

PITTSBURGH STEEL PRODUCTS CO.  
PITTSBURGH PA.

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PITTSBURGH STANDARDIZED  
REINFORCEMENT

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L. H. Miller

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DESCRIPTION  
AND  
SPECIFICATIONS  
OF  
Pittsburgh Standardized  
Reinforcement.

PITTSBURGH STEEL PRODUCTS COMPANY  
FRICK BUILDING  
PITTSBURGH, PA.

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## Description of Reinforcement

### BEAMS AND GIRDERS:

PITTSBURGH STANDARDIZED REINFORCEMENT for Beams and Girders represents a complete Unit Frame of Steel Bars, consisting of one or two bottom bars and one top bar at the end of each frame rigidly connected by means of Shear Bars electrically welded thereto. The bottom bars represent the reinforcement required for positive tension and are spaced with a clearance of  $\frac{1}{2}$  inch between them. The upper bottom bar is cut off at the correct theoretical point where the area is not required for tension; the lower bottom bar extends the full length of the frame. The top bars at each end of the frame are of length sufficient for the attachment thereto of all shear bars and extend a sufficient distance beyond the end of frame in order to develop the full strength of the bar. The top bar represents the area of steel provided for negative tension and has a cross section of at least 25 per cent of total area of the bottom bars. The distance between the top bar and the bottom pair of bars is such as to place the top bar in the center of the floor slab. The shear bars are inclined at an angle of 45 degrees and are placed in the correct theoretical position required to provide for all diagonal tension arising from the shearing stresses in the beam or girder. The shear bars are electrically welded to the bottom bars and the top bar. The area of the weld exceeds by 50 per cent the cross section of the shear bar.

## CROSS SECTION AND AREAS:

The cross section of the main bars of the Unit Frame approximates that of a square bar and has upon its one face two longitudinal ribs  $\frac{1}{8}$ " high and 3-16" wide at the bottom, extending the full length of bar. These ribs furnish the weld contact for the shear bars. The Shear Bars are flat with two ribs, as described above, upon its face, for the purpose of weld contact. The Main Bars are rolled in 17 sizes, equivalent in area to square bars from  $\frac{1}{2} \times \frac{1}{2}$  inches to  $1\frac{1}{2} \times 1\frac{1}{2}$  inches. The manufactured standard frames will be 34 in number, made up of various combinations of bars and of such length as to meet all requirements of building construction. Shear Bars are  $\frac{1}{8}$ " to  $\frac{1}{4}$ " in thickness and vary in width from  $\frac{1}{2}$ " to  $1\frac{1}{2}$ ".

## SLABS:

PITTSBURGH STANDARDIZED REINFORCEMENT for Slabs consists of a mesh-work of V-shaped strips of flat steel in one direction, and of strands of wire at right angles thereto electrically welded at all intersections. The V-shaped strips are formed by bending a flat strap at  $90^\circ$  along its middle line. The straps vary in original width from  $\frac{1}{2}$ " to  $1\frac{1}{2}$ " and in thickness from No. 11 to No. 20 gauge. The straps are laid four inches apart, with trough up, upon a set of spacer wires 10" apart. The V-shaped strip represents the main bar of the Reinforcement. The transverse wires are for the purpose of keeping the main bars at the correct distances center to center, as well as to prevent the formation of shrinkage cracks parallel to the main reinforcement and help to distribute any concentrated loads which may come upon the floor slab. The Reinforcement will be made into

flat sheets of varying widths from 4 feet upward, and lengths of 12, 14, 16, 18 and 20 feet.

### **MATERIAL:**

The material for PITTSBURGH STANDARDIZED REINFORCEMENT is Medium Basic Open Hearth Steel of Special formula from the Pittsburgh Steel Company, of which the Pittsburgh Steel Products Company is a subsidiary. The steel will have chemical and physical properties in conformity with the following limits:

Phosphorus, maximum, 0.06 per cent

Ultimate Tensile Strength, 60,000 to 70,000 lbs. (pounds per square inch)

Elastic Limit, minimum, U. T. S. div. by 2 (pounds per square inch)

Elongation, minimum, 1,400,000 lbs. div. by U. T. S. per cent in 8 inches.

Cold bend without fracture:  $180^{\circ}d=1t$ .

### **MILL TESTS:**

The Pittsburgh Steel Company is provided with laboratories amply equipped with every facility for conduct of all physical and chemical tests of steel after the most approved methods of modern practice.

### **SPECIFICATIONS.**

#### **DESIGN, LOADS and UNIT STRESSES.**

##### **GENERAL:**

PITTSBURGH STANDARDIZED REINFORCEMENT shall be used in reinforced concrete construction as the principal metal reinforcement to resist all tensile stresses in structures and structural forms arising from the influence of dead, live and other loads to which such structures may be subjected. The loads, unit stresses and other general assumptions governing the design, calculation and use of this metal

reinforcement shall be as hereinafter stated.

### **LOADS:**

The loads or forces to be resisted shall consist first, of a Dead Load, which includes the weight of the structure and all fixed loads and forces; second, of a Live Load, or the loads and forces which are variable.

### **LENGTH OF BEAMS:**

The span length for beams and slabs shall be taken as the distance from center to center of supports.

### **INTERNAL STRESSES:**

The basis for calculations relating to the strength of structures shall be in accordance with the assumptions recommended by the Joint Committee on Concrete American Society for Testing Materials, American Railway Engineering and Maintenance of Way Association, and American Portland Cement Manufacturers, which in part are as follows:

1. Calculation shall be made with reference to working stresses and safe load.
2. A Plane Section before bending remains plane after bending.
3. The distribution of compressive stresses in beams is rectilinear.
4. Tensile stresses in concrete shall be neglected in calculating the moment of resistance of beams.
5. Perfect adhesion is assumed between concrete and reinforcement. Under compressive stresses the two materials are stressed in proportion to their moduli of elasticity.
6. The ratio of the modulus of elasticity of steel to the modulus of elasticity of concrete is taken at 15.

7. Initial stress in the reinforcement due to the contraction or expansion in the concrete shall be neglected.

#### **T BEAMS:**

A portion of the slab in beam, girder and slab construction shall be considered as forming an integral part of beam or girder, as area effective for compression. The width of slab so used shall not exceed twelve times the thickness of the slab. Effective bond shall be provided at the junction of beam and slab. Transverse reinforcement shall be provided in slab to extend well over all beams and girders.

#### **FLOOR SLABS:**

Floor slabs shall be designed and reinforced as continuous over the support. In case the length of the slab exceeds 1.5 times its width, the entire load shall be carried by transverse reinforcement. Square slabs shall be reinforced in both directions.

#### **CONTINUOUS BEAMS AND SLABS:**

All beams or slabs, continuous over their supports, shall have a metal reinforcement so placed as to fully provide for all stresses arising at points of negative moment. In computing the positive and negative moment in such beams or slabs, due to uniformly distributed loads, the following rule shall govern:

That for floor slabs and beams the bending moments at center and support shall be taken as  $1/10 wl^2$  for both dead and live loads, where  $w$  represents the load per square foot of floor area and  $l$  the span length in feet in the case of continuous beams and slabs. In the case of beams and



slabs continuous for two spans only, spans of unusual length, and in case of concentrated loads, exact calculation shall be made for both the dead and live load. The tensile and compressive reinforcements over the support for continuous beams shall extend sufficiently beyond the support to develop the requisite bond strength.

### **SHEAR AND DIAGONAL TENSION:**

Calculation for web resistance shall be made on the basis of maximum shearing stress as determined by the formulas hereinafter referred to. Rigidly attached and stable metal reinforcement shall be provided at points in the web to carry the diagonal stresses where the maximum shearing stresses exceed the value allowed for concrete alone. The web reinforcement inclined at an angle of  $45^\circ$  shall be rigidly attached to the horizontal reinforcement of the top and bottom of the beam in order to insure absolutely against slip of inclined members. The requisite amount of such reinforcement shall be estimated on the assumption that the entire shear on a section, less the amount assumed to be carried by the concrete, shall be carried by the reinforcement in a length of beam not exceeding the depth of the beam. The longitudinal spacing of web reinforcement shall not exceed three-fourths the depth of the beam.

### **DEFLECTION:**

Deflection of slabs or beams shall not exceed  $1/500$ th of the span. The basis of calculation of deflection shall be by formulas derived from the general assumptions governing the deflection of homogeneous beams together with the assumptions of

$1/10 wl^2$  for bending moment and the entire neglect of tension in concrete.

### UNIT STRESSES:

The following unit stresses shall be assumed in the calculations of size, strength and depth for all frames and slabs of PITTSBURGH STANDARDIZED REINFORCEMENT.

Compression in Extreme fiber for Concrete=650 lbs. per square inch.

Shear in Concrete for reinforced section=75 lbs. per square inch.

Bond Stress=80 lbs. per square inch.

Tensile Stress for Steel=16000 lbs. per square inch.

### FORMULAS:

The formulas employed in calculations above referred to shall be the same as recommended by "A Joint Committee on Concrete" of the American Society of Civil Engineers, American Society for Testing Materials, American Railway Engineering and Maintenance of Way Association and Association of American Portland Cement Manufacturers.

TRADE MARK



REGISTERED

# BLUE BOOK

*Containing*

INFORMATION AND TABLES  
RELATIVE TO THE USE OF

PITTSBURGH STANDARDIZED  
REINFORCEMENT  
FOR CONCRETE



*For Architects, Engineers  
and Builders*

PITTSBURGH  
STEEL PRODUCTS COMPANY  
PITTSBURGH, PA.

BLANK BOOK

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Pittsburgh Steel Products Co.  
Pittsburgh, Pennsylvania

## Preface

The Blue Book of the Pittsburgh Steel Products Company has been prepared to enable engineers, architects and builders to design concrete structures in accordance with sound theory and the best practice and without laborious mathematical computations. The girder, beam and slab tables have been computed so that under dead and live load and figured on the basis of the "Straight Line Formula," the tensile stress in the steel will not exceed 16,000 pounds per square inch, and the compressive stress in the concrete will not exceed 650 pounds per square inch.

The bending moments at the middle of the beams were taken at  $\frac{1}{10} wl^2$  for both dead and live loads, and all reinforcing frames designed with at least 25 per cent. as much steel over the supports as at the middle.

All tables have been prepared using formulas recommended by "A Joint Committee on Concrete" of the American Society of Civil Engineers, American Society for Testing Materials, American Railway Engineering and Maintenance of Way Association and Association of American Portland Cement Manufacturers.

The Blue Book presents data especially applicable to Pittsburgh Standardized Rein-

forcement and other information useful in general design.

The Pittsburgh Standardized Reinforcement offers an efficient system of design requiring practically no drafting details, and the Blue Book reduces the amount of mathematical computations to a minimum.

The Standardization of Reinforced Concrete construction has been made possible by the development of the Pittsburgh system of reinforcement, and this standardization permitted the making of the Blue Book containing for designers of reinforced concrete such information as is contained in standard hand books on structural steel and without which the design of steel structures would be so tedious as to be almost prohibitive.

PITTSBURGH STEEL PRODUCTS COMPANY

WM. BARCLAY PARSONS  
CONSULTING ENGINEERS  
32 WALL STREET NEW YORK

WM. BARCLAY PARSONS,  
EUGENE KLAPP,  
A. H. BRINCKERHOFF  
W. J. DOVELAR.

June 1, 1910.

Wallace H. Rowe, Esq., President,  
Pittsburg Steel Products Company,  
Frick Building,  
Pittsburg, Pa.

Dear Sir:

THIS IS TO CERTIFY that I have had complete supervision of the tables, drawings and specifications shown in this Hand Book, and of the tests determining the efficiency of the Basic Open- Hearth Steel Beams and Girders for the Reinforcement of Concrete, as adopted by the Pittsburg Steel Products Company.

The necessary tests have been made by the United States Government Bureau of Standards at Washington, which show that the welds develop the full strength of shear bars.

This system is economical of metal and possesses the great advantage of rigidly attached members which cannot become displaced during erection, thereby insuring the position of the various members in their true theoretical positions.

As the depths of the frames and the positions of the shear bars can be varied to suit the requirements of accepted practice, the system is general in its application.

Very truly yours,

*Wm. Barclay Parsons.*

WBP/N



## Standard Reinforcement for Beams and Girders

Concrete beams or girders should be reinforced with from one to four frames of the type shown on page 14.

Each frame is manufactured as a complete unit with the shear bars inclined at 45 degrees with the horizontal. The bottom reinforcement of each frame usually consists of two bars of the cross sections shown on pages 11, 12 and 13, placed one above the other with a clearance between them of one-half inch, but for certain light loads frames with only a single bottom bar are used. The shear bars are electrically welded to the bottom bars and to a top bar having a cross section of at least 25 per cent. of the total area of the bottom bars.

The shear bars are placed in their correct theoretical positions and extend to the middle of the slab. The welding of the shear bars to a top bar prevents the slipping of the shear bars which will take place even when the shear bars extend to the middle of the slab if a positive anchorage is not provided.

The top bars extend a sufficient distance beyond the support in order to develop the full strength of the bars to prevent the formation of shrinkage and tension cracks over the supports and to permit the safe computation of the bending moments on the basis of

$\frac{1}{10} wl^2$  for both dead and live loads. The upper bottom bar is cut off at the correct theoretical point so as to prevent a waste of material, which results when the same cross section of metal extends for the full length of the beam or girder.

Shear bars are usually of from  $\frac{1}{8}$  inch x  $\frac{1}{2}$  inch to  $\frac{1}{8}$  inch x  $1\frac{1}{2}$  inches in cross sectional area, spaced from 4 inches on centers at the ends to not exceeding the depth of the frame. Shear bars of any length, in any positions, and electrically welded to the top and bottom bars can be furnished.

Special frames other than those called for in the various tables will be furnished at a small additional charge above that for standard frames.

The total areas of the bottom bars of all frames are given on page 21, and the areas and weights and the precise dimensions of the individual bars are given on page 20. Similar information closely approximate is given on page 11.

All frames are shipped complete, no work being required at the building other than dropping them into place in the forms. The frames can be shipped flat, one upon the other, requiring a minimum amount of space. Spacing clips will be furnished with all frames, definitely locating all reinforcement in its correct position.

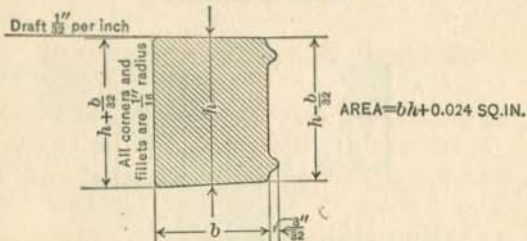
## Standard Slab Reinforcement

Floor slabs should be reinforced with Pittsburgh slab reinforcement shown on page 15, and the areas for which are tabulated on page 23.

This slab reinforcement will be made into sheets having widths of from 4 feet to 6 feet, and lengths not exceeding 20 feet, depending upon the number of beams per length of girder and the distance center to center of beams.

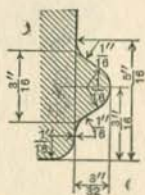
The reinforcing bars consist of flats or bands varying between No. 11 and No. 21 gauges, bent to form angle bars shown on page 15. At intervals of from 6 inches to 12 inches, steel wires are electrically welded to the angle bars to hold them together so as to form sheets of floor reinforcement. These sheets are shipped flat and at the building are laid in place upon the forms with the "valley," turned up. The transverse wires keep the bars at the correct distances center to center, prevent the formation of shrinkage cracks parallel to the main reinforcement and help distribute any concentrated loads which come upon the floor slab.

### Standard Bars



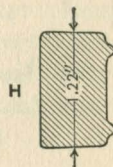
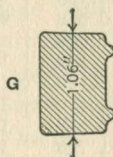
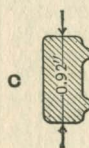
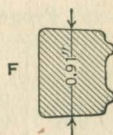
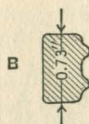
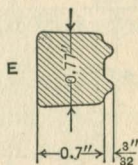
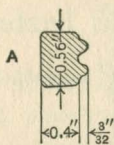
### Properties of Bars

Section	Area Sq. Inches	B Inches	H Inches	Equivalent Square Rod
A	0.250	0.4 = $1\frac{1}{8}$	0.56 = $\frac{9}{16}$	$\frac{1}{2} \times \frac{1}{2}$
B	0.316	0.4 = $1\frac{1}{8}$	0.73 = $\frac{11}{16}$	$\frac{9}{16} \times \frac{9}{16}$
C	0.391	0.4 = $1\frac{1}{8}$	0.92 = $\frac{23}{25}$	$\frac{3}{8} \times \frac{5}{8}$
D	0.473	0.4 = $1\frac{1}{8}$	1.12 = $1\frac{1}{8}$	$\frac{11}{16} \times \frac{11}{16}$
E	0.562	0.7 = $1\frac{1}{2}$	0.77 = $\frac{33}{40}$	$\frac{3}{4} \times \frac{3}{4}$
F	0.660	0.7 = $1\frac{1}{2}$	0.91 = $\frac{19}{20}$	$\frac{13}{16} \times \frac{13}{16}$
G	0.766	0.7 = $1\frac{1}{2}$	1.06 = $1\frac{1}{16}$	$\frac{7}{8} \times \frac{7}{8}$
H	0.879	0.7 = $1\frac{1}{2}$	1.22 = $1\frac{7}{32}$	$\frac{15}{16} \times \frac{15}{16}$
I	1.000	1.0 = 1	0.98 = $\frac{49}{50}$	1 × 1
K	1.129	1.0 = 1	1.10 = $1\frac{11}{64}$	$1\frac{1}{16} \times 1\frac{1}{16}$
L	1.266	1.0 = 1	1.24 = $1\frac{1}{4}$	$1\frac{1}{8} \times 1\frac{1}{8}$
M	1.410	1.0 = 1	1.39 = $1\frac{3}{8}$	$1\frac{3}{16} \times 1\frac{3}{16}$
N	1.562	1.2 = $1\frac{1}{5}$	1.28 = $1\frac{8}{25}$	$1\frac{1}{4} \times 1\frac{1}{4}$
O	1.723	1.2 = $1\frac{1}{5}$	1.42 = $1\frac{21}{50}$	$1\frac{5}{16} \times 1\frac{5}{16}$
P	1.891	1.2 = $1\frac{1}{5}$	1.56 = $1\frac{9}{16}$	$1\frac{3}{8} \times 1\frac{3}{8}$
Q	2.066	1.2 = $1\frac{1}{5}$	1.70 = $1\frac{7}{10}$	$1\frac{7}{16} \times 1\frac{7}{16}$
R	2.250	1.2 = $1\frac{1}{5}$	1.85 = $1\frac{34}{40}$	$1\frac{1}{2} \times 1\frac{1}{2}$

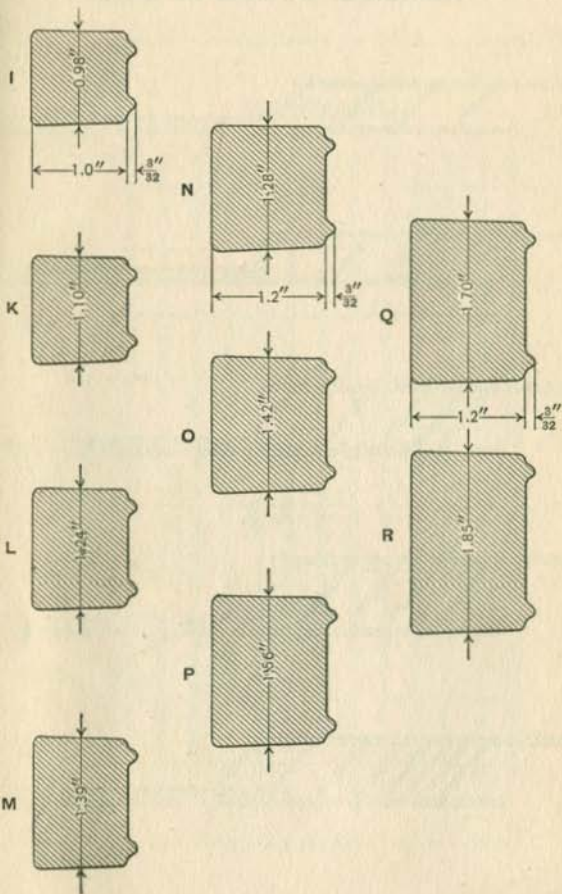


DETAILS OF BEAD.

Standard Bars

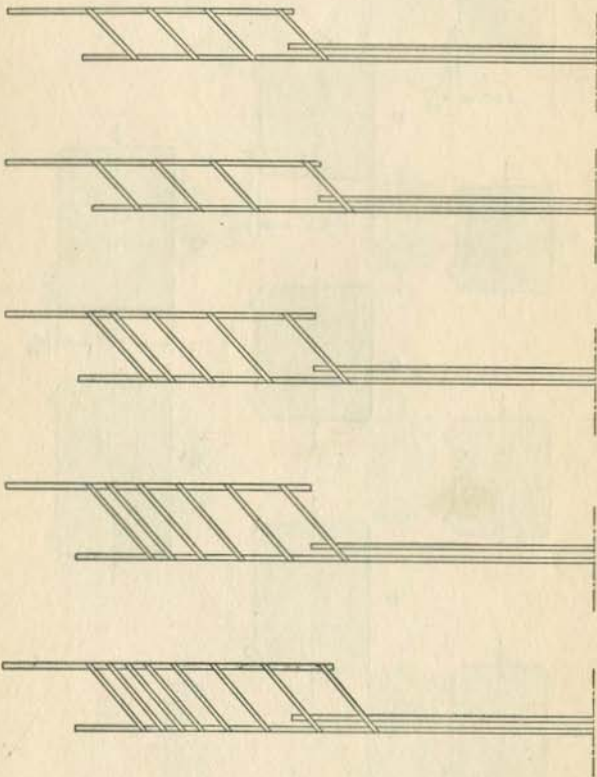


Standard Bars

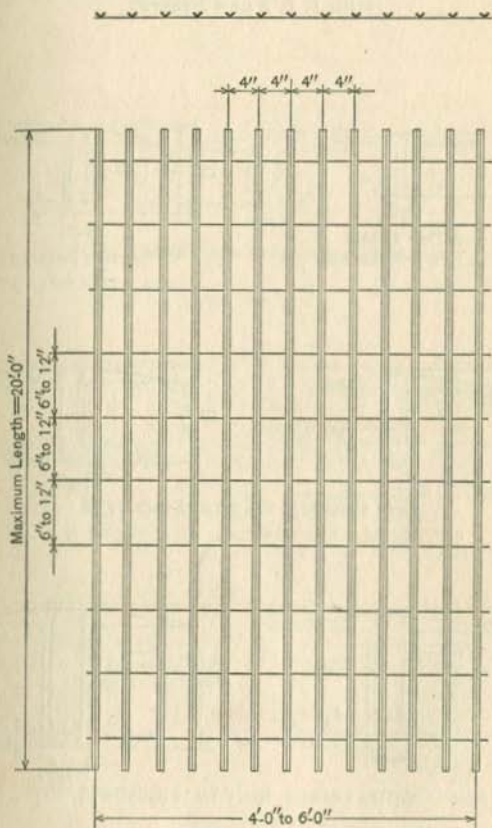


## Typical Frames

Half Lengths of Frames are Shown



## Standard Slab Reinforcement

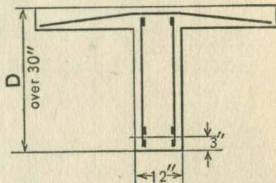
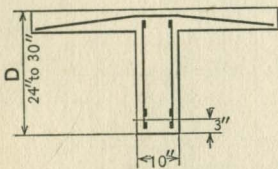
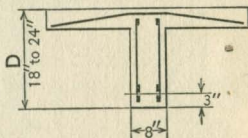
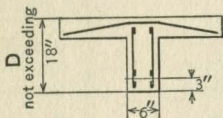
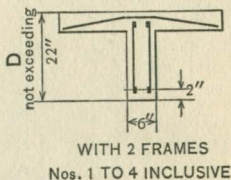
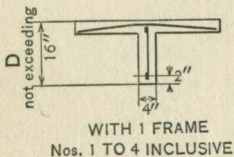




## Dimensions for T-Beams and Girders

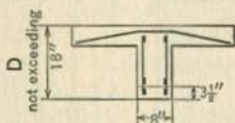
All Beams and Girders are Reinforced

with 1, 2, 3 or 4 Frames

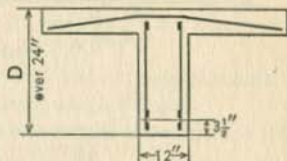
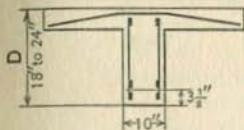


## Dimensions for T-Beams and Girders

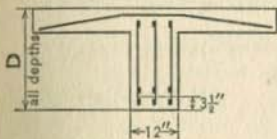
All Beams and Girders are Reinforced  
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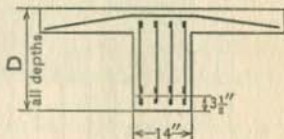
WITH 2 FRAMES Nos. 19 TO 34 INCLUSIVE



WITH 2 FRAMES Nos. 19 TO 34 INCLUSIVE

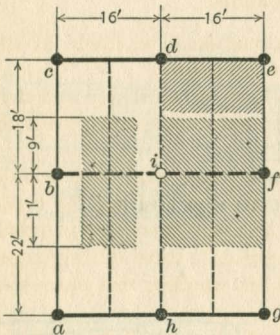


WITH 3 FRAMES

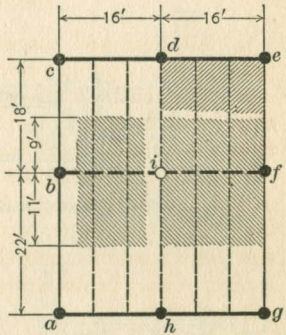


WITH 4 FRAMES

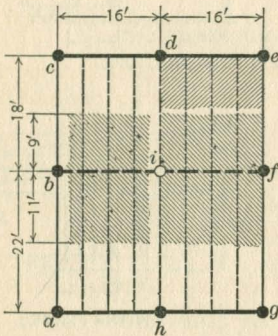
## Typical Framing Plans of Beams and Girders



TYPE A



TYPE B



TYPE C

- Marginal Girder
- - - Interior Girder
- Marginal Beam
- - - Interior Beam
- Marginal Column
- Interior Column

**All Steel Reinforcement will Conform to the  
Manufacturers' Standard Specifications  
for Medium Open Hearth Steel\***

**Specifications**

1. All tests and inspections shall be made at the place of manufacture prior to shipment.

2. The tensile strength, limit of elasticity and ductility, shall be determined from a standard test piece cut from the finished material.

Two test pieces shall be taken from each melt or blow of finished material, one for tension and one for bending; but in case either test develops flaws, or the tensile test piece breaks outside the middle third of its gauged length, it may be discarded and another test piece substituted therefor.

3. Every finished piece of steel shall be stamped with the blow or melt number.

4. Finished bars shall be free from injurious seams, flaws or cracks, and have a workmanlike finish.

5. The amount of phosphorous shall not exceed 0.10 per cent.

6. Ultimate strength, 60,000 to 70,000 pounds per square inch. Elastic limit, not less than one-half the ultimate strength.

$$\text{Percentage of elongation} = \frac{1,400,000}{\text{Ultimate strength}}$$

Bending test, 180 degrees to a diameter equal to thickness of piece tested, without fracture on outside of bent portion.

For each increase of  $\frac{1}{8}$  inch in thickness above  $\frac{3}{4}$  inch, a deduction of 1 per cent. shall be made from the specified elongation, except that the minimum elongation shall be 18 per cent.

\* Floor slab reinforcement of high carbon steel will be furnished if requested.

## Weights and Areas of Standard Bars

Name of Bar	Height of Bar Inches	Width of Bar Inches	Area in Square Inches	Weight in Lbs. per Lineal Foot
A	0.547	0.400	0.2500	0.850
B	0.712	0.400	0.3164	1.076
C	0.899	0.400	0.3906	1.328
D	1.104	0.400	0.4727	1.607
E	0.745	0.700	0.5625	1.913
F	0.885	0.700	0.6602	2.245
G	1.036	0.700	0.7656	2.603
H	1.197	0.700	0.8789	2.988
J	0.959	1.000	1.0000	3.400
K	1.088	1.000	1.1289	3.888
L	1.225	1.000	1.2656	4.303
M	1.369	1.000	1.4102	4.795
N	1.268	1.200	1.5625	5.313
O	1.402	1.200	1.7227	5.857
P	1.542	1.200	1.8906	6.428
Q	1.688	1.200	2.0664	7.026
R	1.841	1.200	2.2500	7.650

The width does not include the beads to which the shear bars are welded.

## Total Area of Bottom Bars of Standard Frames

Number of Frame	Bottom Bars Used in Frame	Area in Square Inches			
		1 Frame	2 Frames	3 Frames	4 Frames
1	A	0.2500	0.5000	. . .	. . .
2	B	0.3164	0.6328	. . .	. . .
3	C	0.3906	0.7812	. . .	. . .
4	D	0.4727	0.9454	. . .	. . .
5	A and A	0.5000	1.0000	. . .	. . .
6	A and B	0.5664	1.1328	. . .	. . .
7	B and B	0.6328	1.2656	. . .	. . .
8	B and C	0.7070	1.4140	. . .	. . .
9	C and C	0.7812	1.5624	. . .	. . .
10	C and D	0.8633	1.7266	. . .	. . .
11	D and D	0.9454	1.8908	. . .	. . .
12	E and E	1.1250	2.2500	. . .	. . .
13	E and F	1.2227	2.4454	. . .	. . .
14	F and F	1.3204	2.6408	. . .	. . .
15	F and G	1.4258	2.8516	. . .	. . .
16	G and G	1.5312	3.0624	. . .	. . .
17	G and H	1.6445	3.2890	. . .	. . .
18	H and H	1.7578	3.5156	. . .	. . .
19	J and J	2.0000	4.0000	6.0000	8.0000
20	J and K	2.1289	4.2578	6.3867	8.5156
21	K and K	2.2578	4.5156	6.7734	9.0312
22	K and L	2.3945	4.7890	7.1835	9.5780
23	L and L	2.5312	5.0624	7.5936	10.1248
24	L and M	2.6758	5.3516	8.0274	10.7032
25	M and M	2.8204	5.6408	8.4612	11.2816
26	N and N	3.1250	6.2500	9.3750	12.5000
27	N and O	3.2852	6.5704	9.8556	13.1408
28	O and O	3.4454	6.8908	10.3362	13.7816
29	O and P	3.6133	7.2266	10.8399	14.4532
30	P and P	3.7812	7.5624	11.3436	15.1248
31	P and Q	3.9570	7.9140	11.8710	15.8280
32	Q and Q	4.1328	8.2656	12.3984	16.5312
33	Q and R	4.3164	8.6328	12.9492	17.2656
34	R and R	4.5000	9.0000	13.5000	18.0000

## Factors and Constants for Determining Approximate Weight of any Frame

No. of Frame	A	Spans		
		Under 12'-6"	12'-6" to 20'-0"	Over 20'-0"
		B	B	B
1	1.275	5.0	5.0	5.0
2	1.501	5.0	5.0	5.0
3	1.753	5.0	5.0	5.0
4	2.031	5.0	5.0	5.0
5	1.700	5.0	5.0	5.0
6	1.928	5.0	5.0	5.0
7	2.040	5.0	5.0	5.0
8	2.291	5.0	5.0	5.0
9	2.417	5.0	5.0	5.0
10	2.697	5.0	5.0	5.0
11	2.839	5.0	5.0	5.0
12	3.347	9.3	9.3	9.3
13	3.721	9.3	9.3	9.3
14	3.929	10.4	9.7	9.7
15	4.338	12.6	9.9	9.9
16	4.555	14.0	10.3	10.3
17	5.004	16.2	10.5	10.5
18	5.229	18.5	10.8	10.8
19	5.950	25.8	15.8	13.1
20	6.441	29.2	18.2	13.5
21	6.717	31.7	20.7	14.0
22	7.246	35.1	23.1	16.1
23	7.530	38.6	26.6	18.6
24	8.097	42.1	29.1	21.1
25	8.391	45.6	32.6	23.6
26	9.298	13.3	42.3	32.3
27	9.890	14.0	46.0	36.0
28	10.250	14.6	49.6	39.6
29	10.870	15.3	54.3	43.3
30	11.249	16.0	58.0	47.0
31	11.910	16.8	62.8	51.8
32	12.296	17.6	66.6	55.6
33	12.990	18.3	71.3	60.3
34	13.390	19.1	76.1	64.1

The approximate weight of a frame in pounds =  $A \times L + B$ ,  
in which  $L$  = span in feet.

Area of Steel in Square Inches per Lineal Foot of Slab for Pittsburgh Standard Slab Reinforcement



No. of Fabric	Width of Bar Inches	Thick-ness Gauge No. *	Area Square Inches	No. of Fabric	Width of Bar Inches	Thick-ness Gauge No. *	Area Square Inches
1	½	21	0.048	20	½	11	0.180
2	½	20	0.053	21	1	16	0.189
3	½	19	0.062	22	¾	12	0.197
4	¾	20	0.066	23	1¼	17	0.203
5	½	18	0.071	24	1	15	0.216
6	¾	19	0.077	25	¾	11	0.225
7	½	17	0.081	26	1½	17	0.243
8	¾	18	0.088	27	1¼	15	0.270
9	½	16	0.095	28	1½	16	0.284
10	¾	17	0.101	29	1¼	14	0.300
11	½	15	0.108	30	1	12	0.315
12	¾	16	0.118	31	1½	15	0.324
13	1	19	0.123	32	1¼	13	0.345
14	¾	15	0.135	33	1	11	0.360
15	1	18	0.141	34	1¼	12	0.394
16	¾	14	0.150	35	1½	13	0.414
17	½	12	0.158	36	1¼	11	0.450
18	1	17	0.162	37	1½	12	0.473
19	¾	13	0.173	38	1½	11	0.540

\*Gauge of Pittsburgh Steel Company. All bars 4 inches center to center.



Area of Steel in Square Inches per Lineal  
Foot of Slab for Round Bars  $\bigcirc$   
Spaced at Various Intervals

Spacing of Bars Inches	Diameter of Bars, Inches							
	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{3}{8}$
3	0.308	0.440	0.600	0.784	0.992	1.228	1.484	1.768
3½	0.264	0.378	0.514	0.672	0.850	1.052	1.272	1.516
4	0.231	0.330	0.450	0.588	0.744	0.921	1.113	1.326
4½	0.206	0.294	0.400	0.522	0.662	0.818	0.990	1.178
5	0.185	0.264	0.360	0.470	0.595	0.737	0.890	1.061
5½	0.168	0.240	0.328	0.428	0.542	0.670	0.810	0.964
6	0.154	0.220	0.300	0.392	0.496	0.614	0.742	0.884
6½	0.142	0.203	0.277	0.362	0.458	0.567	0.685	0.816
7	0.132	0.189	0.257	0.336	0.425	0.526	0.636	0.758
7½	0.123	0.176	0.240	0.314	0.397	0.491	0.594	0.707
8	0.115	0.165	0.225	0.294	0.372	0.460	0.556	0.663
8½	0.109	0.155	0.212	0.277	0.350	0.433	0.524	0.624
9	0.103	0.147	0.200	0.261	0.331	0.409	0.495	0.589
9½	0.097	0.139	0.189	0.248	0.313	0.388	0.469	0.558
10	0.092	0.132	0.180	0.235	0.298	0.368	0.445	0.530
10½	0.088	0.126	0.171	0.224	0.283	0.351	0.424	0.505
11	0.084	0.120	0.164	0.214	0.271	0.335	0.405	0.482
11½	0.080	0.114	0.156	0.204	0.259	0.320	0.387	0.461
12	0.077	0.110	0.150	0.196	0.248	0.307	0.371	0.442

**Area of Steel in Square Inches per Lineal Foot  
of Slab for Square Bars  $\square$  Spaced  
at Various Intervals**

Spacing of Bars Inches	Thickness of Bars, Inches							
	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$\frac{1}{4}$
3	0.392	0.564	0.764	1.000	1.266	1.564	1.891	2.248
3½	0.336	0.484	0.654	0.858	1.084	1.340	1.622	1.926
4	0.294	0.423	0.573	0.750	0.948	1.173	1.419	1.686
4½	0.262	0.376	0.510	0.666	0.842	1.042	1.260	1.498
5	0.235	0.338	0.458	0.600	0.758	0.938	1.135	1.349
5½	0.214	0.308	0.416	0.546	0.690	0.854	1.032	1.226
6	0.196	0.282	0.382	0.500	0.632	0.782	0.946	1.124
6½	0.181	0.260	0.353	0.462	0.583	0.722	0.873	1.038
7	0.168	0.242	0.327	0.429	0.542	0.670	0.811	0.963
7½	0.157	0.226	0.306	0.400	0.506	0.626	0.757	0.900
8	0.147	0.212	0.287	0.375	0.474	0.587	0.710	0.843
8½	0.138	0.199	0.270	0.353	0.446	0.552	0.668	0.793
9	0.131	0.188	0.255	0.333	0.421	0.521	0.630	0.749
9½	0.124	0.178	0.241	0.316	0.399	0.494	0.597	0.710
10	0.118	0.169	0.229	0.300	0.379	0.469	0.568	0.674
10½	0.112	0.161	0.218	0.286	0.361	0.447	0.541	0.642
11	0.107	0.154	0.208	0.273	0.345	0.427	0.516	0.613
11½	0.102	0.147	0.199	0.261	0.330	0.408	0.494	0.586
12	0.098	0.141	0.191	0.250	0.316	0.391	0.473	0.562

## Explanation of Tables of Widths of Rectangular and T-Beams Developed by a Single Frame

To determine the width of a rectangular beam developed by a single frame, enter the tables on pages 27 to 30 inclusive. These tables have been prepared for a net depth of beam in inches—that is, for the total depth minus the distance from the plane of the bottom steel to the bottom of the beam concrete.

**Example.** Determine the width of a rectangular beam 20 inches deep, developed by two No. 15 frames. The net depth of beam (see page 16) equals  $20 - 3 = 17$  inches. Entering the table with this net depth (page 28), the width in inches developed by one No. 15 frame is 10.9 inches. Two frames will therefore develop  $2 \times 10.9 = 21.8$  inches.

To find the width of T-beam developed by a single frame, first find the width of rectangular beam developed by same frame, then enter table of modifying factors for T-beams (page 31) and select a factor based upon the net depth of T-beam and the thickness of slab. Multiply the rectangular width by this factor and the result is the desired width of T-beam.

**Example.** Determine the width of a T-beam with a 4-inch slab developed by two No. 15 frames. The width of rectangular beam developed by the two frames (see preceding examples) is 21.8 inches. Enter table on page 31 and the factor for a 4-inch slab and a net depth of beam of 17 inches is 1.17. Therefore the width of T-beam developed by two No. 15 frames is  $1.17 \times 21.8 = 25.5$  inches.

These tables may be used for widths of T-girders developed by a single frame. They are particularly useful in the design of L-beams and in determining the width of a T-girder for combination concrete and tile floors.

PITTSBURGH STEEL PRODUCTS COMPANY

Width in Inches of Rectangular Beams  
Developed by a Single Frame

Net Depth d Inches	Number of Frame								
	1	2	3	4	5	6	7	8	9
4½	7.2	9.1	11.3	13.7	14.4	16.3	18.2	20.4	22.6
5	6.5	8.2	10.2	12.3	13.0	14.7	16.4	18.4	20.4
6	5.4	6.9	8.5	10.2	10.8	12.4	13.8	15.4	17.0
7	4.6	5.9	7.3	8.8	9.3	10.5	11.8	13.1	14.5
8	4.1	5.1	6.3	7.7	8.2	9.2	10.2	11.4	12.6
9	3.6	4.6	5.6	6.8	7.2	8.2	9.2	10.2	11.3
10	3.3	4.1	5.1	6.1	6.5	7.4	8.2	9.2	10.2
11	. .	3.8	4.6	5.6	5.9	6.7	7.5	8.1	9.2
12	. .	3.4	4.2	5.1	5.4	6.2	6.9	7.7	8.5
13	. .	. .	3.9	4.8	5.0	5.7	6.3	7.1	7.8
14	. .	. .	3.7	4.4	4.7	5.3	5.9	6.6	7.3
15	. .	. .	3.4	4.1	4.3	4.9	5.5	6.1	6.8
16	. .	. .	. .	3.9	4.1	4.6	5.1	5.7	6.3
17	. .	. .	. .	3.6	3.8	4.3	4.8	5.4	6.0
18	. .	. .	. .	3.4	3.6	4.1	4.6	5.1	5.7
19	. .	. .	. .	. .	3.4	3.9	4.3	4.8	5.4
20	. .	. .	. .	. .	. .	3.7	4.1	4.6	5.1
21	. .	. .	. .	. .	. .	3.5	3.9	4.3	4.8
22	. .	. .	. .	. .	. .	. .	3.7	4.1	4.6
23	. .	. .	. .	. .	. .	. .	3.6	3.9	4.4
24	. .	. .	. .	. .	. .	. .	3.4	3.8	4.2
25	. .	. .	. .	. .	. .	. .	. .	3.7	4.1
26	. .	. .	. .	. .	. .	. .	. .	3.5	3.9
27	. .	. .	. .	. .	. .	. .	. .	. .	3.8
28	. .	. .	. .	. .	. .	. .	. .	. .	3.6
29	. .	. .	. .	. .	. .	. .	. .	. .	3.5
30	. .	. .	. .	. .	. .	. .	. .	. .	3.4

PITTSBURGH STEEL PRODUCTS COMPANY

Width in Inches of Rectangular Beams  
Developed by a Single Frame

Net Depth d Inches	Number of Frame								
	10	11	12	13	14	15	16	17	18
4½	25.0	27.4	32.6	35.4	38.2	. .	. .	. .	. .
5	22.5	24.6	29.0	31.8	34.4	37.1	. .	. .	. .
6	18.7	20.4	24.4	26.5	28.6	30.9	33.2	35.6	. .
7	16.0	17.6	20.9	22.7	24.6	26.5	28.4	30.5	32.6
8	14.0	15.4	18.2	19.8	21.4	23.1	24.8	26.7	28.6
9	12.5	13.7	16.3	17.7	19.1	20.6	22.1	23.8	25.4
10	11.2	12.2	14.6	15.9	17.0	18.6	20.0	21.4	22.8
11	10.2	11.2	13.3	14.5	15.6	16.9	18.1	19.4	20.8
12	9.4	10.2	12.2	13.3	14.3	15.5	16.6	17.8	19.0
13	8.6	9.5	11.3	12.2	13.2	14.3	15.3	16.5	17.6
14	8.0	8.8	10.5	11.4	12.3	13.3	14.2	15.2	16.3
15	7.5	8.2	9.8	10.6	11.5	12.4	13.3	14.3	15.2
16	7.0	7.7	9.1	9.9	10.7	11.6	12.4	13.4	14.3
17	6.7	7.2	8.6	9.4	10.1	10.9	11.7	12.6	13.4
18	6.3	6.9	8.2	8.9	9.6	10.3	11.1	11.9	12.7
19	5.9	6.5	7.7	8.4	9.0	9.8	10.5	11.3	12.0
20	5.6	6.1	7.3	8.0	8.5	9.3	10.0	10.7	11.4
21	5.4	5.9	7.0	7.6	8.2	8.8	9.5	10.2	10.9
22	5.1	5.6	6.7	7.3	7.8	8.4	9.1	9.7	10.4
23	4.9	5.4	6.4	6.9	7.5	8.1	8.7	9.3	9.9
24	4.7	5.1	6.1	6.7	7.2	7.8	8.3	8.9	9.5
25	4.5	4.9	5.9	6.4	6.9	7.4	8.0	8.6	9.1
26	4.3	4.7	5.7	6.1	6.6	7.2	7.7	8.3	8.8
27	4.2	4.6	5.4	5.9	6.4	6.9	7.4	7.9	8.5
28	4.0	4.4	5.2	5.7	6.2	6.7	7.1	7.7	8.2
29	3.8	4.2	5.1	5.5	5.9	6.4	6.9	7.4	7.8
30	3.7	4.1	4.9	5.3	5.7	6.2	6.6	7.2	7.6

PITTSBURGH STEEL PRODUCTS COMPANY

Width in Inches of Rectangular Beams  
Developed by a Single Frame

Net Depth d Inches	Number of Frame								
	19	20	21	22	23	24	25	26	27
4½	. .	. .	. .	. .	. .	. .	. .	. .	. .
5	. .	. .	. .	. .	. .	. .	. .	. .	. .
6	. .	. .	. .	. .	. .	. .	. .	. .	. .
7	37.2	. .	. .	. .	. .	. .	. .	. .	. .
8	32.6	34.6	36.6	. .	. .	. .	. .	. .	. .
9	28.8	30.7	32.6	34.6	36.6	. .	. .	. .	. .
10	26.0	27.7	29.4	31.2	33.0	34.8	36.6	. .	. .
11	23.6	25.1	26.6	28.3	30.0	31.7	33.4	37.0	. .
12	21.7	23.1	24.5	26.0	27.4	29.0	30.6	33.9	35.6
13	20.0	21.3	22.6	24.0	25.3	26.8	28.2	31.3	32.9
14	18.6	19.8	21.0	22.3	23.5	24.9	26.2	29.0	31.5
15	17.8	18.5	19.5	20.8	21.9	23.2	24.4	27.1	18.5
16	16.3	17.3	18.3	19.5	20.6	21.8	22.9	25.4	26.7
17	15.3	16.3	17.3	18.4	19.4	20.5	21.6	23.9	25.2
18	14.4	15.4	16.3	17.3	18.3	19.4	20.4	22.7	23.8
19	13.7	14.6	15.5	16.4	17.3	18.3	19.3	21.4	22.5
20	13.0	13.9	14.7	15.6	16.5	17.4	18.3	20.3	21.4
21	12.4	13.2	14.0	14.8	15.6	16.5	17.4	19.3	20.3
22	11.8	12.5	13.3	14.1	15.0	15.8	16.7	18.5	19.4
23	11.3	12.0	12.8	13.5	14.3	15.1	15.9	17.7	18.6
24	10.9	11.5	12.2	13.0	13.7	14.5	15.3	16.9	17.8
25	10.4	11.0	11.7	12.4	13.1	13.9	14.6	16.2	17.1
26	10.0	10.6	11.3	12.0	12.6	13.4	14.1	15.6	16.4
27	9.6	10.3	10.9	11.5	12.2	12.9	13.6	15.1	16.1
28	9.3	9.9	10.5	11.1	11.7	12.4	13.1	14.5	15.7
29	8.9	9.5	10.1	10.7	11.3	12.0	12.6	14.0	14.7
30	8.7	9.2	9.7	10.4	10.9	11.6	12.2	13.5	14.2
31	. .	8.9	9.4	10.0	10.6	11.2	11.8	13.1	13.8
32	. .	8.6	9.1	9.7	10.3	10.9	11.4	12.7	13.3
33	. .	8.4	8.9	9.4	10.0	10.5	11.1	12.3	12.9
34	. .	8.1	8.6	9.2	9.7	10.2	10.8	11.9	12.6
35	. .	7.9	8.4	8.9	9.4	10.0	10.5	11.6	12.2
36	. .	7.7	8.1	8.6	9.1	9.7	10.2	11.3	11.9
37	. .	7.5	7.9	8.4	8.9	9.4	9.9	11.0	11.5
38	. .	7.3	7.7	8.2	8.6	9.1	9.6	10.7	11.2
39	. .	7.1	7.5	8.0	8.4	8.9	9.4	10.4	11.0
40	. .	6.9	7.3	7.8	8.2	8.7	9.1	10.1	10.7

PITTSBURGH STEEL PRODUCTS COMPANY

Width in Inches of Rectangular Beams  
Developed by a Single Frame

Net Depth d Inches	Number of Frame						
	28	29	30	31	32	33	34
4½	. .	. .	. .	. .	. .	. .	. .
5	. .	. .	. .	. .	. .	. .	. .
6	. .	. .	. .	. .	. .	. .	. .
7	. .	. .	. .	. .	. .	. .	. .
8	. .	. .	. .	. .	. .	. .	. .
9	. .	. .	. .	. .	. .	. .	. .
10	. .	. .	. .	. .	. .	. .	. .
11	. .	. .	. .	. .	. .	. .	. .
12	37.3	. .	. .	. .	. .	. .	. .
13	34.5	36.2	. .	. .	. .	. .	. .
14	32.0	33.6	35.1	36.8	. .	. .	. .
15	29.9	31.4	32.8	34.3	35.8	. .	. .
16	28.0	29.4	30.7	32.2	33.6	35.1	36.6
17	26.4	27.7	28.9	30.3	31.6	33.0	34.4
18	24.9	26.1	27.3	28.6	29.9	31.2	32.5
19	23.6	24.8	25.9	27.5	28.3	29.6	30.8
20	22.4	23.5	24.6	25.8	26.9	28.1	29.2
21	21.3	22.3	23.4	24.5	25.6	26.7	27.9
22	20.4	21.3	22.3	23.3	24.4	25.5	26.6
23	19.5	20.4	21.4	22.4	23.4	24.4	25.4
24	18.6	19.6	20.5	21.4	22.4	23.4	24.4
25	17.9	18.8	19.6	20.6	21.5	22.5	23.4
26	17.2	18.1	18.9	19.8	20.6	21.6	22.5
27	16.6	17.4	18.2	19.1	19.9	20.8	21.7
28	16.0	16.8	17.5	18.4	19.2	20.0	20.9
29	15.4	16.2	16.9	17.7	18.5	19.4	20.2
30	14.9	15.7	16.4	17.1	17.9	18.7	19.5
31	14.5	15.2	15.9	16.6	17.3	18.1	18.9
32	14.0	14.7	15.3	16.1	16.8	17.5	18.3
33	13.8	14.2	14.9	15.6	16.3	17.0	17.7
34	13.2	13.8	14.4	15.1	15.8	16.5	17.2
35	12.8	13.4	14.0	14.7	15.4	16.0	16.7
36	12.4	13.0	13.6	14.3	14.9	15.6	16.2
37	12.1	12.7	13.3	13.9	14.5	15.2	15.8
38	11.8	12.4	12.9	13.7	14.1	14.8	15.4
39	11.5	12.1	12.6	13.5	13.8	14.4	15.0
40	11.2	11.7	12.3	12.9	13.4	14.0	14.6

## Modifying Factors for Width of T-Beams, Developed by a Single Frame

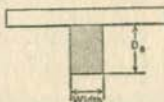
Net Depth d Inches	Total Thickness of Slab in Inches						
	3	3½	4	4½	5	5½	6
9	1.01	. . .	. . .	. . .	. . .	. . .	. . .
10	1.05	1.01	. . .	. . .	. . .	. . .	. . .
11	1.08	1.03	. . .	. . .	. . .	. . .	. . .
12	1.13	1.05	1.01	. . .	. . .	. . .	. . .
13	1.18	1.09	1.04	1.01	. . .	. . .	. . .
14	1.23	1.13	1.07	1.03	. . .	. . .	. . .
15	1.29	1.17	1.10	1.05	1.01	. . .	. . .
16	1.34	1.22	1.13	1.07	1.03	1.01	. . .
17	1.40	1.26	1.17	1.10	1.05	1.02	. . .
18	1.46	1.31	1.21	1.13	1.07	1.04	1.01
19	1.52	1.36	1.25	1.16	1.10	1.06	1.03
20	1.58	1.41	1.29	1.19	1.13	1.08	1.05
21	1.63	1.46	1.33	1.23	1.16	1.10	1.07
22	1.69	1.51	1.37	1.27	1.19	1.13	1.09
23	1.76	1.56	1.41	1.30	1.22	1.16	1.11
24	1.82	1.61	1.45	1.33	1.25	1.18	1.13
25	. . .	1.66	1.50	1.33	1.29	1.21	1.16
26	. . .	1.71	1.54	1.42	1.32	1.24	1.18
27	. . .	1.76	1.59	1.46	1.35	1.27	1.21
28	. . .	1.82	1.63	1.50	1.38	1.30	1.23
29	. . .	. . .	1.68	1.54	1.42	1.33	1.26
30	. . .	. . .	1.72	1.58	1.46	1.36	1.29
31	. . .	. . .	1.77	1.61	1.49	1.39	1.31
32	. . .	. . .	1.82	1.65	1.52	1.42	1.33
33	. . .	. . .	. . .	1.69	1.56	1.46	1.36
34	. . .	. . .	. . .	1.74	1.59	1.49	1.40
35	. . .	. . .	. . .	1.78	1.63	1.52	1.43
36	. . .	. . .	. . .	1.82	1.67	1.55	1.46
37	. . .	. . .	. . .	. . .	1.71	1.59	1.49
38	. . .	. . .	. . .	. . .	1.74	1.62	1.51
39	. . .	. . .	. . .	. . .	1.78	1.65	1.54
40	. . .	. . .	. . .	. . .	1.82	1.68	1.58



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Weight of Concrete in Pounds per Lineal Foot of Web  
or Stem of T-Beams and Girders

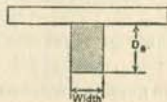
Net Depth D <sub>s</sub> of Web Inches	Width of Web Inches			Net Depth D <sub>s</sub> of Web Inches	Width of Web Inches		
	4	6	8		4	6	8
3.0	12.0	19.5	. .	12.0	49.5	75.0	100.5
3.5	15.0	22.5	. .	12.5	52.5	78.0	103.5
4.0	16.5	25.5	. .	13.0	54.0	81.0	108.0
4.5	18.0	28.5	. .	13.5	. .	84.0	112.5
5.0	21.0	31.5	. .	14.0	. .	87.0	117.0
5.5	22.5	34.5	. .	14.5	. .	90.0	121.5
6.0	25.5	37.5	. .	15.0	. .	94.5	124.5
6.5	27.0	40.5	. .	15.5	. .	97.5	129.0
7.0	28.5	43.5	58.5	16.0	. .	100.5	133.5
7.5	31.5	46.5	63.0	16.5	. .	103.5	138.0
8.0	33.0	49.5	67.5	17.0	. .	106.5	142.5
8.5	36.0	52.5	70.5	17.5	. .	109.5	145.5
9.0	37.5	55.5	75.0	18.0	. .	112.5	150.0
9.5	39.0	60.0	79.5	18.5	. .	115.5	154.5
10.0	42.0	63.0	84.0	19.0	. .	118.5	159.0
10.5	43.5	66.0	87.0	19.5	. .	. . .	162.0
11.0	46.5	69.0	91.5	20.0	. .	. . .	166.5
11.5	48.0	72.0	96.0	20.5	. .	. . .	169.5
				21.0	. .	. . .	172.5



PITTSBURGH STEEL PRODUCTS COMPANY

Weight of Concrete in Pounds per Lineal Foot of Web or Stem of T-Beams and Girders

Net Depth $D_s$ of Web Inches	Width of Web Inches			Net Depth $D_s$ of Web Inches	Width of Web Inches		
	10	12	14		10	12	14
10.0	105.0	124.5	145.5	25.0	261.0	312.0	364.5
10.5	109.5	132.0	153.0	25.5	265.5	318.0	372.0
11.0	114.0	138.0	160.5	26.0	271.5	325.5	379.5
11.5	120.0	144.0	168.0	26.5	276.0	331.5	385.5
12.0	124.5	150.0	175.5	27.0	282.0	337.5	393.0
12.5	130.5	156.0	183.0	27.5	286.5	343.5	400.5
13.0	135.0	162.0	189.0	28.0	291.0	349.5	408.0
13.5	141.0	168.0	196.5	28.5	297.0	357.0	415.5
14.0	145.5	175.5	204.0	29.0	303.0	363.0	423.0
14.5	151.5	181.5	210.5	29.5	307.5	369.5	430.5
15.0	156.0	187.5	219.0	30.0	312.0	375.0	438.0
15.5	162.0	193.5	226.5	30.5	318.0	381.0	444.0
16.0	166.5	199.5	234.0	31.0	322.5	387.0	451.5
16.5	172.5	207.0	240.0	31.5	327.0	393.0	459.0
17.0	177.0	213.0	247.5	32.0	333.0	400.5	466.5
17.5	181.5	219.0	255.0	32.5	339.0	406.5	474.0
18.0	187.5	225.0	262.5	33.0	343.5	412.5	480.0
18.5	193.5	231.0	270.0	33.5	348.0	417.5	489.0
19.0	198.0	237.0	277.5	34.0	354.0	424.5	495.0
19.5	202.5	244.5	285.0	34.5	360.0	432.0	502.5
20.0	208.5	250.5	292.5	35.0	364.5	438.0	510.0
20.5	213.0	256.5	298.5	35.5	369.0	444.0	517.5
21.0	219.0	262.5	306.0	36.0	375.0	450.0	525.0
21.5	223.5	268.5	313.5	36.5	. . .	456.0	532.5
22.0	229.5	274.5	321.0	37.0	. . .	463.5	540.0
22.5	234.0	282.0	328.5	37.5	. . .	469.5	547.5
23.0	240.0	288.0	336.0	38.0	. . .	475.5	555.0
23.5	244.5	294.0	342.0	38.5	. . .	481.5	561.0
24.0	250.0	300.0	349.5	39.0	. . .	487.5	568.5
24.5	255.0	306.0	357.0	39.5	. . .	493.5	576.0
				40.0	. . .	499.5	583.5



## Requisite Floor (Live) Loads from Various Building Laws

Character of Buildings	New York 1906	Philadelphia 1907	San Francisco 1906	Baltimore 1908	Washington 1909
	Pounds per Square Foot				
Dwellings, apartment houses, hotels, tenement houses or lodging houses . . . . .	60	70	60	60	50-75x
Office buildings—first floor . .	150	100	150	150	75-110*
Office buildings—above first floor . . . . .	75	100	75	75	..
Schools or places of instruction . . . . .	75	..	75	75	75
Stables or carriage houses . .	75	..	75	100	..
Buildings for public assembly	90	120	125	75-125xx	..
Buildings for ordinary stores, light manufacturing and light storage . . . . .	120	120	120	125	110
Stores for heavy materials, warehouses and factories .	150	150	250	175-250	200
Roofs—pitch less than 20 degrees . . . . .	50	30	50	40	..
Roofs—pitch more than 20 degrees . . . . .	30	30	30	20	..
Sidewalks . . . . .	300	..	300	200	..

x Dwellings, 50 pounds; hotels, apartment houses and tenements used as dwellings, 50 pounds in private rooms or apartments, and 75 pounds in halls, offices, dining rooms or rooms for public use.

\* Halls, lobbies or other parts for common use of tenants, 110 pounds.

xx With fixed seats, 75 pounds; without fixed seats, 125 pounds.

## Explanation of Beam Tables

Throughout the **Blue Book** T-beams are those which take the slab load direct, and T-girders are those which receive their loads through the T-beams framing into them. The T-beams might be more properly called T-joists.

In order to design reinforced concrete floors, the designer should generally use both the T-beam tables and the T-girder and special T-beam tables.

The T-beam tables have been prepared to enable the user of the **Blue Book** to economically design, without computation, T-beams for all common classes of building floors. The depth of the beams selected in each case are the shallowest consistent with economy, and the stress in the steel reinforcement not exceeding 16,000 pounds per square inch, and that in the concrete not exceeding 650 pounds per square inch, the bending moment at the middle of the beams being taken at  $\frac{1}{10} wl^2$ .

While many engineers and architects permit beams and girders to be figured on the basis of  $\frac{1}{12} wl^2$ , the majority seem of the opinion that this is neither warranted by theory nor experiment. The engineers who prepared the **Blue Book** recommend the general use of  $\frac{1}{10} wl^2$  for beams and girders for the reason that when  $\frac{1}{12} wl^2$  is used the compressive stresses in the stem of the T-beams and girders become excessive.  $\frac{1}{10} wl^2$  is also recommended generally for the design of slabs, although when the same amount of steel is placed over the supports as in the middle of the slab,  $\frac{1}{12} wl^2$  is permissible.

In computing all T-beam and girder tables, the width of the T-flange was not permitted to exceed twelve times the thickness of the slab ( $12t$ ). The spans of the beams were taken as the distances center to center of girders.

## PITTSBURGH STEEL PRODUCTS COMPANY

The tables have been computed for T-beams with slabs from 3 to 6 inches thick, with live loads from 40 to 400 pounds per square foot, for various distances center to center of beams and for spans from 6 to 30 feet. For each distance center to center of beams, at the top of each beam table, are given the necessary areas of slab reinforcement per lineal foot of slab, computed on the basis of  $\frac{1}{10} wl^2$ , the stress in the steel not exceeding 16,000 pounds per square inch. The clear spaces between beams may be used without appreciable error instead of the distances center to center. In the columns marked "D" the necessary total depths of beams in inches are given. In the columns marked "F" the requisite frames are indicated. For instance, on page 60, in the first column of "F's," 1-3 means one No. 3 frame, 2-2 means two No. 2 frames.

Example: To design a 3-inch slab and beam floor for a live load of 100 pounds per square foot, span of beam 20 feet and the distance center to center of beams 5 feet. Entering the table on page 64, the required area of steel per lineal foot of slab is found to be 0.130 square inch, the requisite total depth of beam (including thickness of slab) 15.5 inches, and two No. 12 frames are required. The numbers of the frames referred to in the various tables and the areas of the bottom bars for each frame are given on page 21.

Knowing the necessary area of steel, 0.130 square inch per lineal foot of slab, the area of the steel reinforcement and the spacing in inches may be gotten on pages 23, 24 and 25. Using Pittsburgh standard slab reinforcement, the necessary area will be obtained by  $\frac{3}{8}$ -inch No. 15 gauge bars, spaced 4 inches on centers.

In nearly all the beam tables a portion of each table or page is separated from the remaining portion by heavy full lines. The portion below the heavy horizontal line or lines gives the more economical beams. The heavy vertical line is used to more clearly mark off this

class of beams. The remaining portion of the page contains beams which are not generally economical, but may be necessary in buildings. If no heavy lines of demarcation are used, all beams are economical.

The least economical beams are those which are of such short spans that they might better be omitted entirely, using a thicker slab, or they are beams spaced too close together to develop the available strength of the slab concrete. However, for uniformity of construction in a building, or to better withstand heavy concentrated loads, or where building laws demand lower unit stresses than were used in the computation of these tables (see "Transformation Factors for Various Unit Stresses"), all of the beams given may properly be used.

The designer will usually find the 3 to 5-inch beam tables sufficient for his purpose, the 5½ and 6-inch tables being necessary only in abnormal cases. The 3-inch slab, however, should not generally be used for heavy loads, except by experienced concrete constructors.

Having a distance to span between girders and a given live load to carry, the designer must first decide on the thickness of slab to be used. The following thicknesses in inches are suggested for various loads expressed in pounds per square foot:

Live load, 40 to 100 pounds, slab thickness, 3 or 3½ in.

Live load, 100 to 150 pounds, slab thickness, 3½ or 4 in.

Live load, 150 to 400 pounds, slab thickness, 4 to 5 in.

For floors designed for heavy concentrated loads, it may be desirable to arbitrarily increase these thicknesses by an inch, and when the girders are of long span, there may not be sufficient available flange concrete on the basis of 12t to carry the total imposed load,

in which case the thickness of the slab must be increased or the span of the girder decreased. For instance, if the thickness of slab is 3 inches the span of the girder is 30 feet, span of beams framing into it 20 feet, and the live load is 100 pounds per square foot, it will be seen in what follows that a thicker slab is necessary to provide adequate flange area. Entering the 3-inch beam tables, for a live load of 100 pounds per square foot and spacing the beams 6 feet on centers, the necessary total depth of the beams (page 64) is 15.5 inches and two No. 13 frames are required. The dead load of floor is approximately 50 pounds per square foot, making a total load of 150 pounds per square foot, so that the total load on the girder equals  $150 \times 20 \times 30 = 90,000$  pounds. Now entering the 3-inch T-girder and special T-beam tables, it will be found (page 197) that the heaviest total load which can be carried by a 3-inch slab for a span of 30 feet is 33,000 pounds, and as the tables have been computed so as to develop  $12t$ , a thicker slab must be used.

Having selected a slab thickness, it is economical to space the beams as far apart as possible, in order to use the full value of the slab strength and to reduce the number of T-beam forms. In the last column of center to center distances for each slab thickness and for each live load, the maximum distance center to center of beams is given, based on the strength of the slab and computed for a stress in the steel reinforcement of 16,000 pounds per square inch and based on  $\frac{1}{10} wl^2$ . It is desirable to space the beams as near this maximum distance as possible. For instance, entering the 3-inch beam tables (page 64) the maximum distance center to center of beams for a 100-pound live load will be found to be 6 feet. If the length of the girder center to center of columns is 14 feet, a single beam at the middle of the girder would require the beams to be 7 feet on centers. Therefore, two beams per girder, 4 feet 8 inches on centers, must be used.

Generally, if spacing is selected by the designer which gives beams not in the economical class, it is probable that a thinner slab may be more economical, although on the other hand it may be found that the thicker slab is necessary to give requisite girder flange area.

If the span of the beam is only a little more than the maximum span of the slab given in the **beam tables** for a specified live load, it is probable that economy would result by thickening the slab and by the omission of the beams. For instance, in the 40-pound, 3-inch **beam tables** (page 59) the beam of greatest span which is excluded from the economical portion of the table by a heavy horizontal line has a span of 9 feet. Now entering the 3½-inch **beam table** (page 72), it will be found that for a 40-pound load the beams may be placed 9 feet on centers, or using a 3½-inch slab no beams are needed, and therefore in the 3-inch **beam table** the 9-foot span for a 40-pound load is properly in the uneconomical class of beams.

Having selected the total depth "D" and the necessary frames, the width of the concrete stem of each beam may be gotten from pages 16 and 17.

**Marginal beams** shown on page 18 are L-beams, not T-beams. It is suggested that for the design of these beams the T-beam depths be used and the reinforcement frames be changed to ones having areas of bottom steel not less than 60 per cent. of those called for in the T-beam tables, unless a wall load is carried by the marginal beams, in which case the beams may best be designed by using the **T-girder and special T-beam tables**.

**Example:** If the slab thickness is 3 inches, the live load 100 pounds per square foot, spacing of beams center to center 6 feet and span of beams 20 feet, the tables (page 64) call for a total depth "D" of T-beam of 15.5 inches and two No. 18 frames are required. The area of the bottom bars (page 21) is 2.45 square inches. If



the marginal beams do not carry a wall load their bottom bars should have an area of at least  $2.45 \times 0.6 = 1.47$  square inches, and (see page 21) two No. 9 frames will be required.

These tables may also be used to design marginal beams carrying a wall load, but the depth may be found unnecessarily small for wall beams. As an example, suppose the marginal beam in the preceding case carried a wall load of 6,000 pounds, or 300 pounds per lineal foot. In addition it must carry a live load of 300 pounds per lineal foot (specified as 100 pounds per square foot). The total load would therefore be 600 pounds per lineal foot. An equivalent T-beam should carry twice this load, or 1,200 pounds per square foot. Now this corresponds to a live load of 300 pounds per square foot for beams spaced 4 feet centers, and from the 3-inch beam tables (page 69), taking a 20-foot span, a beam with a depth "D" of 18 inches and reinforced with two No. 17 frames is required. The area of the bottom reinforcement (see page 21) is 3.29 square inches, and 60 per cent. of this area is 1.97 square inches, requiring for the L-beam two No. 12 frames. This method is on the safe side.

It should be noted that the total depth "D" of beams is given in inches and half inches. Whenever this depth results in a fractional depth of stem it is often desirable to deepen the beam one-half inch in order to reduce the cost of form work. This is also true of girders.

## Explanation of T-Girder and Special T-Beam Tables

The T-girder and special T-beam tables have been prepared primarily to enable the users of the **Blue Book** to economically design T-girders without computation other than to determine the total load upon the girders.

By reference to pages 16 and 17 it will be seen that from 2 inches to  $3\frac{1}{2}$  inches of concrete is required under the plane of the bottom reinforcement of all beams. Therefore, in selecting the total depth of a girder add  $3\frac{1}{2}$  to 4 inches to the total depth of the beams framing into the girder, and this will give the smallest permissible total depth of the girder, which will allow the bottom reinforcement of the beams to clear that of the girder. Upon examination, by using the tables, as hereafter explained, the minimum allowable depth of girder may, however, be too small for the load to be carried. When the smaller beam frames are used, 2 or 3 inches added to the beam depth for the girder depth will be sufficient, but a uniform minimum clearance of 4 inches is recommended. By the arrangement suggested the bottom steel of the beams will always clear that of the girders.

The basis of computation of the girders was the same as that of the beams, the span of the girders being regarded as the distance center to center of supports. This distance, however, should not exceed the clear span plus one foot.

The T-girder and special T-beam tables may also be advantageously used in the design of T-beams when a beam of small depth, as is given in the T-beam tables, is not required. These tables generally give greater depths "D" than those in the beam tables, and, therefore, by their use less steel will be required than is called for

in the beam tables. By using the larger depths of beams the effective story heights will be correspondingly decreased.

To design a T-beam using the T-girder and special T-beam tables, having determined the spacing of the beams, the only computation necessary is to obtain the total load upon the beam, neglecting the weight of the stem. It should be remembered that the deeper the beam the less steel required, but not necessarily the least total cost, because the deeper the beams and, therefore, the girders the greater the amount of concrete in the stems, the greater the height of the building and, therefore, the greater amount of wall masonry.

Knowing the live load to be carried and the spacing of the beams, the thickness of floor slab and the area of steel reinforcement per lineal foot of slab can be determined from the floor slab tables, pages 252 and 269.

The T-girder and special T-beam tables have been computed for beams and girders having slabs 3 to 6 inches thick. At the top of the tables the frames are given, and under each frame various total depths "D" expressed in inches are given for the beams and girders. In each column of depths the safe uniformly distributed total loads will be found expressed in 100-pound units. For example, by entering the last column of page 193 it is found that a beam 22 inches deep, reinforced with two No. 6 frames—written 2-6 in the table—for a span of 20 feet, will carry a safe total load of 10,300 pounds.

The numbers of the frames referred to in the various tables and the areas of the bottom bars for each frame are given on page 21.

The loads upon beams are generally uniformly distributed, but the loads upon girders are more or less concentrated where the beams frame into the girders. Usually from one to three beams frame into each girder, but the latter number may be much exceeded. As the slab will transmit to the girder a part of the beam

reactions or loads, these beam loads should not be regarded as concentrated ones applied within the stem widths.

In the selection of a girder, since the **T-girder and special T-beam tables** have been prepared upon the basis of a uniformly distributed load, it will be necessary to enter these tables with a uniformly distributed load equivalent to the actual total load upon the girders, and for convenience this load will be expressed in terms of one-half the area of the floor panels adjacent to the girder. The girders must carry one-half the total load upon the adjacent floor panels, except the portion which is carried directly to the columns by the beams framing into the columns.

If there is a single beam framing into both sides of a girder *bi* and at the middle of the length of the girder, Type "A" (page 18), the actual load upon the girder applied at the middle is one-fourth the total load upon the adjacent floor panels, if the adjacent beam spans are equal. If the adjacent beam spans are unequal, as in Type "A," the girder *bi* carries the total load on the cross-hatched area. If two beams, Type "B," frame into both sides of a girder *bi* at third points, one-third of the adjacent floor panel loads is carried by the girders and one-sixth is carried by the beams directly to the adjacent columns. If three beams, Type "C," frame into both sides of a girder *bi* at the middle and quarter points, three-eighths of the adjacent floor panel loads is carried by the girder and one-eighth is carried directly to the columns.

As a rule it is good practice to take the live load upon the girder as only 80 per cent. of the specified live load for the floor, because when there are windows, door openings or hallways it is improbable that the girders will ever receive the full live load, which, however, may come upon the beams.

Call "A" one-half of the area in square feet of the floor panels adjacent to a girder, the load of which is either carried by the girder or adjacent columns, and call  $L_2$  and  $L_3$  respectively the dead and live load per square foot of this area. The area "A" is shown (by cross-hatched lines) for girder *if* and a marginal girder *de* in types "A," "B" and "C." Then the equivalent uniformly distributed load  $L_1$  for use in the selection of the proper girder and its reinforcement can be determined from the following formula:

$$L_1 = \frac{8}{10} L_2 A + \frac{7}{10} L_3 A \quad (1)$$

Use when 80 per cent. of the live load is regarded as carried by the girder and not more than three beams frame into a girder.

$$L_1 = L_2 A + \frac{5}{10} L_3 A \quad (2)$$

Use when 80 per cent. of the live load is regarded as carried by the girder and more than three beams frame into a girder.

$$L_1 = \frac{2}{10} (L_2 A + L_3 A) \quad (3)$$

Use when the full live load is regarded as carried by the girder and not more than three beams frame into a girder.

$$L_1 = L_2 A + L_3 A \quad (4)$$

Use when full live load is regarded as carried by the girder and more than three beams frame into a girder.

It should be noted in the foregoing formulas, that  $L_2 A$  represents the total dead load upon the girder and this may generally be more readily obtained by adding the weight of the beam stems or webs to that of the floor slab, both taken for the area A.

These formulas are not quite mathematically correct, but the error is negligible and on the safe side, and for simplicity they are recommended rather than

more complicated ones. For further simplicity and with small loss of economy formulas 2 or 4 may be used for the design of all girders.

Example to design a girder  $b_i$  of Type "A," "B" or "C" (page 18), assuming a thickness of slab of 4 inches and a dead and live load of respectively 60 and 100 pounds per square foot of floor, and assuming that 80 per cent. of the specified live load only is to be carried by the girder. The area "A" in square feet of the floor adjacent to  $b_i$ , which is either carried by  $b_i$  or the adjacent columns  $b$  and  $i$ ,  $= \frac{22+18}{2} \times 16 = 320$  square feet.

$L_1 = (\frac{2}{16} \times 60 + \frac{7}{16} \times 100) \times 320 = 39,680$  pounds. Entering the 4-inch T-girder and special T-beam tables for a span of 16 feet. The following girders are found available to carry the load of 39,680 pounds:

- Two No. 12 frames, total depth "D"—28 inches
- Two No. 13 frames, total depth "D"—26 inches
- Two No. 14 frames, total depth "D"—24 inches
- Two No. 15 frames, total depth "D"—23 inches
- Two No. 16 frames, total depth "D"—21 inches
- Two No. 17 frames, total depth "D"—20 inches
- Two No. 18 frames, total depth "D"—19 inches
- Two No. 19 frames, total depth "D"—18 inches
- Two No. 20 frames, total depth "D"—17 inches
- Two No. 21 frames, total depth "D"—17 inches
- Two No. 22 frames, total depth "D"—16 inches

The selection of the best depth of girder will depend upon the depth of the beams framing into it or on other conditions (see design). It should be noted that the deeper the girders the less steel required.

It should be further noted that the safe loads for intermediate depths between those given in the tables, or for depth 2 inches above or below those given, may be gotten by interpolation or proportion. For instance, the safe load for a T-girder or beam with a 4-inch slab

(reinforced with two No. 13 frames, see page 208) having a depth of 28 inches for a span of 15 feet will be  $\frac{43,300+51,500}{2}$  or 47,400 pounds. Safe loads for intermediate spans can be gotten in a similar manner.

**Marginal beams and girders** (see page 18), Types "A," "B" and "C," are L-beams or girders, not T-sections. The safe loads for the T-beams and girders of the table have been computed on the basis of a flange width not exceeding twelve times the thickness of the slab, which is generally expressed as 12t. The width of flange for L-beams or girders should not exceed six times this thickness, or 6t. The design of marginal beams and girders using the tables of **T-girders and special T-beams** can be most correctly effected by use of the tables of the width in inches of rectangular beams developed by a single frame and the table of modifying factors for width of T-beams and girders developed by a single frame (see pages 26 to 31).

If a tabulated load is based upon stressing the T-beam or girder flange concrete, to the maximum allowed stress of 650 pounds per square inch for its full width 12t, and if this T were changed to an L by removing one arm of the flange of the T, it is evident that the tabulated safe load given for the T would be too high for the L. But if the T-beam or girder safe load was based upon only developing 3t, the removal of one arm of the T-flange would not weaken the T, as a flange of at least 7t would remain to take the necessary compression. The tables referred to will enable the designer to readily determine the width of T-beam or girder flange developed by any frame of any ordinary depth.

If the width of T-beam or girder flange developed by the frames called for in the tables exceeds 6t, the tabulated safe loads when used for L-beams or girders of same depth and reinforcement must be

reduced by multiplying them by  $6t \div$  (the width developed by the frames called for). For example, a T-beam with a 4-inch slab having a span of 15 feet, with a total depth of 18 inches and reinforced with two No. 18 frames, will carry a safe load of 40,200 pounds (page 210). A gross depth "D" for an 18-inch beam reinforced with two No. 18 frames (see page 16) gives a net depth of  $18 - 3 = 15$  inches.

Now entering the tables of "Widths of Rectangular Beams Developed by a Single Frame," (page 28), it is found that a No. 18 frame having a net depth of 15 inches will develop a rectangular beam having a width of 15.2 inches, or two No. 18 frames will develop a rectangular beam 30.4 inches wide. Now entering the table of "Modifying Factors of Width of T-beams" (page 31), it is found that for a net depth of 15 inches and a slab thickness of 4 inches the modifying factor is 1.10. Therefore, the width of T-beam developed by two No. 18 frames is  $30.4 \times 1.1 = 33.4$  inches, which is greater than 6t, or 24 inches. Therefore, the safe uniformly distributed total load on the L-beam is  $40,200 \times \frac{24}{33.4} = 28,900$  pounds. The amount of steel may be reduced by the same ratio and a new frame selected. Area of two No. 18 frames = 3.52 square inches,  $3.52 \times \frac{24}{33.4} = 2.53$  square inches, the nearest larger area which is given by two No. 14 frames. In reducing the area of steel the net depth only of the beam should be considered, as different frames often have a different amount of concrete below the plane of the bottom steel (pages 16 and 17).

If 6t is exceeded, as in the preceding example, and a total load of 40,200 pounds must be carried, a beam of greater depth and less steel can be selected in which 6t will not be exceeded. Try two No. 14 frames having a total depth of "D" of 24 inches and carrying a tabulated safe load slightly in excess of 40,200 pounds (page 209). The net depth (see page 16) is 21 inches. Now enter the table of "Widths of Rectangular Beams



Developed by a Single Frame," and it will be seen that a No. 14 frame with a net depth of 21 inches will only develop a rectangular beam 8.2 inches wide, or two No. 14 frames will develop 16.4 inches. Now enter the table of "Modifying Factors for Width of T-beams and Girders," and the factor for a 4-inch slab with a net depth of 21 inches will be found to be 1.33. Therefore, the width of T-beam developed by the two No. 14 frames= $16.4 \times 1.33 = 21.8$  inches, which, being less than 24 inches, or 6t, shows that the L-beam can carry the full tabulated load.

The safe loads on L-beams and girders may be approximated by taking one-half of the tabulated loads given for T-beams and girders and using six-tenths of the steel area required for the T-beams or to design an L-beam or girder, enter the T-girder and special T-beam tables, with twice the total load on the beam and then use reinforcing frames having an area of bottom steel six-tenths of that required on the basis of the doubled total load. As the marginal beams and girders which do not carry wall loads usually receive only one-half of the total loads upon the intermediate T-beams and girders, this ratio is of frequent use. This rule results in a conservative design.

## Designs of Floors Using Tables

**Design "A."** Live load on floor 40 pounds per square foot. The column spacings only are given in

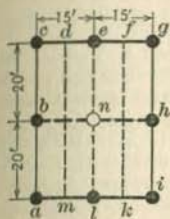


Fig. A

Fig. "A," required to design the floor slab and the interior and marginal beams and girders, the exterior walls being carried directly by the columns and the stresses per square inch in the concrete and steel not to exceed 650 pounds and 16,000 pounds respectively.

The girders will be placed on the lines *cg*, *bh* and *ai*, as they carry heavier loads per lineal foot than the beams and therefore should preferably span the shorter distances. By making the girders span the greater distances, particularly where such girders may be located in wall or partitions, a greater clear story height results, and such arrangement may therefore be desirable, although not often economical of material.

Select a 3-inch floor slab (see page 37) for the given live load. To determine the beam spacing and the necessary area of slab reinforcement, enter the T-beam tables (page 60) and in the last column of distances center to center of beams for the given load, it will be seen that the beams may not be spaced further apart than 7 feet 6 inches. Therefore, since the span of the girder is 15 feet, only one beam per panel framing into the girder at its middle will be used in addition to the marginal beams, *ab*, *bc*, *gh* and *hi* and the interior or beams *en* and *nl*, which carry their loads directly to the columns.

At the top of page 60, the requisite area of steel reinforcement per lineal foot of floor is found to be 0.163

square inches. The floor slab reinforcement should therefore (see page 23) consist of No. 18 Pittsburgh Standard Slab Reinforcement.

Round or square bars are not generally recommended for floor slab reinforcement, but as they are often used and are commonly available in local markets, in sufficient quantities for small floors, tables are given on pages 24 and 25, showing the area of steel per lineal foot of slab for both round and square bars, spaced at various intervals. Entering these tables it is seen that  $\frac{5}{16}$  inch round bars spaced  $5\frac{1}{2}$  inches on center or  $\frac{5}{16}$  inch square bars spaced 7 inches, give approximately the requisite area of 0.163 square inches per lineal foot. These latter tables also give practically the same area per foot for larger bars than  $\frac{5}{16}$  inch spaced at wider intervals than  $5\frac{1}{2}$  and 7 inches. In general this spacing should not exceed two and one-half times the slab thickness and preferably should be less.

To design the interior beams, assuming that beams of minimum depth are required, re-enter the same table, page 60, selecting a depth and reinforcement for a beam spaced 7 feet 6 inches on centers and having a span of 20 feet. The tables call for a beam having a total depth "D" (including slab thickness) of  $15\frac{1}{2}$  inches and for two No. 10 frames. Since the depth of the stem equals  $15\frac{1}{2} - 3 = 12\frac{1}{2}$  inches it may be desirable to use a 16-inch beam and thus avoid a fractional depth of stem. The total area of bottom bars of these frames (see page 21) is 1.73 square inches. The width of the T-beam stem (see page 16) should be 6 inches.

To design the marginal or L-beams, ab, bc, gh and hi, since the wall loads are directly carried by the columns and not by the marginal beams, use the same depth "D" of beam or  $15\frac{1}{2}$  inches, as for interior beams. For the necessary reinforcing frames (see explanation of beam tables) select ones having an area at least of

$1.73 \times 0.6 = 1.03$  square inches. Two number 6 frames will therefore be used. The width of the marginal or L-beam stem should be the same as for a T-beam having the same reinforcement. A 6-inch width of stem will be used (see page 16).

To design the interior girder, bn, find the area "A" in square feet (see explanation of T-girder and special T-beam tables) or one-half of the area of the floor panels adjacent to the girder. "A" =  $15 \times 20 = 300$  square feet. The total load to be used in entering the T-girder and Special T-beam tables, provided only 80 per cent. of the live load is assumed to be carried by the girder, is  $L_1 = \frac{9}{10} L_2 A + \frac{7}{10} L_3 A$ , see page 44. Now as  $L_2$  is the total dead load per square foot of floor,  $L_2 A$  is the total dead load of floor over the area "A."  $L_2 A$  therefore equals the dead load of the slab plus the dead load of the stems of the T-beams. The dead load of the slab equals  $300 \times \frac{15.0}{4}$  and the dead load of the T-beam stems, since only one T-beam, frames into a girder, equals  $78 \times 20 = 1,560$  pounds. The weight per foot of the stem or 78 pounds was taken from page 32.

On the basis of the foregoing  $L_1 = \frac{9}{10} L_2 A + \frac{7}{10} L_3 A = \frac{9}{10} (300 \times \frac{15.0}{4} + 1560) + \frac{7}{10} (40 \times 300) = 19,929$  pounds. Now enter the 3-inch T-girder and special T-beam tables, bearing in mind that the smallest permissible depth of the girder, in order that the bottom reinforcement of the beam will clear that of the girder, is equal to the depth of the beam plus 3 inches (see page 16 and explanation of T-beam and special T-beam tables). For uniformity of construction it may be desir-

able to add 4 inches to the depth of all beams in determining upon the minimum depth of girders, or the minimum depth of the girder,  $bn = 15\frac{1}{2} + 4 = 19\frac{1}{2}$  inches. On page 195 it will be seen by interpolating between depths of 18 and 22 inches that a girder reinforced with two No. 10 frames and having a total depth "D" of 19.5 inches will be sufficiently strong to carry the load of 19,929 pounds.

In preparing the T-girder and special T-beam tables, the weight of the girder stems was deducted, and therefore in computing the total load to be carried by the girder the weight of the girder stems was ignored.

A deeper girder and therefore one requiring less steel may be selected by the designer, from the tables, if conditions warrant. If the girders come in partitions this deepening may result in material economy. For example (see page 194), the load of 19,929 pounds may be carried by a girder  $22\frac{1}{2}$  inches deep and reinforced with two No. 8 frames.

To design the marginal girder, *ce*, assuming that the wall load is carried directly by the columns, enter the T-girder and special T-beam tables, with twice the load upon the marginal or L-girder and select a T-girder which will carry this doubled load. The area "A" of the adjacent floor which is carried by *ce* equals one-half the area carried by *bn*, therefore the load upon *ce* =  $19,929/2$  pounds. Enter the tables with twice this load or 19,929 pounds, selecting the same depth of girder and therefore the same reinforcement as for girder *bn* or two No. 10 frames, having an area of 1.73 square inches. The area of reinforcement necessary for the L-beam, using the approximate method given in "Explanation of T-girder and special T-beam tables," equal  $1.73 \times 0.6 = 1.04$  square inches, or two No. 6 frames are required (see page 21 for frame numbers).

To check this selection of the marginal girder, or to more correctly design the girder (see explanation of T-girder and special T-beam tables), enter the "Tables of the Width in Inches Developed by a Single Frame" (page 27), using the net depth of the girder or  $19\frac{1}{2} - 3 = 16\frac{1}{2}$  inches. (For the net depth of girder reinforced with two No. 10 frames see page 16.) In the tables of widths referred to it will be seen that the width of a rectangular beam developed by a No. 6 frame and for a net beam depth of  $16\frac{1}{2}$  inches is 4.45 inches. 2 frames will develop  $2 \times 4.45 = 8.90$  inches. Now entering the table of modifying factors for T-beams (page 31), it is found that the modifying factor for a T-beam with 3-inch slab and a net depth of  $16\frac{1}{2}$  inches is 1.37. Therefore the width of the T-beam flange developed by two No. 6 frames =  $8.9 \times 1.37 = 12.2$  inches, and as this length is less than  $6t$  (6 times the slab thickness) or 18 inches, the tabulated safe load for two No. 6 frames having a total depth "D" of 19.5 inches, may be safely used for marginal or L-beams.

The tables (page 193) give by interpolation a safe load, for a  $19\frac{1}{2}$ -inch T-girder, span 15 feet, reinforced with two No. 6 frames, of 13,300 pounds, which is greater than the actual load upon the L-beam, which is  $19920/2$  equals 9964 pounds. Now as the flange developed by two No. 6 frames for a net depth of  $19\frac{1}{2}$  inches is less than  $6t$ , it is evident that two smaller frames will also develop a width of flange less than  $6t$ . Therefore the tabulated safe loads for frames lower in number than 6 and for a depth of  $19\frac{1}{2}$  inches, may safely be used for L-beams. Entering the table again it will be found (page 193) that two No. 4 frames may be used, as they will safely carry a load (by interpolation) of  $10,000 + 2275 = 12,275$  pounds. Therefore the approximate method is safe and its use results in small loss of economy.

**Design "B."** Live load, 200 pounds per square foot of floor. The column spacing only is given in Fig. "B." Required to design the floor slab and interior

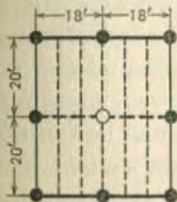


Fig. "B"

and marginal beams and girders, the exterior walls weighing 400 pounds per lineal foot being carried by the beams and girders, the stresses per square inch in concrete and steel not to exceed 650 and 16,000 pounds respectively. (For design of marginal beams and

girders see also design "A" and explanation of T-beam tables and T-girder and special T-beam tables.)

Select a 4-inch slab (see page 37) for the given load. To determine the beam spacing and the necessary area of slab reinforcement enter the 4-inch beam tables (page 97), and it will be seen that the greatest distance, center to center of beams, is 6 feet 6 inches. Therefore, since the girders are 18 feet long, space the beams 6 feet on centers. For this spacing, from top of page 97, the necessary slab reinforcement per lineal foot is found to be 0.255 square inches. Use No. 27 Pittsburgh Standard Slab Reinforcement (see page 23).

To design the interior beams, if a minimum depth of beam is desired, enter the T-beam tables and on page 97 select for the given live load a 20-foot span and for beams spaced 6 feet, a beam having a total depth "D" of  $15\frac{1}{2}$  inches and reinforced with two No. 21 frames.

The area of the bottom bars, see page 21, is 4.5 square inches. The necessary width of stem (see page 17) is 8 inches.

To design the marginal or L-beams, it is best to use the T-girder and special T-beam tables, as the depths used in the T-beam tables are too shallow for an L-beam carrying a heavy wall load. The total load on an L-beam equals the weight of a 4-inch slab, having an area of  $3 \times 20 = 60$  square feet and a wall load of 400 pounds per lineal foot. Having obtained the total load upon the L-beam, proceed as in the design of the Marginal Girders of Design "A."

A stiffer interior beam, and one requiring less steel reinforcement may be selected by using the T-girder and special T-beam tables. The load upon the beam equals the weight of the floor slab, plus the weight of the stem (see page 32) plus the live load on the floor slab or  $20 \times 6 \times 150/8 + 129 \times 20 + 20 \times 6 \times 200 = 32,580$  pounds. The weight of the stem is small, and in the above equation was taken as the weight of a stem 8 inches wide and for a beam 5 inches deeper than that of the shallow interior beam or  $15.5 + 5 = 20.5$  inches deep. (For weight of stem see page 32.)  
 $D_s = 20.5 - 4 = 16.5$  inches.

To select a beam about 20.5 inches deep, enter the tables of T-girder and special T-beams and on page 210 for a span of 20 feet a beam 20 inches deep reinforced with two No. 18 frames is found by interpolation, which will carry a safe load of  $\frac{29100 + 37600}{2} = 33350$  pounds. Two No. 18 frames (see page 21) have an area of bottom bars of 3.52 square inches. Note that a beam of minimum depth, selected from the beam tables, require 1 square inch more bottom reinforcement than a beam 4.5 inches deeper. The necessary width of stem (see page 16) is 8 inches.

By reinforcing the floor so that the bending moments may be computed on the basis of  $1/12 w l^2$  and by stressing the concrete and the steel higher than 650 pounds and 16,000 pounds per square inch, the span of floor slabs is often made greater than is given in the beam tables under similar loading, thereby reducing the number of beams per panel. The floor slab tables (pages 232 to 269) include slabs stressed as high as 700 pounds per square inch in the concrete and 20,000 pounds in the steel. These table may be used in conjunction with the T-girder and special T-beam tables for a complete design of a floor without using the T-beam tables (see design "C.") If it is desirable to compute the slab on the basis of  $1/12 w l^2$ , the method given under design "C" should be used.

To design the interior girders the minimum depth of girder which may be used in order that the bottom reinforcement of the beam will clear that of the girder equals the depth of the beam plus 4 inches or  $20 + 4 = 24$  inches. The area "A" (see page 44) equals  $18 \times 20 = 360$  square feet. Taking the full live load on the girder, and since there are two beams per girder framing at third points, the load to be used in the tables for



selecting the proper girder is  $L_1 = \frac{2}{15}(L_2A + L_3A) = \frac{2}{15} [( \frac{150}{3} \times 360 + 2 \times 20 \times 133.5 ) + 200 \times 360] = 95,340$  pounds. It should be noted that  $L_2A$  equal the total dead load of slab  $= \frac{150}{3} \times 360$  plus the dead load of 2 T-beam stems 20 feet long or  $2 \times 20 \times 133.5$ . For weight of stems (see page 32).

Entering the 4-inch T-girder and Special T-beam tables (page 213) with a load of 95,340 pounds a girder having a total depth of 28 inches and reinforced with three No. 19 frames will be selected:

It should be noted that if the girder had had a span of 23 feet instead of 18 feet and if it had been subjected to the same load it would have been impossible to have selected a girder from the 4-inch tables, since the heaviest load given in the tables is 91,600 pounds (see page 213). In such cases it will be necessary to use heavier floor slabs in order to get the necessary flange area on the basis of 12t. For example, in the 6-inch girder and special T-beam tables (see page 251), the largest safe load for a 23-foot span is 260,600 pounds.

The width of the stem of a girder 29½ inches deep and reinforced with three frames should be 12 inches.

For the design of marginal beams and girders, see Design "A" and explanation of the tables.

**Design "C."** Live load 400 pounds per square foot

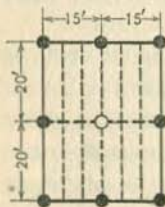


Fig. "C"

of floor. The column spacings only are given in Fig. "C," required to design the floor slab and interior beams without using the beam tables, the stresses per square inch in the concrete and steel not to exceed 650 pounds and 16,000 pounds respectively, and the floor slab to be designed on the basis of  $\frac{1}{12} wl^2$ .

Select a 5-inch floor slab (see page 37). Now enter the floor slab tables (page 265) and it will be seen that for a 5-inch slab and a 400-pound load, the beams may be spaced 6.7 feet on centers. Therefore use two beams per girder, spacing them 5 feet on centers. The area of steel taken from the tables (page 265), or 0.369 square inch is in excess of the area needed since the span has been shortened from 6.7 to 5 feet.

On page 261 it is found that for  $f_c = 500$  pounds and  $f_s = 16,000$  pounds and for a live load of 400 pounds per square foot, the beams may be spaced 5.4 inches on centers, and the required area of reinforcement steel is 0.239 square inches. The beams will therefore be placed 5 feet on centers and the slab will be reinforced with number 26 Pittsburgh Standard Fabric Slab Reinforcement, see page 23. For the selection of beams and girders use tables of T-girder and special T-beams, see Designs "A" and "B," and explanation of tables.

**Design "D."** In the design of many buildings or parts of buildings it will be found economical to omit the beams and make the slab span from girder to girder, using as a rule thicker slabs than are recommended on page 37. To design this class of floor use the floor slab and the T-girder and special T-beam tables.

**Design "E."** Occasionally it will be found economical to design the floor slab with square or approximately square panels, the slab being reinforced in two directions. In this case the reinforcement should be of equal amount in the two directions, but the rods should be spaced closer near the middle of slab than at the ends.

It is not generally economical to reinforce floor slabs which are not square or approximately square in two directions, except that a small percentage of transverse reinforcement may be economically used to prevent shrinkage cracks and to take care of heavy concentrated loads.

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.046		0.059		0.073		0.088		0.104	
C to C Beams	4'-0"		4'-6"		5'-0"		5'-6"		6'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	1-1	6.5	1-1	6.5	1-1	6.5	1-2	6.5	1-2
6-6	6.5	1-1	6.5	1-2	6.5	1-2	6.5	1-3	6.5	1-3
7-0	6.5	1-2	6.5	1-2	6.5	1-3	6.5	1-3	6.5	1-4
7-6	6.5	1-2	6.5	1-3	6.5	1-4	6.5	1-4	6.5	2-1
8-0	7.0	1-3	7.0	1-4	7.0	1-4	7.0	2-1	7.0	2-2
8-6	7.0	1-3	7.0	1-4	7.0	2-1	7.0	2-2	7.0	2-2
9-0	7.5	1-4	7.5	1-4	7.5	2-1	7.5	2-2	7.5	2-2
9-6	7.5	1-4	7.5	2-1	7.5	2-2	7.5	2-2	7.5	2-3
10-0	8.0	1-4	8.0	2-1	8.0	2-2	8.0	2-2	8.0	2-3
10-6	8.5	2-1	8.5	2-2	8.5	2-2	8.5	2-3	8.5	2-3
11-0	8.5	2-2	8.5	2-2	8.5	2-2	8.5	2-3	8.5	2-3
11-6	9.0	2-2	9.0	2-2	9.0	2-3	9.0	2-3	9.0	2-4
12-0	9.0	2-3	9.0	2-3	9.0	2-3	9.0	2-3	9.0	2-4
12-6	9.5	2-3	9.5	2-3	9.5	2-3	9.5	2-4	9.5	2-4
13-0	9.5	2-3	9.5	2-3	9.5	2-3	9.5	2-4	9.5	2-4
13-6	10.0	2-3	10.0	2-3	10.0	2-4	10.0	2-4	11.0	2-5
14-0	10.5	2-3	10.5	2-3	10.5	2-4	10.5	2-4	11.5	2-5
14-6	10.5	2-3	10.5	2-4	10.5	2-4	11.5	2-5	11.5	2-6
15-0	11.0	2-3	11.0	2-4	11.0	2-4	12.0	2-5	12.0	2-6
15-6	11.5	2-3	11.5	2-4	11.5	2-4	12.5	2-6	12.5	2-6
16-0	11.5	2-4	11.5	2-4	12.5	2-5	12.5	2-6	12.5	2-6
16-6	12.0	2-4	12.0	2-4	13.0	2-5	13.0	2-6	13.0	2-7
17-0	12.0	2-4	13.0	2-5	13.0	2-6	13.0	2-6	13.0	2-7
17-6	12.5	2-4	13.5	2-5	13.5	2-6	13.5	2-7	13.5	2-7
18-0	13.0	2-4	14.0	2-5	14.0	2-6	14.0	2-7	14.0	2-8
18-6	13.5	2-4	14.5	2-5	14.5	2-6	14.5	2-7	14.5	2-8
19-0	13.5	2-4	14.5	2-6	14.5	2-6	14.5	2-7	14.5	2-8
19-6	15.0	2-5	15.0	2-6	15.0	2-7	15.0	2-7	15.0	2-8
20-0	15.5	2-5	15.5	2-6	15.5	2-7	15.5	2-7	15.5	2-8
21-0	16.0	2-6	16.0	2-7	16.0	2-7	16.0	2-8	16.0	2-9
22-0	17.0	2-6	17.0	2-7	17.0	2-8	17.0	2-8	17.0	2-9
23-0	18.0	2-6	18.0	2-7	18.0	2-8	18.0	2-8	18.0	2-9
24-0	19.0	2-7	19.0	2-8	19.0	2-9	19.0	2-9	19.0	2-10
25-0	20.0	2-7	20.0	2-8	20.0	2-9	20.0	2-9	20.0	2-10
25-6	21.0	2-7	21.0	2-8	21.0	2-9	21.0	2-10	21.0	2-10
27-0	22.0	2-7	22.0	2-8	22.0	2-9	22.0	2-10	22.0	2-10
28-0	23.0	2-8	23.0	2-8	23.0	2-9	23.0	2-10	23.0	2-10
29-0	24.0	2-8	24.0	2-8	24.0	2-9	24.0	2-10	24.0	2-10
30-0	25.0	2-8	25.0	2-8	25.0	2-9	25.0	2-10	25.0	2-11

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.123		0.142		0.163		0.053		0.066	
C to C Beams	6'-6"		7'-0"		7'-6"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	1-3	6.5	1-3	6.5	1-3	6.5	1-1	6.5	1-1
6-6	6.5	1-3	6.5	1-4	6.5	1-4	6.5	1-2	6.5	1-2
7-0	6.5	1-4	6.5	2-1	6.5	2-2	6.5	1-2	6.5	1-3
7-6	6.5	2-2	6.5	2-2	6.5	2-2	6.5	1-3	6.5	1-4
8-0	7.0	2-2	7.0	2-2	7.0	2-3	7.0	1-4	7.0	1-4
8-6	7.0	2-2	7.0	2-3	7.0	2-3	7.0	1-4	7.0	2-1
9-0	7.5	2-3	7.5	2-3	7.5	2-3	7.5	1-4	7.5	2-2
9-6	7.5	2-3	7.5	2-3	7.5	2-4	7.5	2-1	7.5	2-2
10-0	8.0	2-3	8.0	2-3	8.0	2-4	8.0	2-2	8.0	2-2
10-6	8.5	2-3	8.5	2-4	8.5	2-4	8.5	2-2	8.5	2-2
11-0	8.5	2-4	8.5	2-4	8.5	2-4	8.5	2-2	8.5	2-3
11-6	9.0	2-4	9.0	2-4	10.0	2-5	9.0	2-2	9.0	2-3
12-0	9.0	2-4	10.0	2-5	10.0	2-6	9.0	2-3	9.0	2-3
12-6	10.5	2-5	10.5	2-6	10.5	2-6	9.5	2-3	9.5	2-3
13-0	10.5	2-5	10.5	2-6	10.5	2-7	9.5	2-3	9.5	2-4
13-6	11.0	2-6	11.0	2-6	11.0	2-7	10.0	2-3	10.0	2-4
14-0	11.5	2-6	11.5	2-7	11.5	2-7	10.5	2-3	10.5	2-4
14-6	11.5	2-6	11.5	2-7	11.5	2-8	10.5	2-4	10.5	2-4
15-0	12.0	2-7	12.0	2-7	12.0	2-8	11.0	2-4	11.0	2-4
15-6	12.5	2-7	12.5	2-7	12.5	2-8	11.5	2-4	12.5	2-5
16-0	12.5	2-7	12.5	2-8	12.5	2-8	11.5	2-4	12.5	2-5
16-6	13.0	2-7	13.0	2-8	13.0	2-9	12.0	2-4	13.0	2-6
17-0	13.0	2-8	13.0	2-8	13.0	2-9	13.0	2-5	13.0	2-6
17-6	13.5	2-8	13.5	2-9	13.5	2-9	13.5	2-5	13.5	2-6
18-0	14.0	2-8	14.0	2-9	14.0	2-10	14.0	2-5	14.0	2-6
18-6	14.5	2-8	14.5	2-9	14.5	2-10	14.5	2-6	14.5	2-6
19-0	14.5	2-9	14.5	2-9	14.5	2-10	14.5	2-6	14.5	2-7
19-6	15.0	2-9	15.0	2-9	15.0	2-10	15.0	2-6	15.0	2-7
20-0	15.5	2-9	15.5	2-10	15.5	2-10	15.5	2-6	15.5	2-7
21-0	16.0	2-10	16.0	2-10	16.0	2-11	16.0	2-7	16.0	2-8
22-0	17.0	2-10	17.0	2-10	17.0	2-11	17.0	2-7	17.0	2-8
23-0	18.0	2-10	18.0	2-10	18.0	2-11	18.0	2-7	18.0	2-8
24-0	19.0	2-11	19.0	2-11	19.0	2-12	19.0	2-8	19.0	2-9
25-0	20.0	2-11	20.0	2-11	20.0	2-12	20.0	2-8	20.0	2-9
26-0	21.0	2-11	21.0	2-12	21.0	2-12	21.0	2-8	21.0	2-9
27-0	22.0	2-11	22.0	2-12	22.0	2-12	22.0	2-8	22.0	2-9
28-0	23.0	2-11	23.0	2-12	23.0	2-12	23.0	2-8	23.0	2-9
29-0	24.0	2-11	24.0	2-12	24.0	2-12	24.0	2-8	24.0	2-9
30-0	25.0	2-11	25.0	2-12	25.0	2-12	25.0	2-8	25.0	2-9

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.082		0.099		0.118		0.139		0.161	
C to C Beams	5'-0"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	1-2	6.5	1-2	6.5	1-3	6.5	1-3	6.5	1-4
6-6	6.5	1-3	6.5	1-3	6.5	1-4	6.5	1-4	6.5	2-1
7-0	6.5	1-4	6.5	1-4	6.5	2-1	6.5	2-2	6.5	2-2
7-6	6.5	1-4	6.5	2-1	6.5	2-2	6.5	2-2	6.5	2-3
8-0	7.0	2-1	7.0	2-2	7.0	2-2	7.0	2-3	7.0	2-3
8-6	7.0	2-2	7.0	2-2	7.0	2-3	7.0	2-3	7.0	2-3
9-0	7.5	2-2	7.5	2-2	7.5	2-3	7.5	2-3	7.5	2-4
9-6	7.5	2-2	7.5	2-3	7.5	2-3	7.5	2-4	7.5	2-4
10-0	8.0	2-3	8.0	2-3	8.0	2-3	8.0	2-4	8.0	2-4
10-6	8.5	2-3	8.5	2-3	8.5	2-4	8.5	2-4	8.5	2-4
11-0	8.5	2-3	8.5	2-3	8.5	2-4	8.5	2-4	9.5	2-5
11-6	9.0	2-3	9.0	2-4	9.0	2-4	10.0	2-5	10.0	2-6
12-0	9.0	2-4	9.0	2-4	10.0	2-5	10.0	2-6	10.0	2-6
12-6	9.5	2-4	9.5	2-4	10.5	2-5	10.5	2-6	10.5	2-7
13-0	9.5	2-4	10.5	2-5	10.5	2-6	10.5	2-7	10.5	2-7
13-6	10.0	2-4	11.0	2-5	11.0	2-6	11.0	2-7	11.0	2-7
14-0	11.5	2-5	11.5	2-6	11.5	2-6	11.5	2-7	11.5	2-8
14-6	11.5	2-5	11.5	2-6	11.5	2-7	11.5	2-7	11.5	2-8
15-0	12.0	2-6	12.0	2-6	12.0	2-7	12.0	2-8	12.0	2-8
15-6	12.5	2-6	12.5	2-7	12.5	2-7	12.5	2-8	12.5	2-9
16-0	12.5	2-6	12.5	2-7	12.5	2-8	12.5	2-8	12.5	2-9
16-6	13.0	2-6	13.0	2-7	13.0	2-8	13.0	2-9	13.0	2-9
17-0	13.0	2-7	13.0	2-8	13.0	2-8	13.0	2-9	13.0	2-10
17-6	13.5	2-7	13.5	2-8	13.5	2-8	13.5	2-9	13.5	2-10
18-0	14.0	2-7	14.0	2-8	14.0	2-9	14.0	2-9	14.0	2-10
18-6	14.5	2-7	14.5	2-8	14.5	2-9	14.5	2-10	14.5	2-10
19-0	14.5	2-8	14.5	2-8	14.5	2-9	14.5	2-10	14.5	2-11
19-6	15.0	2-8	15.0	2-9	15.0	2-9	15.0	2-10	15.0	2-11
20-0	15.5	2-8	15.5	2-9	15.5	2-9	15.5	2-10	15.5	2-11
21-0	16.0	2-8	16.0	2-9	16.0	2-10	16.0	2-11	16.0	2-11
22-0	17.0	2-9	17.0	2-9	17.0	2-10	17.0	2-11	17.0	2-12
23-0	18.0	2-9	18.0	2-9	18.0	2-10	18.0	2-11	18.0	2-12
24-0	19.0	2-9	19.0	2-10	19.0	2-11	19.0	2-12	19.0	2-12
25-0	20.0	2-10	20.0	2-10	20.0	2-11	20.0	2-12	20.0	2-12
26-0	21.0	2-10	21.0	2-10	21.0	2-11	21.0	2-12	21.0	2-12
27-0	22.0	2-10	22.0	2-11	22.0	2-11	22.0	2-12	22.0	2-12
28-0	23.0	2-10	23.0	2-11	23.0	2-11	23.0	2-12	23.0	2-12
29-0	24.0	2-10	24.0	2-11	24.0	2-11	24.0	2-12	24.0	2-12
30-0	25.0	2-10	25.0	2-11	25.0	2-11	25.0	2-12	25.0	2-12

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.068		0.080		0.100		0.128		0.152	
C to C Beams	4'-0"		4'-6"		5'-0"		5'-6"		6'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	1-2	6.5	1-3	6.5	1-3	6.5	1-4	6.5	1-4
6-6	6.5	1-3	6.5	1-4	6.5	1-4	6.5	2-1	6.5	2-2
7-0	6.5	1-4	6.5	1-4	6.5	2-2	6.5	2-2	6.5	2-2
7-6	6.5	2-1	6.5	2-2	6.5	2-2	6.5	2-3	6.5	2-3
8-0	7.0	2-2	7.0	2-2	7.0	2-3	7.0	2-3	7.0	2-3
8-6	7.0	2-2	7.0	2-2	7.0	2-3	7.0	2-3	7.0	2-4
9-0	7.5	2-2	7.5	2-3	7.5	2-3	7.5	2-4	7.5	2-4
9-6	7.5	2-3	7.5	2-3	7.5	2-4	7.5	2-4	8.5	2-5
10-0	8.0	2-3	8.0	2-3	8.0	2-4	8.0	2-4	9.0	2-5
10-6	8.5	2-3	8.5	2-4	8.5	2-4	8.5	2-4	9.5	2-6
11-0	8.5	2-3	8.5	2-4	8.5	2-4	9.5	2-5	9.5	2-6
11-6	9.0	2-3	9.0	2-4	10.0	2-5	10.0	2-6	10.0	2-7
12-0	9.0	2-4	9.0	2-4	10.0	2-6	10.0	2-6	10.0	2-7
12-6	9.5	2-4	10.5	2-5	10.5	2-6	10.5	2-7	10.5	2-8
13-0	9.5	2-4	10.5	2-6	10.5	2-6	10.5	2-7	10.5	2-8
13-6	10.0	2-4	11.0	2-6	11.0	2-7	11.0	2-7	11.0	2-8
14-0	11.5	2-5	11.5	2-6	11.5	2-7	11.5	2-8	11.5	2-9
14-6	11.5	2-5	11.5	2-6	11.5	2-7	11.5	2-8	11.5	2-9
15-0	12.0	2-6	12.0	2-7	12.0	2-8	12.0	2-9	12.0	2-9
15-6	12.5	2-6	12.5	2-7	12.5	2-8	12.5	2-9	12.5	2-9
16-0	12.5	2-6	12.5	2-7	12.5	2-8	12.5	2-9	12.5	2-10
16-6	13.0	2-7	13.0	2-8	13.0	2-8	13.0	2-9	13.0	2-10
17-0	13.0	2-7	13.0	2-8	13.0	2-8	13.0	2-10	13.0	2-11
17-6	13.5	2-7	13.5	2-8	13.5	2-9	13.5	2-10	13.5	2-11
18-0	14.0	2-7	14.0	2-8	14.0	2-9	14.0	2-10	14.0	2-11
18-6	14.5	2-7	14.5	2-8	14.5	2-10	14.5	2-10	14.5	2-11
19-0	14.5	2-8	14.5	2-9	14.5	2-10	14.5	2-11	14.5	2-11
19-6	15.0	2-8	15.0	2-9	15.0	2-10	15.0	2-11	15.0	2-12
20-0	15.5	2-8	15.5	2-9	15.5	2-10	15.5	2-11	15.5	2-12
21-0	16.0	2-9	16.0	2-10	16.0	2-11	16.0	2-12	16.0	2-12
22-0	17.0	2-9	17.0	2-10	17.0	2-11	17.0	2-12	17.0	2-12
23-0	18.0	2-9	18.0	2-10	18.0	2-11	18.0	2-12	18.0	2-12
24-0	19.0	2-10	19.0	2-11	19.0	2-12	19.0	2-12	19.0	2-13
25-0	20.0	2-10	20.0	2-11	20.0	2-12	20.0	2-12	20.0	2-13
26-0	21.0	2-10	21.0	2-11	21.0	2-12	21.0	2-12	21.0	2-13
27-0	22.0	2-10	22.0	2-11	22.0	2-12	22.0	2-12	22.0	2-13
28-0	23.0	2-10	23.0	2-11	23.0	2-12	23.0	2-12	23.0	2-13
29-0	24.0	2-10	24.0	2-11	24.0	2-12	24.0	2-12	24.0	2-13
30-0	25.0	2-10	25.0	2-11	25.0	2-12	25.0	2-12	25.0	2-13

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

100 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.179		0.207		0.064		0.083		0.105	
C to C Beams	6'-6"		7'-0"		3'-6"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-1	6.5	2-2	6.5	1-3	6.5	1-3	6.5	1-4
6-6	6.5	2-2	6.5	2-2	6.5	1-3	6.5	1-4	6.5	2-1
7-0	6.5	2-3	6.5	2-3	6.5	1-4	6.5	2-2	6.5	2-2
7-6	6.5	2-3	6.5	2-4	6.5	2-2	6.5	2-2	6.5	2-3
8-0	7.0	2-4	7.0	2-4	7.0	2-2	7.0	2-3	7.0	2-3
8-6	7.0	2-4	8.0	2-5	7.0	2-2	7.0	2-3	7.0	2-3
9-0	8.5	2-5	8.5	2-6	7.5	2-2	7.5	2-3	7.5	2-4
9-6	8.5	2-6	8.5	2-6	7.5	2-3	7.5	2-3	7.5	2-4
10-0	9.0	2-6	9.0	2-6	8.0	2-3	8.0	2-4	8.0	2-4
10-6	9.5	2-6	9.5	2-7	8.5	2-3	8.5	2-4	9.5	2-5
11-0	9.5	2-7	9.5	2-7	8.5	2-4	8.5	2-4	9.5	2-5
11-6	10.0	2-7	10.0	2-8	9.0	2-4	10.0	2-5	10.0	2-6
12-0	10.0	2-8	10.0	2-8	9.0	2-4	10.0	2-5	10.0	2-6
12-6	10.5	2-8	10.5	2-9	9.5	2-4	10.5	2-6	10.5	2-7
13-0	10.5	2-9	10.5	2-9	10.5	2-5	10.5	2-6	10.5	2-7
13-6	11.0	2-9	11.0	2-10	11.0	2-5	11.0	2-6	11.0	2-7
14-0	11.5	2-9	11.5	2-10	11.5	2-6	11.5	2-7	11.5	2-8
14-6	11.5	2-10	11.5	2-10	11.5	2-6	11.5	2-7	11.5	2-8
15-0	12.0	2-10	12.0	2-11	12.0	2-6	12.0	2-8	12.0	2-9
15-6	12.5	2-10	12.5	2-11	12.5	2-7	12.5	2-8	12.5	2-9
16-0	12.5	2-11	12.5	2-11	12.5	2-7	12.5	2-8	12.5	2-9
16-6	13.0	2-11	13.0	2-12	13.0	2-7	13.0	2-8	13.0	2-9
17-0	13.0	2-11	13.0	2-12	13.0	2-8	13.0	2-9	13.0	2-10
17-6	13.5	2-11	13.5	2-12	13.5	2-8	13.5	2-9	13.5	2-10
18-0	14.0	2-12	14.0	2-12	14.0	2-8	14.0	2-9	14.0	2-10
18-6	14.5	2-12	14.5	2-12	14.5	2-8	14.5	2-9	14.5	2-10
19-0	14.5	2-12	14.5	2-12	14.5	2-8	14.5	2-10	14.5	2-11
19-6	15.0	2-12	15.0	2-12	15.0	2-9	15.0	2-10	15.0	2-11
20-0	15.5	2-12	15.5	2-12	15.5	2-9	15.5	2-10	15.5	2-11
21-0	16.0	2-12	16.0	2-13	16.0	2-9	16.0	2-11	16.0	2-12
22-0	17.0	2-12	17.0	2-13	17.0	2-9	17.0	2-11	17.0	2-12
23-0	18.0	2-13	18.0	2-13	18.0	2-10	18.0	2-11	18.0	2-12
24-0	19.0	2-14	19.0	2-15	19.0	2-11	19.0	2-12	19.0	2-12
25-0	20.0	2-14	20.0	2-15	20.0	2-11	20.0	2-12	20.0	2-12
26-0	21.0	2-14	21.0	2-15	21.0	2-11	21.0	2-12	21.0	2-12
27-0	22.0	2-14	22.0	2-15	22.0	2-11	22.0	2-12	22.0	2-12
28-0	23.0	2-14	23.0	2-15	23.0	2-11	23.0	2-12	23.0	2-12
29-0	24.0	2-14	24.0	2-15	24.0	2-11	24.0	2-12	24.0	2-12
30-0	25.0	2-14	25.0	2-15	25.0	2-11	25.0	2-12	25.0	2-12



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3-inch Slab

Safe Live Load in Pounds per Square Foot

100 Lbs.

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.130		0.157		0.187		0.075		0.098	
C to C Beams	5'-0"		5'-6"		6'-0"		3'-6"		4'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-1	6.5	2-2	6.5	2-2	6.5	1-3	6.5	1-4
6-6	6.5	2-2	6.5	2-2	6.5	2-3	6.5	1-4	6.5	2-2
7-0	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-2	6.5	2-2
7-6	6.5	2-3	6.5	2-4	6.5	2-4	6.5	2-2	6.5	2-3
8-0	7.0	2-4	7.0	2-4	8.0	2-5	7.0	2-3	7.0	2-3
8-6	7.0	2-4	7.0	2-4	8.0	2-6	7.0	2-3	7.0	2-4
9-0	7.5	2-4	8.5	2-5	8.5	2-6	7.5	2-4	7.5	2-4
9-6	8.5	2-5	8.5	2-6	8.5	2-7	7.5	2-4	7.5	2-4
10-0	9.0	2-5	9.0	2-6	9.0	2-7	8.0	2-4	9.0	2-5
10-6	9.5	2-6	9.5	2-7	9.5	2-7	8.5	2-4	9.5	2-6
11-0	9.5	2-6	9.5	2-7	9.5	2-8	8.5	2-4	9.5	2-6
11-6	10.0	2-7	10.0	2-8	10.0	2-8	10.0	2-5	10.0	2-6
12-0	10.0	2-7	10.0	2-8	10.0	2-9	10.0	2-6	10.0	2-7
12-6	10.5	2-8	10.5	2-9	10.5	2-9	10.5	2-6	10.5	2-7
13-0	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-7	10.5	2-8
13-6	11.0	2-9	11.0	2-9	11.0	2-10	11.0	2-7	11.0	2-8
14-0	11.5	2-9	11.5	2-10	11.5	2-10	11.5	2-7	11.5	2-8
14-6	11.5	2-9	11.5	2-10	11.5	2-11	11.5	2-7	11.5	2-9
15-0	12.0	2-9	12.0	2-10	12.0	2-11	12.0	2-8	12.0	2-9
15-6	12.5	2-10	12.5	2-11	12.5	2-11	12.5	2-8	12.5	2-9
16-0	12.5	2-10	12.5	2-11	12.5	2-12	12.5	2-8	12.5	2-10
16-6	13.0	2-10	13.0	2-11	13.0	2-12	13.0	2-9	13.0	2-10
17-0	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-9	13.0	2-10
17-6	13.5	2-11	13.5	2-12	13.5	2-12	13.5	2-9	13.5	2-10
18-0	14.0	2-11	14.0	2-12	14.0	2-12	14.0	2-10	14.0	2-11
18-6	14.5	2-11	14.5	2-12	14.5	2-12	14.5	2-10	14.5	2-11
19-0	14.5	2-12	14.5	2-12	14.5	2-13	14.5	2-10	14.5	2-11
19-6	15.0	2-12	15.0	2-12	15.0	2-13	15.0	2-10	15.0	2-11
20-0	15.5	2-12	15.5	2-12	15.5	2-13	15.5	2-10	15.5	2-12
21-0	16.0	2-12	16.0	2-13	16.0	2-14	16.0	2-11	16.0	2-12
22-0	17.0	2-12	17.0	2-13	17.0	2-14	17.0	2-11	17.0	2-12
23-0	18.0	2-12	18.0	2-13	18.0	2-14	18.0	2-11	18.0	2-12
24-0	19.0	2-13	19.0	2-14	19.0	2-15	19.0	2-12	19.0	2-13
25-0	20.0	2-13	20.0	2-14	20.0	2-15	20.0	2-12	20.0	2-13
26-0	21.0	2-13	21.0	2-14	21.0	2-15	21.0	2-12	21.0	2-13
27-0	22.0	2-13	22.0	2-15	22.0	2-15	22.0	2-12	22.0	2-13
28-0	23.0	2-13	23.0	2-15	23.0	2-15	23.0	2-12	23.0	2-13
29-0	24.0	2-13	24.0	2-15	24.0	2-15	24.0	2-12	24.0	2-13
30-0	25.0	2-13	25.0	2-15	25.0	2-15	25.0	2-12	25.0	2-13

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3-inch Slab

Safe Live Load in Pounds per Square Foot

125 Lbs.

150 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.124		0.154		0.186		0.221		0.064	
C to C Beams	4'-6"		5'-0"		5'-6"		6'-0"		3'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-1	6.5	2-2	6.5	2-2	6.5	2-3	6.5	1-3
6-6	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-3	6.5	1-4
7-0	6.5	2-3	6.5	2-3	6.5	2-4	6.5	2-4	6.5	2-2
7-6	6.5	2-3	6.5	2-4	6.5	2-4	7.5	2-6	6.5	2-2
8-0	7.0	2-4	8.0	2-5	8.0	2-6	8.0	2-6	7.0	2-3
8-6	7.0	2-4	8.0	2-6	8.0	2-6	8.0	2-7	7.0	2-3
9-0	8.5	2-5	8.5	2-7	8.5	2-7	8.5	2-8	7.5	2-3
9-6	8.5	2-6	8.5	2-7	8.5	2-7	8.5	2-8	7.5	2-4
10-0	9.0	2-6	9.0	2-7	9.0	2-8	9.0	2-9	8.0	2-4
10-6	9.5	2-6	9.5	2-7	9.5	2-8	9.5	2-9	8.5	2-4
11-0	9.5	2-7	9.5	2-8	9.5	2-8	9.5	2-9	8.5	2-4
11-6	10.0	2-7	10.0	2-8	10.0	2-9	10.0	2-10	10.0	2-5
12-0	10.0	2-8	10.0	2-9	10.0	2-10	10.0	2-10	10.0	2-6
12-6	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-11	10.5	2-6
13-0	10.5	2-9	10.5	2-10	10.5	2-11	10.5	2-12	10.5	2-7
13-6	11.0	2-9	11.0	2-10	11.0	2-11	11.0	2-12	11.0	2-7
14-0	11.5	2-9	11.5	2-10	11.5	2-11	11.5	2-12	11.5	2-7
14-6	11.5	2-10	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-7
15-0	12.0	2-10	12.0	2-11	12.0	2-12	12.0	2-12	12.0	2-8
15-6	12.5	2-10	12.5	2-11	12.5	2-12	12.5	2-12	12.5	2-8
16-0	12.5	2-11	12.5	2-12	12.5	2-12	12.5	2-13	12.5	2-8
16-6	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-13	13.0	2-9
17-0	13.0	2-12	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-9
17-6	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-14	13.5	2-9
18-0	14.0	2-12	14.0	2-12	14.0	2-13	14.0	2-14	14.0	2-9
18-6	14.5	2-12	14.5	2-12	14.5	2-13	14.5	2-14	14.5	2-10
19-0	14.5	2-12	14.5	2-12	14.5	2-14	14.5	2-15	14.5	2-10
19-6	15.0	2-12	15.0	2-13	15.0	2-14	15.0	2-15	15.0	2-10
20-0	15.5	2-12	15.5	2-13	15.5	2-14	15.5	2-15	15.5	2-10
21-0	16.0	2-12	16.0	2-13	16.0	2-15	16.0	2-16	16.0	2-11
22-0	17.0	2-13	17.0	2-14	17.0	2-15	17.0	2-16	17.0	2-11
23-0	18.0	2-13	18.0	2-14	18.0	2-15	18.0	2-16	18.0	2-11
24-0	19.0	2-14	19.0	2-15	19.0	2-16	19.0	2-17	19.0	2-12
25-0	20.0	2-14	20.0	2-15	20.0	2-16	20.0	2-18	20.0	2-12
26-0	21.0	2-14	21.0	2-15	21.0	2-16	21.0	2-18	21.0	2-12
27-0	22.0	2-14	22.0	2-15	22.0	2-17	22.0	2-18	22.0	2-12
28-0	23.0	2-14	23.0	2-15	23.0	2-17	23.0	2-18	23.0	2-12
29-0	24.0	2-14	24.0	2-15	24.0	2-17	24.0	2-18	24.0	2-12
30-0	25.0	2-14	25.0	2-15	25.0	2-17	25.0	2-18	25.0	2-12

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3-inch Slab

Safe Live Load in Pounds per Square Foot

150 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.087		0.113		0.144		0.177		0.215	
C to C Beams	3'-6"		4'-0"		4'-6"		5'-0"		5'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	1-4	6.5	2-1	6.5	2-2	6.5	2-2	6.5	2-3
6-6	6.5	2-2	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-4
7-0	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-4	7.5	2-5
7-6	6.5	2-3	6.5	2-4	6.5	2-4	7.5	2-5	7.5	2-6
8-0	7.0	2-3	7.0	2-4	8.0	2-5	8.0	2-6	8.0	2-7
8-6	7.0	2-4	7.0	2-4	8.0	2-6	8.0	2-7	8.0	2-8
9-0	7.5	2-4	8.5	2-5	8.5	2-6	8.5	2-7	8.5	2-8
9-6	7.5	2-4	8.5	2-6	8.5	2-7	8.5	2-8	8.5	2-9
10-0	9.0	2-5	9.0	2-6	9.0	2-7	9.0	2-8	9.0	2-9
10-6	9.5	2-6	9.5	2-7	9.5	2-8	9.5	2-9	9.5	2-10
11-0	9.5	2-6	9.5	2-7	9.5	2-8	9.5	2-9	9.5	2-10
11-6	10.0	2-6	10.0	2-8	10.0	2-9	10.0	2-10	10.0	2-11
12-0	10.0	2-7	10.0	2-8	10.0	2-9	10.0	2-10	10.0	2-11
12-6	10.5	2-7	10.5	2-9	10.5	2-10	10.5	2-11	10.5	2-12
13-0	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-11	10.5	2-12
13-6	11.0	2-8	11.0	2-9	11.0	2-10	11.0	2-11	11.0	2-12
14-0	11.5	2-8	11.5	2-10	11.5	2-11	11.5	2-12	11.5	2-12
14-6	11.5	2-9	11.5	2-10	11.5	2-11	11.5	2-12	11.5	2-12
15-0	12.0	2-9	12.0	2-10	12.0	2-12	12.0	2-12	12.0	2-13
15-6	12.5	2-9	12.5	2-11	12.5	2-12	12.5	2-12	12.5	2-13
16-0	12.5	2-10	12.5	2-11	12.5	2-12	12.5	2-12	12.5	2-13
16-6	13.0	2-10	13.0	2-11	13.0	2-12	13.0	2-13	13.0	2-14
17-0	13.0	2-10	13.0	2-12	13.0	2-12	13.0	2-13	13.0	2-14
17-6	13.5	2-10	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-14
18-0	14.0	2-11	14.0	2-12	14.0	2-13	14.0	2-14	14.0	2-15
18-6	14.5	2-11	14.5	2-12	14.5	2-13	14.5	2-14	14.5	2-15
19-0	14.5	2-11	14.5	2-12	14.5	2-13	14.5	2-14	14.5	2-15
19-6	15.0	2-11	15.0	2-12	15.0	2-13	15.0	2-14	15.0	2-16
20-0	15.5	2-12	15.5	2-12	15.5	2-13	15.5	2-15	15.5	2-16
21-0	16.0	2-12	16.0	2-13	16.0	2-14	16.0	2-15	16.0	2-17
22-0	17.0	2-12	17.0	2-13	17.0	2-14	17.0	2-16	17.0	2-17
23-0	18.0	2-12	18.0	2-13	18.0	2-14	18.0	2-16	18.0	2-17
24-0	19.0	2-13	19.0	2-14	19.0	2-16	19.0	2-17	19.0	2-18
25-0	20.0	2-13	20.0	2-14	20.0	2-16	20.0	2-17	20.0	2-18
26-0	21.0	2-13	21.0	2-14	21.0	2-16	21.0	2-17	21.0	2-18
27-0	22.0	2-13	22.0	2-14	22.0	2-16	22.0	2-17	22.0	2-18
28-0	23.0	2-13	23.0	2-14	23.0	2-16	23.0	2-17	23.0	2-18
29-0	24.0	2-13	24.0	2-14	24.0	2-16	24.0	2-17	24.0	2-18
30-0	25.0	2-13	25.0	2-14	25.0	2-17	25.0	2-18	25.5	2-19

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3-inch Slab

Safe Live Load in Pounds per Square Foot

200 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.081		0.110		0.144		0.182		0.225	
C to C Beams	3'-0"		3'-6"		4'-0"		4'-6"		5'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-1	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-3
6-6	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-4	6.5	2-4
7-0	6.5	2-3	6.5	2-3	6.5	2-4	7.5	2-5	7.5	2-6
7-6	6.5	2-3	6.5	2-4	7.5	2-5	7.5	2-6	8.0	2-8
8-0	7.0	2-4	8.0	2-5	8.0	2-6	8.0	2-8	8.0	2-8
8-6	7.0	2-4	8.0	2-6	8.0	2-7	8.0	2-8	8.5	2-9
9-0	8.5	2-5	8.5	2-6	8.5	2-8	8.5	2-9	8.5	2-9
9-6	8.5	2-6	8.5	2-7	8.5	2-8	8.5	2-9	9.0	2-10
10-0	9.0	2-6	9.0	2-7	9.0	2-8	9.0	2-10	9.5	2-10
10-6	9.5	2-6	9.5	2-7	9.5	2-9	9.5	2-10	9.5	2-11
11-0	9.5	2-7	9.5	2-8	9.5	2-9	9.5	2-11	10.0	2-11
11-6	10.0	2-7	10.0	2-8	10.0	2-10	10.0	2-11	10.0	2-12
12-0	10.0	2-8	10.0	2-9	10.0	2-10	10.0	2-12	10.5	2-12
12-6	10.5	2-8	10.5	2-9	10.5	2-11	10.5	2-12	11.0	2-12
13-0	10.5	2-9	10.5	2-10	10.5	2-11	11.0	2-12	11.0	2-12
13-6	11.0	2-9	11.0	2-10	11.0	2-12	11.0	2-12	11.5	2-13
14-0	11.5	2-9	11.5	2-11	11.5	2-12	11.5	2-12	12.0	2-13
14-6	11.5	2-9	11.5	2-11	11.5	2-12	11.5	2-13	12.0	2-13
15-0	12.0	2-10	12.0	2-12	12.0	2-12	12.0	2-13	12.5	2-14
15-6	12.5	2-10	12.5	2-12	12.5	2-12	12.5	2-14	13.0	2-14
16-0	12.5	2-10	12.5	2-12	12.5	2-12	12.5	2-14	13.0	2-14
16-6	13.0	2-11	13.0	2-12	13.0	2-13	13.0	2-14	13.5	2-15
17-0	13.0	2-11	13.0	2-12	13.0	2-13	13.5	2-14	14.0	2-15
17-6	13.5	2-11	13.5	2-12	13.5	2-14	14.0	2-15	14.5	2-15
18-0	14.0	2-12	14.0	2-12	14.0	2-14	14.0	2-15	15.0	2-16
18-6	14.5	2-12	14.5	2-13	14.5	2-14	14.5	2-15	15.5	2-16
19-0	14.5	2-12	14.5	2-13	14.5	2-14	15.0	2-16	15.5	2-16
19-6	15.0	2-12	15.0	2-13	15.0	2-15	15.0	2-16	16.0	2-16
20-0	15.5	2-12	15.5	2-13	15.5	2-15	16.0	2-16	16.5	2-16
21-0	16.0	2-12	16.0	2-14	16.0	2-15	16.5	2-16	18.0	2-17
22-0	17.0	2-12	17.0	2-14	17.0	2-15	18.0	2-17	19.0	2-17
23-0	18.0	2-12	18.0	2-14	18.0	2-16	19.0	2-17	20.0	2-17
24-0	19.0	2-13	19.0	2-15	19.0	2-17	20.0	2-17	21.0	2-18
25-0	20.0	2-14	20.0	2-15	20.0	2-17	21.0	2-18	22.0	2-18
26-0	21.0	2-14	21.0	2-16	21.0	2-17	22.0	2-18	23.0	2-18
27-0	22.0	2-14	22.0	2-16	22.0	2-17	23.0	2-18	24.0	2-18
28-0	23.0	2-14	23.0	2-16	23.0	2-17	24.0	2-18	25.0	2-19
29-0	24.0	2-14	24.0	2-16	24.0	2-17	25.0	2-18	26.0	2-19
30-0	25.0	2-14	25.0	2-16	25.0	2-17	26.0	2-18	27.0	2-19

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3-inch Slab

Safe Live Load in Pounds per Square Foot

250 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.098		0.134		0.175		0.221	
C to C Beams	3'-0"		3'-6"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	6.5	2-2	6.5	2-3	6.5	2-3	7.5	2-5
6-6	6.5	2-3	6.5	2-4	6.5	2-4	7.5	2-7
7-0	6.5	2-4	6.5	2-4	7.5	2-6	7.5	2-7
7-6	6.5	2-4	7.5	2-6	7.5	2-7	8.0	2-8
8-0	8.0	2-6	8.0	2-7	8.0	2-8	8.5	2-9
8-6	8.0	2-6	8.0	2-8	8.5	2-9	8.5	2-9
9-0	8.5	2-6	8.5	2-8	8.5	2-9	9.0	2-9
9-6	8.5	2-7	8.5	2-8	9.0	2-10	9.5	2-10
10-0	9.0	2-7	9.0	2-9	9.5	2-10	9.5	2-11
10-6	9.5	2-8	9.5	2-9	9.5	2-11	10.0	2-11
11-0	9.5	2-8	9.5	2-10	10.0	2-11	10.0	2-12
11-6	10.0	2-9	10.0	2-10	10.0	2-12	10.5	2-12
12-0	10.0	2-9	10.0	2-11	10.5	2-12	11.0	2-12
12-6	10.5	2-10	10.5	2-11	10.5	2-12	11.0	2-12
13-0	10.5	2-10	10.5	2-12	11.0	2-12	11.5	2-13
13-6	11.0	2-11	11.0	2-12	11.5	2-12	12.0	2-13
14-0	11.5	2-11	11.5	2-12	11.5	2-13	12.5	2-14
14-6	11.5	2-11	11.5	2-12	12.0	2-13	12.5	2-14
15-0	12.0	2-12	12.0	2-13	12.5	2-14	13.0	2-14
15-6	12.5	2-12	12.5	2-13	12.5	2-14	13.5	2-14
16-0	12.5	2-12	12.5	2-13	13.0	2-14	13.5	2-14
16-6	13.0	2-12	13.0	2-14	13.5	2-14	14.0	2-15
17-0	13.0	2-12	13.0	2-14	14.0	2-15	14.5	2-15
17-6	13.5	2-12	13.5	2-14	14.0	2-15	15.0	2-16
18-0	14.0	2-13	14.0	2-15	14.5	2-15	15.5	2-16
18-6	14.5	2-13	14.5	2-15	15.0	2-16	16.0	2-16
19-0	14.5	2-13	14.5	2-15	15.5	2-16	16.5	2-16
19-6	15.0	2-13	15.0	2-15	16.0	2-16	17.0	2-17
20-0	15.5	2-14	15.5	2-15	16.5	2-16	18.0	2-17
21-0	16.0	2-14	16.0	2-16	17.0	2-17	18.5	2-17
22-0	17.0	2-15	17.0	2-16	18.0	2-17	18.5	2-18
23-0	18.0	2-15	18.0	2-16	18.5	2-18	19.0	2-18
24-0	19.0	2-16	19.0	2-18	19.0	2-18	19.5	2-18
25-0	20.0	2-16	20.0	2-18	20.0	2-18	20.5	2-19
26-0	21.0	2-16	21.0	2-18	21.0	2-18	21.5	2-19
27-0	22.0	2-16	22.0	2-18	22.5	2-19	23.0	2-19
28-0	23.0	2-16	23.0	2-18	23.5	2-19	24.0	2-20
29-0	24.0	2-16	24.0	2-18	24.5	2-19	25.0	2-20
30-0	25.0	2-16	25.0	2-18	25.5	2-19	26.0	2-20

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3-inch Slab

Safe Live Load in Pounds per Square Foot

		300 Lbs.				350 Lbs.			
		Area of Steel per Lineal Foot of Slab							
Sq. In.	0.115		0.154		0.205		0.132		
C to C Beams	3'-0"		3'-6"		4'-0"		3'-0"		
Span Ft., In.	D	F	D	F	D	F	D	F	
6-0	6.5	2-3	6.5	2-3	6.5	2-4	6.5	2-3	
6-6	6.5	2-4	6.5	2-4	7.5	2-7	6.5	2-4	
7-0	6.5	2-4	7.5	2-7	8.0	2-7	7.5	2-7	
7-6	7.5	2-6	8.0	2-8	8.0	2-8	8.0	2-7	
8-0	8.0	2-7	8.0	2-8	8.5	2-9	8.0	2-8	
8-6	8.0	2-8	8.5	2-9	9.0	2-9	8.5	2-9	
9-0	8.5	2-8	8.5	2-9	9.0	2-10	8.5	2-9	
9-6	8.5	2-9	9.0	2-10	9.5	2-10	9.0	2-9	
10-0	9.0	2-9	9.5	2-10	10.0	2-11	9.5	2-10	
10-6	9.5	2-9	9.5	2-11	10.0	2-12	9.5	2-11	
11-0	9.5	2-10	10.0	2-11	10.5	2-12	10.0	2-11	
11-6	10.0	2-10	10.0	2-12	11.0	2-12	10.0	2-12	
12-0	10.0	2-11	10.5	2-12	11.0	2-12	10.5	2-12	
12-6	10.5	2-11	11.0	2-12	11.5	2-12	11.0	2-12	
13-0	10.5	2-12	11.0	2-12	11.5	2-13	11.0	2-12	
13-6	11.0	2-12	11.5	2-13	12.0	2-13	11.5	2-12	
14-0	11.5	2-12	12.0	2-13	12.5	2-14	12.0	2-13	
14-6	11.5	2-12	12.0	2-13	12.5	2-14	12.0	2-13	
15-0	12.0	2-13	12.5	2-14	13.0	2-14	12.5	2-14	
15-6	12.5	2-13	13.0	2-14	13.5	2-15	13.0	2-14	
16-0	12.5	2-13	13.0	2-14	14.0	2-15	13.0	2-14	
16-6	13.0	2-14	13.5	2-14	14.5	2-16	14.0	2-14	
17-0	13.0	2-14	14.0	2-15	15.0	2-16	14.0	2-15	
17-6	13.5	2-14	14.5	2-15	15.5	2-16	14.5	2-15	
18-0	14.0	2-15	15.0	2-16	16.0	2-16	15.0	2-16	
18-6	14.5	2-15	15.5	2-16	16.5	2-16	15.0	2-16	
19-0	14.5	2-15	16.0	2-16	17.0	2-17	15.5	2-16	
19-6	15.0	2-15	16.5	2-16	17.5	2-17	16.0	2-16	
20-0	15.5	2-16	17.0	2-17	18.0	2-17	16.5	2-16	
21-0	16.0	2-16	18.0	2-17	19.0	2-18	17.5	2-17	
22-0	17.0	2-17	19.0	2-18	20.0	2-18	18.0	2-17	
23-0	18.0	2-17	20.0	2-18	21.0	2-18	18.5	2-17	
24-0	19.0	2-18	21.0	2-18	22.0	2-19	19.0	2-18	
25-0	20.0	2-18	22.0	2-18	23.0	2-19	20.0	2-18	
26-0	21.0	2-18	23.0	2-19	24.0	2-19	21.0	2-18	
27-0	22.0	2-18	24.0	2-19	25.0	2-20	22.0	2-18	
28-0	23.0	2-18	25.0	2-19	26.0	2-20	23.0	2-18	
29-0	24.0	2-18	26.0	2-19	27.0	2-20	24.0	2-18	
30-0	25.0	2-18	27.0	2-19	28.0	2-20	25.5	2-19	

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3-inch Slab

Safe Live Load in Pounds per Square Foot

350 Lbs.

400 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.180		0.235		0.149		0.208	
C to C Beams	3'-6"		4'-0"		3'-0"		3'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	6.5	2-4	7.5	2-7	6.5	2-4	7.5	2-7
6-6	7.5	2-7	8.0	2-8	7.5	2-7	7.5	2-7
7-0	8.0	2-8	8.0	2-8	7.5	2-7	8.0	2-8
7-6	8.0	2-8	8.5	2-9	8.0	2-8	8.5	2-9
8-0	8.5	2-9	9.0	2-9	8.5	2-9	9.0	2-10
8-6	9.0	2-9	9.0	2-10	8.5	2-9	9.0	2-10
9-0	9.0	2-10	9.5	2-11	9.0	2-10	9.5	2-10
9-6	9.5	2-10	10.0	2-11	9.5	2-10	10.0	2-11
10-0	10.0	2-11	10.0	2-12	9.5	2-10	10.0	2-11
10-6	10.0	2-12	10.5	2-12	10.0	2-11	10.5	2-12
11-0	10.5	2-12	11.0	2-12	10.5	2-12	11.0	2-12
11-6	11.0	2-12	11.5	2-12	10.5	2-12	11.0	2-12
12-0	11.0	2-12	11.5	2-13	11.0	2-12	11.5	2-13
12-6	11.5	2-12	12.0	2-14	11.5	2-13	12.0	2-13
13-0	12.0	2-13	12.5	2-14	11.5	2-13	12.5	2-14
13-6	12.5	2-14	12.5	2-14	12.0	2-13	12.5	2-14
14-0	12.5	2-14	13.0	2-14	12.5	2-14	13.0	2-14
14-6	13.0	2-14	13.5	2-14	12.5	2-14	13.5	2-15
15-0	13.5	2-14	14.0	2-15	13.0	2-14	14.0	2-15
15-6	13.5	2-14	14.5	2-15	13.5	2-15	14.5	2-15
16-0	14.0	2-15	15.0	2-16	14.0	2-15	15.0	2-16
16-6	14.5	2-15	15.5	2-16	14.5	2-15	15.5	2-16
17-0	15.0	2-16	16.0	2-16	14.5	2-15	16.0	2-16
17-6	15.5	2-16	16.5	2-16	15.0	2-16	16.5	2-16
18-0	16.0	2-16	17.0	2-17	15.5	2-16	17.0	2-17
18-6	16.5	2-16	17.5	2-17	16.0	2-16	17.5	2-17
19-0	17.0	2-17	18.0	2-17	16.5	2-16	18.0	2-17
19-6	17.5	2-17	18.5	2-17	17.0	2-17	18.0	2-17
20-0	18.0	2-17	19.0	2-17	18.0	2-17	18.5	2-17
21-0	18.5	2-17	19.5	2-18	18.5	2-17	19.5	2-18
22-0	19.0	2-18	20.0	2-18	19.5	2-17	20.0	2-18
23-0	19.5	2-18	21.0	2-18	20.0	2-18	20.5	2-18
24-0	20.0	2-18	22.0	2-19	20.5	2-18	21.0	2-18
25-0	21.5	2-19	22.5	2-19	21.0	2-18	22.0	2-18
26-0	22.5	2-19	23.0	2-19	22.0	2-18	23.0	2-19
27-0	23.5	2-19	24.5	2-19	23.0	2-18	24.0	2-19
28-0	24.5	2-19	25.0	2-20	24.0	2-19	25.0	2-19
29-0	25.0	2-19	26.0	2-20	25.0	2-19	26.0	2-19
30-0	26.0	2-19	27.0	2-20	26.0	2-19	26.5	2-19

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.064		0.078		0.092		0.108		0.126	
C to C Beams	5'-0"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	6.5	1-3	6.5	1-4	6.5	1-4	6.5	2-2	6.5	2-2
7-6	6.5	1-4	6.5	2-1	6.5	2-2	6.5	2-2	6.5	2-2
8-0	7.0	2-1	7.0	2-2	7.0	2-2	7.0	2-2	7.0	2-3
8-6	7.0	2-2	7.0	2-2	7.0	2-2	7.0	2-3	7.0	2-3
9-0	7.5	2-2	7.5	2-2	7.5	2-3	7.5	2-3	7.5	2-4
9-6	7.5	2-2	7.5	2-3	7.5	2-3	7.5	2-3	7.5	2-4
10-0	8.0	2-2	8.0	2-3	8.0	2-3	8.0	2-4	8.0	2-4
10-6	8.5	2-3	8.5	2-3	8.5	2-3	8.5	2-4	8.5	2-4
11-0	8.5	2-3	8.5	2-3	8.5	2-4	8.5	2-4	9.5	2-5
11-6	9.0	2-3	9.0	2-3	9.0	2-4	9.0	2-4	10.0	2-5
12-0	9.0	2-3	9.0	2-4	9.0	2-4	10.0	2-5	10.0	2-6
12-6	9.5	2-4	9.5	2-4	10.5	2-5	10.5	2-6	10.5	2-6
13-0	9.5	2-4	9.5	2-4	10.5	2-5	10.5	2-6	10.5	2-7
13-6	10.0	2-4	11.0	2-5	11.0	2-5	11.0	2-6	11.0	2-7
14-0	10.5	2-4	11.5	2-5	11.5	2-6	11.5	2-6	11.5	2-7
14-6	10.5	2-4	11.5	2-6	11.5	2-6	11.5	2-7	11.5	2-8
15-0	12.0	2-5	12.0	2-6	12.0	2-7	12.0	2-7	12.0	2-8
15-6	12.5	2-6	12.5	2-7	12.5	2-7	12.5	2-8	12.5	2-9
16-0	12.5	2-6	12.5	2-7	12.5	2-8	12.5	2-8	12.5	2-9
16-6	13.0	2-6	13.0	2-7	13.0	2-8	13.0	2-8	13.0	2-9
17-0	13.0	2-6	13.0	2-7	13.0	2-8	13.0	2-9	13.0	2-9
17-6	13.5	2-7	13.5	2-8	13.5	2-8	13.5	2-9	13.5	2-10
18-0	13.5	2-7	13.5	2-8	13.5	2-8	13.5	2-9	13.5	2-10
18-6	14.0	2-7	14.0	2-8	14.0	2-9	14.0	2-9	14.0	2-10
19-0	14.5	2-7	14.5	2-8	14.5	2-9	14.5	2-10	14.5	2-10
19-6	14.5	2-8	14.5	2-9	14.5	2-9	14.5	2-10	14.5	2-11
20-0	15.0	2-8	15.0	2-9	15.0	2-9	15.0	2-10	15.0	2-11
21-0	15.5	2-8	15.5	2-9	15.5	2-10	15.5	2-10	15.5	2-11
22-0	16.5	2-9	16.5	2-10	16.5	2-10	16.5	2-11	16.5	2-12
23-0	17.0	2-9	17.0	2-10	17.0	2-11	17.0	2-12	17.0	2-12
24-0	17.5	2-9	17.5	2-10	17.5	2-11	17.5	2-12	17.5	2-12
25-0	18.5	2-10	18.5	2-11	18.5	2-12	18.5	2-12	18.5	2-12
26-0	19.5	2-10	19.5	2-11	19.5	2-12	19.5	2-12	19.5	2-12
27-0	20.5	2-10	20.5	2-11	20.5	2-12	20.5	2-12	20.5	2-13
28-0	21.5	2-11	21.5	2-12	21.5	2-12	21.5	2-12	21.5	2-13
29-0	22.5	2-11	22.5	2-12	22.5	2-12	22.5	2-12	22.5	2-13
30-0	23.0	2-11	23.0	2-12	23.0	2-12	23.0	2-12	23.0	2-13



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.144		0.164		0.185		0.207		0.072	
C to C Beams	7'-8"		8'-0"		8'-6"		9'-0"		5'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	6.5	1-4
7-6	6.5	2-3	..	..	..	..	..	..	6.5	2-1
8-0	7.0	2-3	7.0	2-3	..	..	..	..	7.0	2-2
8-6	7.0	2-3	7.0	2-4	7.0	2-4	..	..	7.0	2-2
9-0	7.5	2-4	7.5	2-4	7.5	2-4	8.5	2-5	7.5	2-2
9-6	7.5	2-4	7.5	2-4	8.5	2-5	8.5	2-6	7.5	2-3
10-0	8.0	2-4	9.0	2-5	9.0	2-6	9.0	2-6	8.0	2-3
10-6	9.5	2-5	9.5	2-5	9.5	2-6	9.5	2-6	8.5	2-3
11-0	9.5	2-5	9.5	2-6	9.5	2-7	9.5	2-7	8.5	2-3
11-6	10.0	2-6	10.0	2-6	10.0	2-7	10.0	2-7	9.0	2-4
12-0	10.0	2-6	10.0	2-7	10.0	2-7	10.0	2-8	9.5	2-4
12-6	10.5	2-7	10.5	2-7	10.5	2-8	10.5	2-8	9.5	2-4
13-0	10.5	2-7	10.5	2-8	10.5	2-8	10.5	2-9	10.5	2-5
13-6	11.0	2-7	11.0	2-8	11.0	2-8	11.0	2-9	11.0	2-5
14-0	11.5	2-8	11.5	2-8	11.5	2-9	11.5	2-9	11.5	2-5
14-6	11.5	2-8	11.5	2-9	11.5	2-9	11.5	2-10	11.5	2-6
15-0	12.0	2-9	12.0	2-9	12.0	2-10	12.0	2-10	12.0	2-6
15-6	12.5	2-9	12.5	2-10	12.5	2-10	12.5	2-11	12.5	2-7
16-0	12.5	2-10	12.5	2-10	12.5	2-11	12.5	2-11	12.5	2-7
16-6	13.0	2-10	13.0	2-10	13.0	2-11	13.0	2-11	13.0	2-7
17-0	13.0	2-10	13.0	2-11	13.0	2-11	13.0	2-12	13.0	2-7
17-6	13.5	2-10	13.5	2-11	13.5	2-11	13.5	2-12	13.5	2-8
18-0	13.5	2-11	13.5	2-11	13.5	2-12	13.5	2-12	13.5	2-8
18-6	14.0	2-11	14.0	2-11	14.0	2-12	14.0	2-12	14.0	2-8
19-0	14.5	2-11	14.5	2-12	14.5	2-12	14.5	2-12	14.5	2-8
19-6	14.5	2-11	14.5	2-12	14.5	2-12	14.5	2-12	14.5	2-9
20-0	15.0	2-11	15.0	2-12	15.0	2-12	15.0	2-12	15.0	2-9
21-0	15.5	2-12	15.5	2-12	15.5	2-12	15.5	2-13	15.5	2-9
22-0	16.5	2-12	16.5	2-12	16.5	2-13	16.5	2-14	16.5	2-10
22-6	17.0	2-12	17.0	2-13	17.0	2-13	17.0	2-14	17.0	2-10
24-0	17.5	2-12	17.5	2-13	17.5	2-14	17.5	2-14	17.5	2-10
25-0	18.5	2-13	18.5	2-13	18.5	2-14	18.5	2-15	18.5	2-11
26-0	19.5	2-13	19.5	2-14	19.5	2-14	19.5	2-15	19.5	2-11
27-0	20.5	2-13	20.5	2-14	20.5	2-15	20.5	2-15	20.5	2-11
28-0	21.5	2-14	21.5	2-15	21.5	2-15	21.5	2-16	21.5	2-12
29-0	22.5	2-14	22.5	2-15	22.5	2-15	22.5	2-16	22.5	2-12
30-0	23.0	2-14	23.0	2-15	23.0	2-15	23.0	2-16	23.0	2-12

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.087		0.108		0.121		0.141		0.162	
C to C Beams	5'-6"		6'-0"		6'-6"		7'-0"		7'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	6.5	2-1	6.5	2-2	6.5	2-2	6.5	2-2	. .	. .
7-6	6.5	2-2	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-3
8-0	7.0	2-2	7.0	2-3	7.0	2-3	7.0	2-3	7.0	2-4
8-6	7.0	2-3	7.0	2-3	7.0	2-3	7.0	2-4	7.0	2-4
9-0	7.5	2-3	7.5	2-3	7.5	2-4	7.5	2-4	7.5	2-4
9-6	7.5	2-3	7.5	2-3	7.5	2-4	7.5	2-4	8.5	2-5
10-0	8.0	2-3	8.0	2-4	8.0	2-4	9.0	2-5	9.0	2-5
10-6	8.5	2-3	8.5	2-4	8.5	2-4	9.5	2-5	9.5	2-6
11-0	8.5	2-4	8.5	2-4	9.5	2-5	9.5	2-6	9.5	2-6
11-6	9.0	2-4	10.0	2-5	10.0	2-6	10.0	2-6	10.0	2-7
12-0	9.5	2-4	10.0	2-5	10.0	2-6	10.0	2-7	10.0	2-7
12-6	10.5	2-5	10.5	2-6	10.5	2-7	10.5	2-7	10.5	2-8
13-0	10.5	2-6	10.5	2-6	10.5	2-7	10.5	2-8	10.5	2-8
13-6	11.0	2-6	11.0	2-6	11.0	2-7	11.0	2-8	11.0	2-8
14-0	11.5	2-6	11.5	2-7	11.5	2-8	11.5	2-8	11.5	2-9
14-6	11.5	2-7	11.5	2-7	11.5	2-8	11.5	2-9	11.5	2-9
15-0	12.0	2-7	12.0	2-8	12.0	2-8	12.0	2-9	12.0	2-10
15-6	12.5	2-8	12.5	2-8	12.5	2-9	12.5	2-10	12.5	2-10
16-0	12.5	2-8	12.5	2-9	12.5	2-9	12.5	2-10	12.5	2-11
16-6	13.0	2-8	13.0	2-9	13.0	2-9	13.0	2-10	13.0	2-11
17-0	13.0	2-8	13.0	2-9	13.0	2-10	13.0	2-10	13.0	2-11
17-6	13.5	2-8	13.5	2-9	13.5	2-10	13.5	2-11	13.5	2-11
18-0	13.5	2-9	13.5	2-10	13.5	2-10	13.5	2-11	13.5	2-12
18-6	14.0	2-9	14.0	2-10	14.0	2-10	14.0	2-11	14.0	2-12
19-0	14.5	2-9	14.5	2-10	14.5	2-11	14.5	2-12	14.5	2-12
19-6	14.5	2-10	14.5	2-10	14.5	2-11	14.5	2-12	14.5	2-12
20-0	15.0	2-10	15.0	2-11	15.0	2-11	15.0	2-12	15.0	2-12
21-0	15.5	2-10	15.5	2-11	15.5	2-11	15.5	2-12	15.5	2-12
22-0	16.5	2-11	16.5	2-11	16.5	2-12	16.5	2-12	16.5	2-13
23-0	17.0	2-11	17.0	2-12	17.0	2-12	17.0	2-12	17.0	2-13
24-0	17.5	2-11	17.5	2-12	17.5	2-12	17.5	2-13	17.5	2-14
25-0	18.5	2-12	18.5	2-12	18.5	2-12	18.5	2-13	18.5	2-14
26-0	19.5	2-12	19.5	2-12	19.5	2-13	19.5	2-14	19.5	2-14
27-0	20.5	2-12	20.5	2-12	20.5	2-13	20.5	2-14	20.5	2-15
28-0	21.5	2-12	21.5	2-13	21.5	2-14	21.5	2-15	21.5	2-15
29-0	22.5	2-12	22.5	2-13	22.5	2-14	22.5	2-15	22.5	2-15
30-0	23.0	2-12	23.0	2-13	23.0	2-14	23.0	2-15	23.0	2-15

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

75 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.184		0.207		0.232		0.074		0.091	
C to C Beams	8'-0"		8'-6"		9'-0"		4'-6"		5'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	6.5	1-3	6.5	1-4
6-6	..	..	..	..	..	..	6.5	1-4	6.5	1-4
7-0	..	..	..	..	..	..	6.5	2-1	6.5	2-2
7-6	..	..	..	..	..	..	6.5	2-2	6.5	2-2
8-0	7.0	2-4	..	..	..	..	7.0	2-2	7.0	2-3
8-6	7.0	2-4	8.0	2-5	..	..	7.0	2-3	7.0	2-3
9-0	8.5	2-5	8.5	2-6	8.5	2-6	7.5	2-3	7.5	2-3
9-6	8.5	2-6	8.5	2-6	8.5	2-7	7.5	2-3	7.5	2-4
10-0	9.0	2-6	9.0	2-6	9.0	2-7	8.0	2-3	8.0	2-4
10-6	9.5	2-6	9.5	2-7	9.5	2-7	8.5	2-4	9.5	2-5
11-0	9.5	2-7	9.5	2-7	9.5	2-8	8.5	2-4	9.5	2-5
11-6	10.0	2-7	10.0	2-8	10.0	2-8	9.0	2-4	10.0	2-5
12-0	10.0	2-8	10.0	2-8	10.0	2-9	10.0	2-5	10.0	2-6
12-6	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-6	10.5	2-6
13-0	10.5	2-9	10.5	2-9	10.5	2-10	10.5	2-6	10.5	2-7
13-6	11.0	2-9	11.0	2-10	11.0	2-10	11.0	2-6	11.0	2-7
14-0	11.5	2-9	11.5	2-10	11.5	2-11	11.5	2-6	11.5	2-7
14-6	11.5	2-10	11.5	2-10	11.5	2-11	11.5	2-7	11.5	2-8
15-0	12.0	2-10	12.0	2-11	12.0	2-11	12.0	2-7	12.0	2-8
15-6	12.5	2-11	12.5	2-12	12.5	2-12	12.5	2-8	12.5	2-9
16-0	12.5	2-11	12.5	2-12	12.5	2-12	12.5	2-8	12.5	2-9
16-6	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-8	13.0	2-9
17-0	13.0	2-12	13.0	2-12	13.0	2-12	13.0	2-9	13.0	2-9
17-6	13.5	2-12	13.5	2-12	13.5	2-12	13.5	2-9	13.5	2-10
18-0	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-9	13.5	2-10
18-6	14.0	2-12	14.0	2-12	14.0	2-13	14.0	2-9	14.0	2-10
19-0	14.5	2-12	14.5	2-13	14.5	2-13	14.5	2-10	14.5	2-11
19-6	14.5	2-13	14.5	2-13	14.5	2-14	14.5	2-10	14.5	2-11
20-0	15.0	2-12	15.0	2-13	15.0	2-14	15.0	2-10	15.0	2-11
21-0	15.5	2-13	15.5	2-13	15.5	2-14	15.5	2-10	15.5	2-11
22-0	16.5	2-14	16.5	2-14	16.5	2-15	16.5	2-11	16.5	2-12
23-0	17.0	2-14	17.0	2-15	17.0	2-15	17.0	2-11	17.0	2-12
24-0	17.5	2-14	17.5	2-15	17.5	2-16	17.5	2-12	17.5	2-12
25-0	18.5	2-15	18.5	2-16	18.5	2-16	18.5	2-12	18.5	2-12
26-0	19.5	2-15	19.5	2-16	19.5	2-17	19.5	2-12	19.5	2-13
27-0	20.5	2-15	20.5	2-16	20.5	2-17	20.5	2-12	20.5	2-13
28-0	21.5	2-16	21.5	2-17	21.5	2-18	21.5	2-13	21.5	2-14
29-0	22.5	2-16	22.5	2-17	22.5	2-18	22.5	2-13	22.5	2-14
30-0	23.0	2-16	23.0	2-17	23.0	2-18	23.0	2-13	23.0	2-14

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.111		0.132		0.154		0.179		0.205	
C to C Beams	5'-6"		6'-0"		6'-6"		7'-0"		7'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	1-4	6.5	2-1	. .	. .	. .	. .		
6-6	6.5	2-2	6.5	2-2	6.5	2-2	. .	. .		
7-0	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-3		
7-6	6.5	2-3	6.5	2-3	6.5	2-4	6.5	2-4	6.5	2-4
8-0	7.0	2-3	7.0	2-4	7.0	2-4	8.0	2-5	8.0	2-5
8-6	7.0	2-3	7.0	2-4	8.0	2-5	8.0	2-5	8.0	2-6
9-0	7.5	2-4	7.5	2-4	8.5	2-5	8.5	2-6	8.5	2-7
9-6	7.5	2-4	8.5	2-5	8.5	2-6	8.5	2-7	8.5	2-7
10-0	9.0	2-5	9.0	2-6	9.0	2-6	9.0	2-7	9.0	2-8
10-6	9.5	2-5	9.5	2-6	9.5	2-7	9.5	2-7	9.5	2-8
11-0	9.5	2-6	9.5	2-7	9.5	2-7	9.5	2-8	9.5	2-8
11-6	10.0	2-6	10.0	2-7	10.0	2-8	10.0	2-8	10.0	2-9
12-0	10.0	2-7	10.0	2-8	10.0	2-8	10.0	2-9	10.0	2-10
12-6	10.5	2-7	10.5	2-8	10.5	2-9	10.5	2-9	10.5	2-10
13-0	10.5	2-8	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-11
13-6	11.0	2-8	11.0	2-9	11.0	2-9	11.0	2-10	11.0	2-11
14-0	11.5	2-8	11.5	2-9	11.5	2-10	11.5	2-10	11.5	2-11
14-6	11.5	2-9	11.5	2-9	11.5	2-10	11.5	2-11	11.5	2-12
15-0	12.0	2-9	12.0	2-10	12.0	2-11	12.0	2-11	12.0	2-12
15-6	12.5	2-10	12.5	2-11	12.5	2-11	12.5	2-12	12.5	2-12
16-0	12.5	2-10	12.5	2-11	12.5	2-12	12.5	2-12	12.5	2-12
16-6	13.0	2-10	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-12
17-0	13.0	2-10	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-13
17-6	13.5	2-11	13.5	2-12	13.5	2-12	13.5	2-12	13.5	2-13
18-0	13.5	2-11	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-13
18-6	14.0	2-11	14.0	2-12	14.0	2-12	14.0	2-13	14.0	2-14
19-0	14.5	2-12	14.5	2-12	14.5	2-12	14.5	2-13	14.5	2-14
19-6	14.5	2-12	14.5	2-12	14.5	2-12	14.5	2-13	14.5	2-14
20-0	15.0	2-12	15.0	2-12	15.0	2-13	15.0	2-14	15.0	2-14
21-0	15.5	2-12	15.5	2-12	15.5	2-13	15.5	2-14	15.5	2-15
22-0	16.5	2-12	16.5	2-13	16.5	2-14	16.5	2-15	16.5	2-16
23-0	17.0	2-12	17.0	2-13	17.0	2-14	17.0	2-15	17.0	2-16
24-0	17.5	2-13	17.5	2-14	17.5	2-15	17.5	2-16	17.5	2-16
25-0	18.5	2-13	18.5	2-14	18.5	2-15	18.5	2-16	18.5	2-17
26-0	19.5	2-14	19.5	2-15	19.5	2-16	19.5	2-16	19.5	2-17
27-0	20.5	2-14	20.5	2-15	20.5	2-16	20.5	2-17	20.5	2-18
28-0	21.5	2-15	21.5	2-16	21.5	2-17	21.5	2-17	21.5	2-18
29-0	22.5	2-15	22.5	2-16	22.5	2-17	22.5	2-17	22.5	2-18
30-0	23.0	2-15	23.0	2-16	23.0	2-17	23.0	2-17	23.0	2-18

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot										
75 Lbs.		100 Lbs.								
Area of Steel per Lineal Foot of Slab										
Sq. In.	0.234		0.071		0.090		0.111		0.134	
C to C Beams	8'-0"		4'-0"		4'-6"		5'-0"		5'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	6.5	1-3	6.5	1-4	6.5	2-1	6.5	2-2
6-6	. .	. .	6.5	1-4	6.5	2-1	6.5	2-2	6.5	2-2
7-0	. .	. .	6.5	2-2	6.5	2-2	6.5	2-3	6.5	2-3
7-6	. .	. .	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-4
8-0	8.0	2-6	7.0	2-3	7.0	2-3	7.0	2-4	7.0	2-4
8-6	8.0	2-7	7.0	2-3	7.0	2-4	7.0	2-4	8.0	2-5
9-0	8.5	2-7	7.5	2-3	7.5	2-4	7.5	2-4	8.5	2-6
9-6	8.5	2-8	7.5	2-4	7.5	2-4	8.5	2-5	8.5	2-6
10-0	9.0	2-8	8.0	2-4	8.0	2-4	9.0	2-6	9.0	2-6
10-6	9.5	2-9	8.5	2-4	9.5	2-5	9.5	2-6	9.5	2-7
11-0	9.5	2-9	8.5	2-4	9.5	2-6	9.5	2-7	9.5	2-7
11-6	10.0	2-10	10.0	2-5	10.0	2-6	10.0	2-7	10.0	2-8
12-0	10.0	2-10	10.0	2-6	10.0	2-7	10.0	2-8	10.0	2-8
12-6	10.5	2-11	10.5	2-6	10.5	2-7	10.5	2-8	10.5	2-9
13-0	10.5	2-11	10.5	2-7	10.5	2-8	10.5	2-8	10.5	2-9
13-6	11.0	2-11	11.0	2-7	11.0	2-8	11.0	2-9	11.0	2-10
14-0	11.5	2-12	11.5	2-7	11.5	2-8	11.5	2-9	11.5	2-10
14-6	11.5	2-12	11.5	2-7	11.5	2-8	11.5	2-9	11.5	2-10
15-0	12.0	2-12	12.0	2-8	12.0	2-9	12.0	2-10	12.0	2-11
15-6	12.5	2-13	12.5	2-9	12.5	2-10	12.5	2-11	12.5	2-12
16-0	12.5	2-13	12.5	2-9	12.5	2-10	12.5	2-11	12.5	2-12
16-6	13.0	2-13	13.0	2-9	13.0	2-10	13.0	2-11	13.0	2-12
17-0	13.0	2-13	13.0	2-9	13.0	2-10	13.0	2-11	13.0	2-12
17-6	13.5	2-14	13.5	2-9	13.5	2-11	13.5	2-12	13.5	2-12
18-0	13.5	2-14	13.5	2-10	13.5	2-11	13.5	2-12	13.5	2-12
18-6	14.0	2-14	14.0	2-10	14.0	2-11	14.0	2-12	14.0	2-12
19-0	14.5	2-15	14.5	2-10	14.5	2-11	14.5	2-12	14.5	2-13
19-6	14.5	2-15	14.5	2-11	14.5	2-12	14.5	2-12	14.5	2-13
20-0	15.0	2-15	15.0	2-11	15.0	2-12	15.0	2-12	15.0	2-13
21-0	15.5	2-16	15.5	2-11	15.5	2-12	15.5	2-12	15.5	2-13
22-0	16.5	2-17	16.5	2-12	16.5	2-12	16.5	2-13	16.5	2-14
23-0	17.0	2-17	17.0	2-12	17.0	2-12	17.0	2-14	17.0	2-15
24-0	17.5	2-17	17.5	2-12	17.5	2-13	17.5	2-14	17.5	2-15
25-0	18.5	2-18	18.5	2-12	18.5	2-13	18.5	2-14	18.5	2-16
26-0	19.5	2-18	19.5	2-12	19.5	2-13	19.5	2-15	19.5	2-16
27-0	20.5	2-18	20.5	2-12	20.5	2-14	20.5	2-15	20.5	2-16
28-0	22.0	2-19	21.5	2-14	21.5	2-15	21.5	2-16	21.5	2-17
29-0	23.0	2-19	22.5	2-14	22.5	2-15	22.5	2-16	22.5	2-17
30-0	23.5	2-19	23.0	2-14	23.0	2-15	23.0	2-16	23.0	2-17

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

100 Lbs.

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.159		0.187		0.217		0.249		0.083	
C to C Beams	6'-0"		6'-6"		7'-0"		7'-6"		4'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-2	. .	. .	. .	. .	. .	. .	6.5	1-4
6-6	6.5	2-3	6.5	2-3	. .	. .	. .	. .	6.5	2-2
7-0	6.5	2-3	6.5	2-4	6.5	2-4	. .	. .	6.5	2-2
7-6	6.5	2-4	7.5	2-5	7.5	2-6	7.5	2-6	6.5	2-3
8-0	8.0	2-5	8.0	2-6	8.0	2-7	8.0	2-7	7.0	2-3
8-6	8.0	2-6	8.0	2-7	8.0	2-7	8.0	2-8	7.0	2-4
9-0	8.5	2-6	8.5	2-7	8.5	2-8	8.5	2-8	7.5	2-4
9-6	8.5	2-7	8.5	2-8	8.5	2-8	8.5	2-9	8.5	2-5
10-0	9.0	2-7	9.0	2-8	9.0	2-9	9.0	2-9	9.0	2-5
10-6	9.5	2-8	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-6
11-0	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-10	9.5	2-6
11-6	10.0	2-9	10.0	2-10	10.0	2-10	10.0	2-11	10.0	2-7
12-0	10.0	2-9	10.0	2-10	10.0	2-11	10.0	2-12	10.0	2-7
12-6	10.5	2-10	10.5	2-11	10.5	2-11	10.5	2-12	10.5	2-8
13-0	10.5	2-10	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-8
13-6	11.0	2-10	11.0	2-11	11.0	2-12	11.0	2-12	11.0	2-8
14-0	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-9
14-6	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-9
15-0	12.0	2-12	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-9
15-6	12.5	2-12	12.5	2-12	12.5	2-13	12.5	2-14	12.5	2-10
16-0	12.5	2-12	12.5	2-13	12.5	2-14	12.5	2-15	12.5	2-11
16-6	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-11
17-0	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-11
17-6	13.5	2-13	13.5	2-14	13.5	2-14	13.5	2-15	13.5	2-11
18-0	13.5	2-13	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-12
18-6	14.0	2-13	14.0	2-14	14.0	2-15	14.0	2-16	14.0	2-12
19-0	14.5	2-14	14.5	2-15	14.5	2-16	14.5	2-16	14.5	2-12
19-6	14.5	2-14	14.5	2-15	14.5	2-16	14.5	2-17	14.5	2-12
20-0	15.0	2-14	15.0	2-15	15.0	2-16	15.0	2-17	15.0	2-12
21-0	15.5	2-14	15.5	2-15	15.5	2-16	15.5	2-17	15.5	2-12
22-0	16.5	2-15	16.5	2-16	16.5	2-17	16.5	2-18	16.5	2-13
23-0	17.0	2-16	17.0	2-17	17.0	2-18	17.5	2-19	17.0	2-13
24-0	17.5	2-16	17.5	2-17	17.5	2-18	18.0	2-19	17.5	2-13
25-0	18.5	2-17	18.5	2-18	19.0	2-19	19.0	2-19	18.5	2-14
26-0	19.5	2-17	19.5	2-18	20.0	2-19	20.0	2-19	19.5	2-14
27-0	20.5	2-17	20.5	2-18	21.0	2-19	21.0	2-19	20.5	2-14
28-0	21.5	2-18	22.0	2-19	22.0	2-19	22.0	2-20	21.5	2-15
29-0	22.5	2-18	23.0	2-19	23.0	2-19	23.0	2-20	22.5	2-15
30-0	23.0	2-18	23.5	2-19	23.5	2-19	23.5	2-20	23.0	2-15

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.106		0.130		0.158		0.188		0.220	
C to C Beams	4'-6"		5'-0"		5'-6"		6'-0"		6'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-1	6.5	2-2	6.5	2-2	6.5	2-3	.	.
6-6	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-4	6.5	2-4
7-0	6.5	2-3	6.5	2-3	6.5	2-4	6.5	2-4	7.5	2-5
7-6	6.5	2-4	6.5	2-4	7.5	2-5	7.5	2-6	7.5	2-7
8-0	7.0	2-4	8.0	2-5	8.0	2-6	8.0	2-7	8.0	2-7
8-6	7.0	2-4	8.0	2-6	8.0	2-7	8.0	2-7	8.0	2-8
9-0	8.5	2-5	8.5	2-6	8.5	2-7	8.5	2-8	8.5	2-9
9-6	8.5	2-6	8.5	2-7	8.5	2-8	8.5	2-9	8.5	2-9
10-0	9.0	2-6	9.0	2-7	9.0	2-8	9.0	2-9	9.0	2-10
10-6	9.5	2-7	9.5	2-8	9.5	2-8	9.5	2-9	9.5	2-10
11-0	9.5	2-7	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-11
11-6	10.0	2-8	10.0	2-9	10.0	2-10	10.0	2-10	10.0	2-11
12-0	10.0	2-8	10.0	2-9	10.0	2-10	10.0	2-11	10.0	2-12
12-6	10.5	2-9	10.5	2-10	10.5	2-11	10.5	2-11	10.5	2-12
13-0	10.5	2-9	10.5	2-10	10.5	2-11	10.5	2-12	10.5	2-12
13-6	11.0	2-9	11.0	2-10	11.0	2-11	11.0	2-12	11.0	2-12
14-0	11.5	2-10	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-13
14-6	11.5	2-10	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-13
15-0	12.0	2-11	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-14
15-6	12.5	2-11	12.5	2-12	12.5	2-13	12.5	2-14	12.5	2-14
16-0	12.5	2-12	12.5	2-12	12.5	2-13	12.5	2-14	12.5	2-15
16-6	13.0	2-12	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-15
17-0	13.0	2-12	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-15
17-6	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-15	13.5	2-16
18-0	13.5	2-12	13.5	2-13	13.5	2-14	13.5	2-15	13.5	2-16
18-6	14.0	2-12	14.0	2-13	14.0	2-14	14.0	2-15	14.0	2-16
19-0	14.5	2-12	14.5	2-13	14.5	2-15	14.5	2-16	14.5	2-17
19-6	14.5	2-12	14.5	2-13	14.5	2-15	14.5	2-16	14.5	2-17
20-0	15.0	2-13	15.0	2-14	15.0	2-15	15.0	2-16	15.0	2-17
21-0	15.5	2-13	15.5	2-14	15.5	2-15	16.0	2-17	16.0	2-18
22-0	16.5	2-14	16.5	2-15	16.5	2-16	17.0	2-18	17.0	2-19
23-0	17.0	2-14	17.0	2-16	17.0	2-17	17.5	2-18	17.5	2-19
24-0	17.5	2-15	17.5	2-16	17.5	2-17	18.0	2-18	18.0	2-19
25-0	18.5	2-15	18.5	2-16	19.0	2-18	19.0	2-19	19.0	2-19
26-0	19.5	2-15	19.5	2-17	20.0	2-18	20.0	2-19	20.0	2-20
27-0	20.5	2-16	20.5	2-17	21.0	2-18	21.0	2-19	21.0	2-20
28-0	21.5	2-17	21.5	2-18	22.0	2-19	22.0	2-19	22.0	2-20
29-0	22.5	2-17	22.5	2-18	23.0	2-19	23.0	2-19	23.0	2-20
30-0	23.0	2-17	23.0	2-18	23.5	2-19	23.5	2-19	23.5	2-21

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

125 Lbs.

150 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.255		0.074		0.096		0.121		0.150	
C to C Beams	7'-0"		3'-6"		4'-0"		4'-6"		5'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	6.5	1-4	6.5	2-2	6.5	2-2	6.5	2-2
6-6	. .	. .	6.5	2-2	6.5	2-2	6.5	2-3	6.5	2-3
7-0	7.5	2-6	6.5	2-2	6.5	2-3	6.5	2-4	6.5	2-4
7-6	7.5	2-7	6.5	2-3	6.5	2-4	6.5	2-4	7.5	2-6
8-0	8.0	2-9	7.0	2-4	7.0	2-4	8.0	2-5	8.0	2-6
8-6	8.0	2-9	7.0	2-4	8.0	2-5	8.0	2-6	8.0	2-7
9-0	8.5	2-10	7.5	2-4	8.5	2-6	8.5	2-7	8.5	2-8
9-6	8.5	2-10	8.5	2-5	8.5	2-6	8.5	2-7	8.5	2-8
10-0	9.0	2-11	9.0	2-5	9.0	2-6	9.0	2-7	9.0	2-8
10-6	9.5	2-12	9.5	2-6	9.5	2-7	9.5	2-8	9.5	2-9
11-0	9.5	2-12	9.5	2-6	9.5	2-7	9.5	2-8	9.5	2-9
11-6	10.0	2-12	10.0	2-7	10.0	2-8	10.0	2-9	10.0	2-10
12-0	10.0	2-12	10.0	2-7	10.0	2-8	10.0	2-9	10.0	2-11
12-6	10.5	2-13	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-11
13-0	10.5	2-13	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-12
13-6	11.0	2-14	11.0	2-8	11.0	2-9	11.0	2-11	11.0	2-12
14-0	11.5	2-15	11.5	2-9	11.5	2-10	11.5	2-11	11.5	2-12
14-6	11.5	2-15	11.5	2-9	11.5	2-10	11.5	2-12	11.5	2-12
15-0	12.0	2-15	12.0	2-9	12.0	2-11	12.0	2-12	12.0	2-12
15-6	12.5	2-16	12.5	2-10	12.5	2-11	12.5	2-12	12.5	2-13
16-0	12.5	2-16	12.5	2-11	12.5	2-12	12.5	2-12	12.5	2-13
16-6	13.0	2-17	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-13
17-0	13.0	2-17	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-14
17-6	13.5	2-17	13.5	2-11	13.5	2-12	13.5	2-13	13.5	2-14
18-0	13.5	2-17	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-15
18-6	14.0	2-18	14.0	2-12	14.0	2-12	14.0	2-13	14.0	2-15
19-0	14.5	2-18	14.5	2-12	14.5	2-12	14.5	2-14	14.5	2-15
19-6	14.5	2-18	14.5	2-12	14.5	2-13	14.5	2-14	14.5	2-15
20-0	15.0	2-18	15.0	2-12	15.0	2-13	15.0	2-14	15.0	2-16
21-0	16.0	2-19	15.5	2-12	15.5	2-13	15.5	2-15	15.5	2-16
22-0	17.0	2-19	16.5	2-13	16.5	2-14	16.5	2-16	16.5	2-17
23-0	17.5	2-19	17.0	2-13	17.0	2-15	17.0	2-16	17.0	2-17
24-0	18.0	2-19	17.5	2-13	17.5	2-15	17.5	2-16	18.0	2-18
25-0	19.0	2-20	18.5	2-14	18.5	2-15	18.5	2-17	19.0	2-18
26-0	20.0	2-20	19.5	2-14	19.5	2-16	19.5	2-17	20.0	2-19
27-0	21.0	2-21	20.5	2-14	20.5	2-16	20.5	2-17	21.0	2-19
28-0	22.0	2-22	21.5	2-16	21.5	2-16	21.5	2-18	22.0	2-19
29-0	23.0	2-22	22.5	2-16	22.5	2-16	22.5	2-18	23.0	2-19
30-0	23.5	2-22	23.0	2-16	23.0	2-16	23.0	2-18	23.5	2-19



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

150 Lbs.

200 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.181		0.216		0.253		0.068		0.093	
C to C Beams	5'-6"		6'-0"		6'-6"		3'-0"		3'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-3	6.5	2-3	. .	. .	6.5	2-1	6.5	2-2
6-6	6.5	2-4	6.5	2-4	7.5	2-5	6.5	2-2	6.5	2-3
7-0	7.5	2-5	7.5	2-6	7.5	2-7	6.5	2-3	6.5	2-3
7-6	7.5	2-6	7.5	2-7	7.5	2-8	6.5	2-3	6.5	2-4
8-0	8.0	2-7	8.0	2-8	8.0	2-9	7.0	2-4	8.0	2-5
8-6	8.0	2-8	8.0	2-9	8.0	2-9	7.0	2-4	8.0	2-6
9-0	8.5	2-8	8.5	2-9	8.5	2-10	8.5	2-5	8.5	2-6
9-6	8.5	2-9	8.5	2-10	8.5	2-10	8.5	2-6	8.5	2-7
10-0	9.0	2-9	9.0	2-10	9.0	2-11	9.0	2-6	9.0	2-7
10-6	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-6	9.5	2-8
11-0	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-7	9.5	2-8
11-6	10.0	2-11	10.0	2-12	10.0	2-12	10.0	2-7	10.0	2-9
12-0	10.0	2-11	10.0	2-12	10.0	2-12	10.0	2-8	10.0	2-9
12-6	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-8	10.5	2-10
13-0	10.5	2-12	10.5	2-13	10.5	2-13	10.5	2-9	10.5	2-10
13-6	11.0	2-12	11.0	2-13	11.0	2-14	11.0	2-9	11.0	2-10
14-0	11.5	2-12	11.5	2-13	11.5	2-15	11.5	2-9	11.5	2-11
14-6	11.5	2-13	11.5	2-14	11.5	2-15	11.5	2-10	11.5	2-11
15-0	12.0	2-13	12.0	2-14	12.0	2-15	12.0	2-10	12.0	2-12
15-6	12.5	2-14	12.5	2-15	12.5	2-16	12.5	2-11	12.5	2-12
16-0	12.5	2-15	12.5	2-16	12.5	2-16	12.5	2-11	12.5	2-12
16-6	13.0	2-15	13.0	2-16	13.0	2-17	13.0	2-11	13.0	2-12
17-0	13.0	2-15	13.0	2-16	13.0	2-17	13.0	2-12	13.0	2-12
17-6	13.5	2-15	13.5	2-16	13.5	2-17	13.5	2-12	13.5	2-13
18-0	13.5	2-16	13.5	2-17	13.5	2-17	13.5	2-12	13.5	2-13
18-6	14.0	2-16	14.0	2-17	14.0	2-18	14.0	2-12	14.0	2-13
19-0	14.5	2-16	15.0	2-18	15.0	2-18	14.5	2-12	14.5	2-14
19-6	14.5	2-17	15.0	2-18	15.0	2-18	14.5	2-12	14.5	2-14
20-0	15.0	2-17	15.5	2-18	15.5	2-18	15.0	2-12	15.0	2-14
21-0	15.5	2-17	16.5	2-18	16.5	2-19	15.5	2-13	15.5	2-14
22-0	17.0	2-18	17.5	2-19	17.0	2-19	16.5	2-14	16.5	2-15
23-0	17.5	2-19	18.0	2-19	18.0	2-19	17.0	2-14	17.0	2-16
24-0	18.0	2-19	18.5	2-19	19.0	2-20	17.5	2-14	17.5	2-16
25-0	19.0	2-19	19.5	2-20	20.0	2-20	18.5	2-15	18.5	2-17
26-0	20.0	2-19	20.5	2-20	21.0	2-21	19.5	2-15	19.5	2-17
27-0	21.0	2-19	21.5	2-20	22.0	2-21	20.5	2-15	20.5	2-17
28-0	22.0	2-20	22.0	2-21	22.5	2-21	21.5	2-16	21.5	2-18
29-0	23.0	2-20	23.0	2-21	23.0	2-21	22.5	2-16	22.5	2-18
30-0	23.5	2-20	23.5	2-21	23.5	2-22	23.0	2-16	23.0	2-18

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

200 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.121		0.153		0.189		0.228		0.272	
C to C Beams	4'-0"		4'-6"		5'-0"		5'-6"		6'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-2	6.5	2-3	6.5	2-4	6.5	2-4	7.5	2-5
6-6	6.5	2-3	6.5	2-4	7.5	2-5	7.5	2-6	7.5	2-7
7-0	6.5	2-4	7.5	2-5	7.5	2-6	7.5	2-7	7.5	2-8
7-6	7.5	2-6	7.5	2-6	7.5	2-8	7.5	2-8	8.0	2-9
8-0	8.0	2-6	8.0	2-7	8.0	2-9	8.0	2-9	8.0	2-9
8-6	8.0	2-7	8.0	2-8	8.0	2-9	8.5	2-10	8.5	2-10
9-0	8.5	2-7	8.5	2-9	8.5	2-10	8.5	2-10	9.0	2-11
9-6	8.5	2-8	8.5	2-9	8.5	2-10	9.0	2-11	9.0	2-11
10-0	9.0	2-8	9.0	2-10	9.0	2-11	9.0	2-11	9.5	2-12
10-6	9.5	2-9	9.5	2-10	9.5	2-12	9.5	2-12	10.0	2-12
11-0	9.5	2-10	9.5	2-11	9.5	2-12	10.0	2-12	10.0	2-12
11-6	10.0	2-10	10.0	2-11	10.0	2-12	10.0	2-12	10.5	2-13
12-0	10.0	2-11	10.0	2-12	10.0	2-12	10.5	2-13	11.0	2-14
12-6	10.5	2-11	10.5	2-12	10.5	2-13	11.0	2-14	11.0	2-14
13-0	10.5	2-12	10.5	2-12	10.5	2-13	11.0	2-14	11.5	2-15
13-6	11.0	2-12	11.0	2-12	11.0	2-14	11.5	2-15	11.5	2-15
14-0	11.5	2-12	11.5	2-13	11.5	2-15	11.5	2-15	12.0	2-15
14-6	11.5	2-12	11.5	2-13	11.5	2-15	12.0	2-15	12.5	2-16
15-0	12.0	2-12	12.0	2-14	12.0	2-15	12.5	2-16	12.5	2-16
15-6	12.5	2-13	12.5	2-14	12.5	2-16	12.5	2-16	13.0	2-17
16-0	12.5	2-14	12.5	2-15	12.5	2-16	13.0	2-17	13.5	2-17
16-6	13.0	2-14	13.0	2-15	13.0	2-17	13.0	2-17	13.5	2-17
17-0	13.0	2-14	13.0	2-15	13.0	2-17	13.5	2-17	14.0	2-18
17-6	13.5	2-14	13.5	2-16	13.5	2-17	14.0	2-18	14.5	2-18
18-0	13.5	2-15	13.5	2-16	14.0	2-18	14.5	2-18	14.5	2-18
18-6	14.0	2-15	14.0	2-16	14.0	2-18	14.5	2-18	15.0	2-18
19-0	14.5	2-15	14.5	2-17	14.5	2-18	15.0	2-18	16.0	2-19
19-6	14.5	2-16	14.5	2-17	15.0	2-18	16.0	2-19	16.5	2-19
20-0	15.0	2-16	15.0	2-17	15.0	2-18	16.5	2-19	17.0	2-19
21-0	15.5	2-16	16.0	2-18	16.0	2-19	17.0	2-19	17.5	2-19
22-0	16.5	2-17	17.0	2-19	17.0	2-19	18.0	2-19	18.5	2-20
23-0	17.0	2-17	17.5	2-19	17.5	2-19	18.5	2-20	19.5	2-20
24-0	18.0	2-18	18.0	2-19	18.5	2-20	19.5	2-20	20.5	2-21
25-0	19.0	2-18	19.0	2-19	19.5	2-20	20.5	2-21	21.0	2-21
26-0	20.0	2-19	20.0	2-19	20.5	2-21	21.5	2-21	22.0	2-21
27-0	21.0	2-19	21.0	2-20	21.5	2-21	22.0	2-21	22.5	2-21
28-0	22.0	2-19	22.0	2-20	22.5	2-21	23.0	2-21	23.5	2-22
29-0	23.0	2-19	23.0	2-20	23.5	2-21	24.0	2-22	24.5	2-22
30-0	23.5	2-19	23.5	2-20	24.0	2-22	24.5	2-22	25.0	2-22

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

250 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.082		0.112		0.146		0.185		0.228	
C to C Beams	3'-0"		3'-6"		4'-0"		4'-6"		5'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-2	6.5	2-3	6.5	2-4	6.5	2-4	7.5	2-5
6-6	6.5	2-3	6.5	2-4	6.5	2-5	7.5	2-6	7.5	2-7
7-0	6.5	2-4	6.5	2-4	7.5	2-6	7.5	2-7	7.5	2-8
7-6	6.5	2-4	7.5	2-6	7.5	2-7	7.5	2-8	8.0	2-9
8-0	8.0	2-6	8.0	2-7	8.0	2-9	8.0	2-9	8.0	2-9
8-6	8.0	2-6	8.0	2-8	8.0	2-9	8.5	2-10	8.5	2-10
9-0	8.5	2-7	8.5	2-8	8.5	2-10	8.5	2-10	9.0	2-11
9-6	8.5	2-7	8.5	2-9	8.5	2-10	9.0	2-11	9.0	2-11
10-0	9.0	2-8	9.0	2-9	9.0	2-11	9.0	2-11	9.5	2-12
10-6	9.5	2-8	9.5	2-9	9.5	2-12	9.5	2-12	10.0	2-12
11-0	9.5	2-8	9.5	2-10	9.5	2-12	10.0	2-12	10.0	2-12
11-6	10.0	2-9	10.0	2-11	10.0	2-12	10.0	2-12	10.5	2-13
12-0	10.0	2-10	10.0	2-11	10.0	2-12	10.5	2-13	11.0	2-14
12-6	10.5	2-10	10.5	2-12	10.5	2-13	10.5	2-13	11.0	2-14
13-0	10.5	2-11	10.5	2-12	10.5	2-13	11.0	2-14	11.5	2-15
13-6	11.0	2-11	11.0	2-12	11.0	2-14	11.5	2-15	11.5	2-15
14-0	11.5	2-11	11.5	2-13	11.5	2-15	11.5	2-15	12.0	2-16
14-6	11.5	2-12	11.5	2-13	11.5	2-15	12.0	2-15	12.5	2-16
15-0	12.0	2-12	12.0	2-13	12.0	2-15	12.0	2-15	12.5	2-16
15-6	12.5	2-12	12.5	2-14	12.5	2-16	12.5	2-16	13.0	2-17
16-0	12.5	2-12	12.5	2-14	12.5	2-16	13.0	2-17	13.5	2-17
16-6	13.0	2-12	13.0	2-14	13.0	2-17	13.0	2-17	13.5	2-17
17-0	13.0	2-13	13.0	2-14	13.0	2-17	13.5	2-17	14.0	2-18
17-6	13.5	2-13	13.5	2-15	13.5	2-17	14.0	2-18	14.5	2-18
18-0	13.5	2-13	13.5	2-15	13.5	2-17	14.0	2-18	15.0	2-18
18-6	14.0	2-14	14.0	2-16	14.0	2-18	14.5	2-18	15.0	2-18
19-0	14.5	2-14	14.5	2-16	14.5	2-18	15.0	2-18	16.0	2-19
19-6	14.5	2-14	14.5	2-16	14.5	2-18	15.0	2-18	16.5	2-19
20-0	15.0	2-15	15.0	2-16	15.0	2-18	16.0	2-19	17.0	2-19
21-0	15.5	2-15	16.0	2-17	16.0	2-19	17.0	2-19	18.0	2-19
22-0	16.5	2-16	17.0	2-18	17.0	2-19	17.5	2-19	18.5	2-20
23-0	17.0	2-16	17.5	2-18	17.5	2-19	18.5	2-20	19.5	2-20
24-0	17.5	2-16	18.0	2-19	18.5	2-19	19.5	2-20	20.5	2-21
25-0	18.5	2-17	19.0	2-19	19.0	2-20	20.5	2-21	20.5	2-21
26-0	19.5	2-17	20.0	2-19	20.0	2-20	21.0	2-21	21.5	2-22
27-0	21.0	2-18	21.0	2-19	21.0	2-21	22.0	2-22	22.5	2-22
28-0	22.0	2-19	22.5	2-20	22.0	2-22	22.5	2-22	23.0	2-22
29-0	23.0	2-19	23.0	2-20	23.0	2-22	23.5	2-22	24.0	2-23
30-0	23.5	2-19	23.5	2-20	23.5	2-22	24.0	2-23	24.5	2-23

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

250 Lbs.

300 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.276		0.096		0.131		0.171		0.216	
C to C Beams	5'-6"		3'-0"		3'-6"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	7.5	2-7	6.5	2-3	6.5	2-4	7.5	2-5	7.5	2-6
6-6	7.5	2-8	6.5	2-4	7.5	2-5	7.5	2-6	7.5	2-8
7-0	8.0	2-9	6.5	2-4	7.5	2-6	7.5	2-8	7.5	2-8
7-6	8.0	2-9	7.5	2-6	7.5	2-8	8.0	2-9	8.0	2-9
8-0	8.5	2-10	8.0	2-7	8.0	2-9	8.0	2-9	8.5	2-10
8-6	9.0	2-11	8.0	2-8	8.0	2-9	8.5	2-10	8.5	2-10
9-0	9.0	2-11	8.5	2-8	8.5	2-10	8.5	2-10	9.0	2-11
9-6	9.5	2-12	8.5	2-9	8.5	2-10	9.0	2-11	9.5	2-12
10-0	10.0	2-12	9.0	2-9	9.0	2-11	9.5	2-12	9.5	2-12
10-6	10.0	2-12	9.5	2-10	9.5	2-12	9.5	2-12	10.0	2-12
11-0	10.5	2-13	9.5	2-10	9.5	2-12	10.0	2-12	10.5	2-13
11-6	11.0	2-14	10.0	2-11	10.0	2-12	10.0	2-12	10.5	2-13
12-0	11.0	2-14	10.0	2-11	10.0	2-12	10.5	2-13	11.0	2-14
12-6	11.5	2-15	10.5	2-12	10.5	2-13	11.0	2-14	11.5	2-15
13-0	12.0	2-15	10.5	2-12	10.5	2-13	11.0	2-14	11.5	2-15
13-6	12.0	2-15	11.0	2-12	11.0	2-14	11.5	2-15	12.0	2-15
14-0	12.5	2-16	11.5	2-12	11.5	2-15	12.0	2-15	12.5	2-16
14-6	13.0	2-17	11.5	2-12	11.5	2-15	12.0	2-15	12.5	2-16
15-0	13.0	2-17	12.0	2-13	12.0	2-15	12.5	2-16	13.0	2-17
15-6	13.5	2-17	12.5	2-13	12.5	2-15	12.5	2-16	13.5	2-17
16-0	14.0	2-18	12.5	2-14	12.5	2-16	13.0	2-17	13.5	2-17
16-6	14.5	2-18	13.0	2-14	13.0	2-17	13.5	2-17	14.0	2-18
17-0	14.5	2-18	13.0	2-15	13.0	2-17	13.5	2-17	14.5	2-18
17-6	15.0	2-18	13.5	2-15	13.5	2-17	14.0	2-18	15.0	2-18
18-0	16.0	2-19	13.5	2-15	13.5	2-17	14.5	2-18	15.0	2-18
18-6	16.5	2-19	14.0	2-16	14.0	2-18	14.5	2-18	16.0	2-19
19-0	17.0	2-19	14.5	2-16	14.5	2-18	15.5	2-18	16.5	2-19
19-6	17.5	2-19	14.5	2-16	14.5	2-18	16.0	2-19	17.0	2-19
20-0	18.0	2-19	15.0	2-16	15.0	2-18	16.5	2-19	17.5	2-19
21-0	18.5	2-20	16.0	2-17	16.0	2-19	17.0	2-19	18.0	2-19
22-0	19.5	2-20	17.0	2-18	17.0	2-19	18.0	2-19	19.0	2-20
23-0	20.5	2-21	17.5	2-18	18.0	2-19	19.0	2-20	20.0	2-20
24-0	20.5	2-21	18.0	2-19	19.0	2-19	20.0	2-20	21.0	2-21
25-0	21.0	2-22	19.0	2-19	20.0	2-20	21.0	2-21	21.5	2-22
26-0	22.0	2-22	20.0	2-19	21.0	2-20	21.5	2-21	22.0	2-22
27-0	23.0	2-23	21.0	2-19	22.0	2-20	23.0	2-22	23.5	2-22
28-0	23.5	2-23	22.0	2-20	23.0	2-22	23.5	2-22	24.0	2-23
29-0	24.5	2-24	23.0	2-20	23.5	2-22	24.0	2-22	24.5	2-23
30-0	25.0	2-24	23.5	2-20	24.0	2-22	24.5	2-23	25.0	2-24

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

300 Lbs.

350 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.267		0.110		0.150		0.196		0.248	
C to C Beams	5'-0"		3'-0"		3'-6"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	7.5	2-8	6.5	2-4	6.5	2-4	7.5	2-7	7.5	2-8
6-6	7.5	2-8	7.5	2-5	7.5	2-6	7.5	2-8	7.5	2-8
7-0	8.0	2-9	7.5	2-6	7.5	2-8	7.5	2-8	8.0	2-9
7-6	8.5	2-10	7.5	2-7	8.0	2-9	8.0	2-9	8.5	2-10
8-0	8.5	2-10	8.0	2-8	8.0	2-9	8.5	2-10	8.5	2-10
8-6	9.0	2-11	8.0	2-9	8.5	2-10	8.5	2-10	9.0	2-11
9-0	9.5	2-12	8.5	2-9	8.5	2-10	9.0	2-11	9.5	2-12
9-6	9.5	2-12	8.5	2-10	9.0	2-11	9.5	2-12	10.0	2-12
10-0	10.0	2-12	9.0	2-10	9.5	2-12	9.5	2-12	10.0	2-12
10-6	10.5	2-13	9.5	2-11	9.5	2-12	10.0	2-12	10.5	2-13
11-0	10.5	2-13	9.5	2-11	10.0	2-12	10.5	2-13	11.0	2-14
11-6	11.0	2-14	10.0	2-12	10.0	2-12	10.5	2-13	11.0	2-14
12-0	11.5	2-15	10.0	2-12	10.5	2-13	11.0	2-14	11.5	2-15
12-6	11.5	2-15	10.5	2-12	11.0	2-14	11.5	2-15	12.0	2-15
13-0	12.0	2-15	10.5	2-13	11.0	2-14	11.5	2-15	12.0	2-15
13-6	12.5	2-16	11.0	2-13	11.5	2-15	12.0	2-15	12.5	2-16
14-0	12.5	2-16	11.5	2-13	12.0	2-15	12.5	2-16	13.0	2-17
14-6	13.0	2-17	11.5	2-14	12.0	2-15	12.5	2-16	13.5	2-17
15-0	13.5	2-17	12.0	2-15	12.5	2-16	13.0	2-17	13.5	2-17
15-6	14.0	2-18	12.5	2-15	12.5	2-16	13.5	2-17	14.0	2-18
16-0	14.5	2-18	12.5	2-16	13.0	2-17	14.0	2-18	14.5	2-18
16-6	14.5	2-18	13.0	2-16	13.5	2-17	14.0	2-18	15.0	2-18
17-0	15.0	2-18	13.0	2-16	13.5	2-17	14.5	2-18	16.0	2-19
17-6	16.0	2-19	13.5	2-17	14.0	2-18	15.0	2-18	16.0	2-19
18-0	16.5	2-19	13.5	2-17	14.5	2-18	15.0	2-18	16.5	2-19
18-6	17.0	2-19	14.0	2-17	14.5	2-18	16.0	2-19	17.0	2-19
19-0	17.5	2-19	15.0	2-18	15.0	2-18	16.5	2-19	17.5	2-19
19-6	18.0	2-19	15.0	2-18	16.0	2-19	17.0	2-19	18.0	2-19
20-0	18.5	2-20	15.5	2-18	16.5	2-19	17.5	2-19	18.5	2-20
21-0	19.0	2-20	16.0	2-19	17.0	2-19	18.5	2-20	19.5	2-20
22-0	20.0	2-20	17.0	2-19	18.0	2-19	19.5	2-20	21.0	2-21
23-0	21.0	2-21	17.5	2-19	19.0	2-20	20.5	2-21	21.5	2-21
24-0	21.5	2-22	18.0	2-19	20.0	2-20	21.0	2-21	22.0	2-22
25-0	22.0	2-22	19.0	2-20	21.0	2-21	21.5	2-22	23.0	2-23
26-0	23.0	2-22	20.0	2-20	21.5	2-21	22.0	2-23	23.5	2-24
27-0	24.0	2-23	21.0	2-21	22.0	2-22	23.0	2-24	24.0	2-24
28-0	24.5	2-23	22.0	2-21	23.0	2-23	23.5	2-24	24.5	2-25
29-0	25.0	2-24	23.0	2-21	23.5	2-23	24.0	2-25	25.0	2-25
30-0	25.5	2-25	23.5	2-22	24.0	2-24	24.5	2-25	25.5	2-26

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 3½-inch Slab

Safe Live Load in Pounds per Square Foot

400 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.124		0.169		0.221		0.280	
C to C Beams	3'-0"		3'-6"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	6.5	2-4	7.5	2-6	7.5	2-8	7.5	2-8
6-6	7.5	2-6	7.5	2-7	7.5	2-8	8.0	2-9
7-0	7.5	2-7	7.5	2-8	8.0	2-9	8.5	2-10
7-6	7.5	2-8	8.0	2-9	8.5	2-10	8.5	2-10
8-0	8.0	2-9	8.5	2-10	8.5	2-10	9.0	2-11
8-6	8.5	2-10	8.5	2-10	9.0	2-11	9.5	2-12
9-0	8.5	2-10	9.0	2-11	9.5	2-12	10.0	2-12
9-6	9.0	2-11	9.5	2-12	10.0	2-12	10.0	2-12
10-0	9.0	2-11	9.5	2-12	10.0	2-12	10.5	2-13
10-6	9.5	2-12	10.0	2-12	10.5	2-13	11.0	2-14
11-0	10.0	2-12	10.5	2-13	11.0	2-14	11.5	2-15
11-6	10.0	2-12	10.5	2-13	11.0	2-14	11.5	2-15
12-0	10.5	2-13	11.0	2-14	11.5	2-15	12.0	2-15
12-6	11.0	2-14	11.5	2-15	12.0	2-15	12.5	2-16
13-0	11.0	2-14	11.5	2-15	12.0	2-16	13.0	2-17
13-6	11.5	2-15	12.0	2-15	12.5	2-16	13.0	2-17
14-0	11.5	2-15	12.5	2-16	13.0	2-17	13.5	2-17
14-6	12.0	2-15	12.5	2-16	13.5	2-17	14.0	2-18
15-0	12.5	2-16	13.0	2-17	13.5	2-17	14.5	2-18
15-6	12.5	2-16	13.5	2-17	14.0	2-18	15.0	2-18
16-0	13.0	2-17	13.5	2-17	14.5	2-18	16.0	2-19
16-6	13.0	2-17	14.0	2-18	15.0	2-18	16.5	2-19
17-0	13.5	2-17	14.5	2-18	16.0	2-19	16.5	2-19
17-6	14.0	2-18	15.0	2-18	16.0	2-19	17.0	2-19
18-0	14.5	2-18	15.0	2-18	16.5	2-19	17.5	2-19
18-6	14.5	2-18	16.0	2-19	17.0	2-19	18.0	2-19
19-0	15.0	2-18	16.5	2-19	17.5	2-19	18.5	2-20
19-6	16.0	2-19	17.0	2-19	18.0	2-19	19.0	2-20
20-0	16.5	2-19	17.5	2-19	18.5	2-20	20.0	2-20
21-0	17.0	2-19	18.0	2-19	19.5	2-20	21.0	2-21
22-0	18.0	2-19	19.0	2-20	21.0	2-21	22.0	2-22
23-0	18.5	2-20	20.0	2-20	22.0	2-22	23.0	2-23
24-0	19.5	2-20	21.0	2-21	23.0	2-23	23.0	2-23
25-0	20.5	2-21	22.0	2-22	23.0	2-23	24.0	2-24
26-0	22.0	2-22	23.0	2-23	24.0	2-24	24.5	2-25
27-0	23.0	2-23	23.5	2-23	24.5	2-25	25.0	2-25
28-0	23.5	2-23	24.0	2-24	25.0	2-25	26.0	2-26
29-0	24.0	2-24	24.5	2-25	26.0	2-26	27.0	2-27
30-0	24.5	2-24	25.0	2-25	27.0	2-27	28.0	2-28

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.068		0.076		0.091		0.106		0.128	
C to C Beams	5'-0"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	1-2	6.5	1-3	6.5	1-3	.	.	.	.
6-6	6.5	1-3	6.5	1-3	6.5	1-4	6.5	1-4	.	.
7-0	6.5	1-4	6.5	1-4	6.5	2-1	6.5	2-2	6.5	2-2
7-6	6.5	2-1	6.5	2-2	6.5	2-2	6.5	2-2	6.5	2-3
8-0	7.0	2-2	7.0	2-2	7.0	2-2	7.0	2-3	7.0	2-3
8-6	7.0	2-2	7.0	2-2	7.0	2-3	7.0	2-3	7.0	2-3
9-0	7.5	2-2	7.5	2-3	7.5	2-3	7.5	2-3	7.5	2-4
9-6	7.5	2-2	7.5	2-3	7.5	2-3	7.5	2-4	7.5	2-4
10-0	8.0	2-3	8.0	2-3	8.0	2-3	8.0	2-4	8.5	2-4
10-6	8.5	2-3	8.5	2-3	8.5	2-4	8.5	2-4	9.5	2-5
11-0	8.5	2-3	8.5	2-4	8.5	2-4	9.5	2-5	9.5	2-6
11-6	9.0	2-3	9.0	2-4	9.0	2-4	10.0	2-5	10.0	2-6
12-0	9.0	2-4	9.5	2-4	10.0	2-5	10.0	2-6	10.0	2-6
12-6	9.5	2-4	10.5	2-5	10.5	2-6	10.5	2-6	10.5	2-7
13-0	9.5	2-4	10.5	2-5	10.5	2-6	10.5	2-7	10.5	2-7
13-6	10.5	2-4	11.0	2-6	11.0	2-6	11.0	2-7	11.0	2-8
14-0	11.5	2-5	11.5	2-6	11.5	2-6	11.5	2-7	11.5	2-8
14-6	11.5	2-5	11.5	2-6	11.5	2-7	11.5	2-8	11.5	2-8
15-0	12.0	2-6	12.0	2-6	12.0	2-7	12.0	2-8	12.0	2-9
15-6	12.0	2-6	12.0	2-7	12.0	2-8	12.0	2-8	12.0	2-9
16-0	12.5	2-6	12.5	2-7	12.5	2-8	12.5	2-8	12.5	2-9
16-6	13.0	2-7	13.0	2-7	13.0	2-8	13.0	2-9	13.0	2-10
17-0	13.0	2-7	13.0	2-8	13.0	2-9	13.0	2-9	13.0	2-10
17-6	13.5	2-7	13.5	2-8	13.5	2-9	13.5	2-10	13.5	2-10
18-0	13.5	2-8	13.5	2-8	13.5	2-9	13.5	2-10	13.5	2-11
18-6	14.0	2-8	14.0	2-9	14.0	2-10	14.0	2-10	14.0	2-11
19-0	14.0	2-8	14.0	2-9	14.0	2-10	14.0	2-11	14.0	2-11
19-6	14.5	2-8	14.5	2-9	14.5	2-10	15.0	2-11	15.0	2-11
20-0	15.0	2-9	15.0	2-10	15.0	2-10	16.0	2-11	16.0	2-12
21-0	15.5	2-9	15.5	2-10	15.5	2-11	16.5	2-12	16.5	2-12
22-0	16.0	2-10	16.0	2-11	16.0	2-11	17.0	2-12	17.0	2-12
23-0	17.0	2-10	17.0	2-11	17.0	2-12	18.0	2-12	18.0	2-12
24-0	17.5	2-10	17.5	2-11	17.5	2-12	18.5	2-12	18.5	2-13
25-0	18.0	2-11	18.0	2-12	18.0	2-12	19.0	2-13	19.0	2-13
26-0	19.0	2-11	19.0	2-12	19.0	2-12	20.0	2-13	20.0	2-14
27-0	19.5	2-12	19.5	2-12	19.5	2-13	20.5	2-13	20.5	2-14
28-0	20.5	2-12	20.5	2-12	20.5	2-13	21.5	2-14	21.5	2-14
29-0	21.5	2-12	21.5	2-12	21.5	2-13	22.5	2-14	22.5	2-15
30-0	22.0	2-12	22.0	2-13	22.0	2-14	23.0	2-15	23.0	2-16

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.142		0.161		0.182		0.204		0.227	
C to C Beams	7'-6"		8'-0"		8'-6"		9'-0"		9'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-6	6.5	2-3	. .	. .	. .	. .	. .	. .	. .	. .
8-0	7.0	2-3	7.0	2-4	. .	. .	. .	. .	. .	. .
8-6	7.0	2-4	7.0	2-4	7.5	2-4	. .	. .	. .	. .
9-0	7.5	2-4	7.5	2-4	8.5	2-5	8.5	2-6	. .	. .
9-6	8.0	2-4	8.5	2-5	8.5	2-6	8.5	2-6	8.5	2-7
10-0	9.0	2-5	9.0	2-6	9.0	2-6	9.0	2-7	9.0	2-7
10-6	9.5	2-6	9.5	2-6	9.5	2-7	9.5	2-7	9.5	2-8
11-0	9.5	2-6	9.5	2-7	9.5	2-7	9.5	2-8	9.5	2-8
11-6	10.0	2-7	10.0	2-7	10.0	2-8	10.0	2-8	10.0	2-9
12-0	10.0	2-7	10.0	2-7	10.0	2-8	10.0	2-9	10.0	2-9
12-6	10.5	2-7	10.5	2-8	10.5	2-9	10.5	2-9	10.5	2-10
13-0	10.5	2-8	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-10
13-6	11.0	2-8	11.0	2-9	11.0	2-9	11.0	2-10	11.0	2-10
14-0	11.5	2-8	11.5	2-9	11.5	2-10	11.5	2-10	11.5	2-11
14-6	11.5	2-9	11.5	2-9	11.5	2-10	11.5	2-10	11.5	2-11
15-0	12.0	2-9	12.0	2-10	12.0	2-10	12.0	2-11	12.0	2-12
15-6	12.0	2-10	12.0	2-10	12.0	2-11	12.0	2-11	12.0	2-12
16-0	12.5	2-10	12.5	2-10	12.5	2-11	12.5	2-12	12.5	2-12
16-6	13.0	2-10	13.0	2-11	13.0	2-11	13.0	2-12	13.0	2-12
17-0	13.0	2-11	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-12
17-6	13.5	2-11	13.5	2-12	13.5	2-12	13.5	2-12	13.5	2-13
18-0	13.5	2-11	13.5	2-12	13.5	2-12	13.5	2-12	13.5	2-13
18-6	14.0	2-12	14.0	2-12	14.0	2-12	14.0	2-13	14.0	2-13
19-0	14.0	2-12	14.0	2-12	14.0	2-12	14.0	2-13	14.0	2-14
19-6	15.0	2-12	15.0	2-12	15.0	2-13	15.0	2-13	15.0	2-14
20-0	16.0	2-12	16.0	2-12	16.0	2-13	16.0	2-14	16.0	2-14
21-0	16.5	2-12	16.5	2-13	16.5	2-13	16.5	2-14	16.5	2-15
22-0	17.0	2-13	17.0	2-13	17.0	2-14	17.0	2-15	17.0	2-15
23-0	18.0	2-13	18.0	2-14	18.0	2-14	18.0	2-15	18.0	2-16
24-0	18.5	2-13	18.5	2-14	18.5	2-15	18.5	2-15	18.5	2-16
25-0	19.0	2-14	19.0	2-15	19.0	2-16	19.0	2-16	19.0	2-17
26-0	20.0	2-14	20.0	2-15	20.0	2-16	20.0	2-17	20.0	2-17
27-0	20.5	2-15	20.5	2-16	20.5	2-16	20.5	2-17	20.5	2-18
28-0	21.5	2-15	21.5	2-16	21.5	2-17	21.5	2-17	21.5	2-18
29-0	22.5	2-16	22.5	2-17	22.5	2-17	22.5	2-18	22.5	2-18
30-0	23.0	2-17	23.0	2-17	23.0	2-18	23.5	2-19	23.5	2-19



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.070		0.085		0.101		0.118		0.137	
C to C Beams	5'-0"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	1-3	6.5	1-3	6.5	1-3	. .	. .	. .	. .
6-6	6.5	1-3	6.5	1-4	6.5	1-4	6.5	2-1	. .	. .
7-0	6.5	1-4	6.5	2-1	6.5	2-2	6.5	2-2	6.5	2-2
7-6	6.5	2-2	6.5	2-2	6.5	2-2	6.5	2-3	6.5	2-3
8-0	7.0	2-2	7.0	2-2	7.0	2-3	7.0	2-3	7.0	2-3
8-6	7.0	2-2	7.0	2-3	7.0	2-3	7.0	2-3	7.0	2-4
9-0	7.5	2-3	7.5	2-3	7.5	2-3	7.5	2-4	7.5	2-4
9-6	7.5	2-3	7.5	2-3	7.5	2-4	7.5	2-4	8.5	2-5
10-0	8.0	2-3	8.0	2-3	8.0	2-4	8.5	2-4	9.0	2-5
10-6	8.5	2-3	8.5	2-4	8.5	2-4	9.5	2-5	9.5	2-6
11-0	8.5	2-4	9.0	2-4	9.5	2-5	9.5	2-6	9.5	2-6
11-6	9.0	2-4	10.0	2-5	10.0	2-5	10.0	2-6	10.0	2-7
12-0	9.5	2-4	10.0	2-5	10.0	2-6	10.0	2-7	10.0	2-7
12-6	10.5	2-5	10.5	2-6	10.5	2-6	10.5	2-7	10.5	2-8
13-0	10.5	2-5	10.5	2-6	10.5	2-7	10.5	2-8	10.5	2-8
13-6	11.0	2-6	11.0	2-6	11.0	2-7	11.0	2-8	11.0	2-8
14-0	11.5	2-6	11.5	2-7	11.5	2-7	11.5	2-8	11.5	2-9
14-6	11.5	2-6	11.5	2-7	11.5	2-8	11.5	2-8	11.5	2-9
15-0	12.0	2-7	12.0	2-7	12.0	2-8	12.0	2-9	12.0	2-10
15-6	12.0	2-7	12.0	2-8	12.0	2-9	12.0	2-9	12.0	2-10
16-0	12.5	2-7	12.5	2-8	12.5	2-9	12.5	2-9	12.5	2-10
16-6	13.0	2-7	13.0	2-8	13.0	2-9	13.0	2-10	13.0	2-11
17-0	13.0	2-8	13.0	2-9	13.0	2-9	13.0	2-10	13.0	2-11
17-6	13.5	2-8	13.5	2-9	13.5	2-10	13.5	2-11	13.5	2-11
18-0	13.5	2-8	13.5	2-9	13.5	2-10	13.5	2-11	13.5	2-12
18-6	14.0	2-9	14.0	2-10	14.0	2-10	14.0	2-11	14.0	2-12
19-0	14.0	2-9	14.0	2-10	14.0	2-11	14.0	2-12	14.0	2-12
19-6	15.0	2-9	15.0	2-10	15.0	2-11	14.5	2-12	14.5	2-12
20-0	15.0	2-10	15.0	2-11	15.0	2-11	15.0	2-12	15.0	2-12
21-0	15.5	2-10	15.5	2-11	15.5	2-12	15.5	2-12	15.5	2-12
22-0	16.0	2-11	16.0	2-12	16.0	2-12	16.0	2-12	16.0	2-13
23-0	17.0	2-11	17.0	2-12	17.0	2-12	17.0	2-12	17.0	2-13
24-0	17.5	2-11	17.5	2-12	17.5	2-12	17.5	2-13	17.5	2-14
25-0	18.0	2-12	18.0	2-12	18.0	2-13	18.0	2-14	18.0	2-15
26-0	19.0	2-12	19.0	2-12	19.0	2-13	19.0	2-14	19.0	2-15
27-0	19.5	2-12	19.5	2-13	19.5	2-14	19.5	2-14	19.5	2-15
28-0	20.5	2-12	20.5	2-13	20.5	2-14	20.5	2-15	20.5	2-16
29-0	21.5	2-12	21.5	2-13	21.5	2-14	21.5	2-15	21.5	2-16
30-0	22.0	2-13	22.0	2-14	22.0	2-15	22.0	2-16	22.0	2-17

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.158		0.179		0.203		0.227		0.253	
C to C Beams	7'-6"		8'-0"		8'-6"		9'-0"		9'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-6	6.5	2-3	. .	. .	. .	. .	. .	. .	. .	. .
8-0	7.0	2-4	7.0	2-4	. .	. .	. .	. .	. .	. .
8-6	7.5	2-4	8.0	2-5	8.0	2-6	. .	. .	. .	. .
9-0	8.5	2-5	8.5	2-6	8.5	2-6	8.5	2-7	. .	. .
9-6	8.5	2-6	8.5	2-6	8.5	2-7	8.5	2-7	8.5	2-8
10-0	9-0	2-6	9.0	2-6	9.0	2-7	9.0	2-8	9.0	2-8
10-6	9.5	2-6	9.5	2-7	9.5	2-7	9.5	2-8	9.5	2-9
11-0	9.5	2-7	9.5	2-7	9.5	2-8	9.5	2-9	9.5	2-9
11-6	10.0	2-7	10.0	2-8	10.0	2-8	10.0	2-9	10.0	2-10
12-0	10.0	2-8	10.0	2-8	10.0	2-9	10.0	2-10	10.0	2-10
12-6	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-10	10.5	2-11
13-0	10.5	2-9	10.5	2-9	10.5	2-10	10.5	2-11	10.5	2-11
13-6	11.0	2-9	11.0	2-10	11.0	2-10	11.0	2-11	11.0	2-11
14-0	11.5	2-9	11.5	2-10	11.5	2-11	11.5	2-11	11.5	2-12
14-6	11.5	2-10	11.5	2-10	11.5	2-11	11.5	2-12	11.5	2-12
15-0	12.0	2-10	12.0	2-11	12.0	2-11	12.0	2-12	12.0	2-12
15-6	12.0	2-11	12.0	2-11	12.0	2-12	12.0	2-12	12.0	2-12
16-0	12.5	2-11	12.5	2-11	12.5	2-12	12.5	2-12	12.5	2-12
16-6	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-12	13.0	2-13
17-0	13.0	2-12	13.0	2-12	13.0	2-12	13.0	2-13	13.0	2-13
17-6	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-13	13.5	2-14
18-0	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-14	13.5	2-14
18-6	14.0	2-12	14.0	2-13	14.0	2-13	14.0	2-14	14.0	2-14
19-0	14.0	2-12	14.0	2-13	14.0	2-14	14.0	2-14	14.0	2-15
19-6	14.5	2-12	14.5	2-13	14.5	2-14	14.5	2-14	14.5	2-15
20-0	15.0	2-13	15.0	2-13	15.0	2-14	15.0	2-15	15.0	2-16
21-0	15.5	2-13	15.5	2-14	15.5	2-15	15.5	2-15	15.5	2-16
22-0	16.0	2-14	16.0	2-15	16.0	2-15	16.0	2-16	16.0	2-17
23-0	17.0	2-14	17.0	2-15	17.0	2-16	17.0	2-16	17.0	2-17
24-0	17.5	2-14	17.5	2-15	17.5	2-16	17.5	2-17	17.5	2-17
25-0	18.0	2-15	18.0	2-16	18.0	2-17	18.0	2-18	18.5	2-18
26-0	19.0	2-16	19.0	2-16	19.0	2-17	19.0	2-18	19.5	2-19
27-0	19.5	2-16	19.5	2-17	19.5	2-18	19.5	2-18	20.0	2-19
28-0	20.5	2-16	20.5	2-17	20.5	2-18	21.0	2-19	21.0	2-19
29-0	21.5	2-16	21.5	2-18	21.5	2-18	22.0	2-19	22.0	2-19
30-0	22.0	2-17	22.0	2-18	22.5	2-19	22.5	2-19	22.5	2-20

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.071		0.088		0.106		0.127		0.149	
C to C Beams	4'-6"		5'-0"		5'-6"		6'-0"		6'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	1-3	6.5	1-4	6.5	2-1	6.5	2-1	.	.
6-6	6.5	1-4	6.5	2-1	6.5	2-2	6.5	2-2	6.5	2-2
7-0	6.5	2-1	6.5	2-2	6.5	2-2	6.5	2-3	6.5	2-3
7-6	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-4	7.0	2-4
8-0	7.0	2-3	7.0	2-3	7.0	2-3	7.0	2-4	8.0	2-5
8-6	7.0	2-3	7.0	2-3	7.0	2-4	7.5	2-5	8.0	2-6
9-0	7.5	2-3	7.5	2-4	7.5	2-4	8.5	2-5	8.5	2-6
9-6	7.5	2-4	7.5	2-4	8.5	2-5	8.5	2-6	8.5	2-6
10-0	8.0	2-4	8.5	2-4	9.0	2-5	9.0	2-6	9.0	2-7
10-6	8.5	2-4	9.5	2-5	9.5	2-6	9.5	2-6	9.5	2-7
11-0	9.0	2-4	9.5	2-5	9.5	2-6	9.5	2-7	9.5	2-8
11-6	10.0	2-5	10.0	2-6	10.0	2-7	10.0	2-8	10.0	2-8
12-0	10.0	2-6	10.0	2-6	10.0	2-7	10.0	2-8	10.0	2-9
12-6	10.5	2-6	10.5	2-7	10.5	2-8	10.5	2-8	10.5	2-9
13-0	10.5	2-6	10.5	2-7	10.5	2-8	10.5	2-9	10.5	2-10
13-6	11.0	2-6	11.0	2-7	11.0	2-8	11.0	2-9	11.0	2-10
14-0	11.5	2-7	11.5	2-8	11.5	2-9	11.5	2-9	11.5	2-10
14-6	11.5	2-7	11.5	2-8	11.5	2-9	11.5	2-10	11.5	2-11
15-0	12.0	2-8	12.0	2-9	12.0	2-9	12.0	2-10	12.0	2-11
15-6	12.0	2-8	12.0	2-9	12.0	2-10	12.0	2-11	12.0	2-12
16-0	12.5	2-8	12.5	2-9	12.5	2-10	12.5	2-11	12.5	2-12
16-6	13.0	2-9	13.0	2-9	13.0	2-10	13.0	2-11	13.0	2-12
17-0	13.0	2-9	13.0	2-10	13.0	2-11	13.0	2-12	13.0	2-12
17-6	13.5	2-9	13.5	2-10	13.5	2-11	13.5	2-12	13.5	2-12
18-0	13.5	2-10	13.5	2-11	13.5	2-12	13.5	2-12	13.5	2-12
18-6	14.0	2-10	14.0	2-11	14.0	2-12	14.0	2-12	14.0	2-13
19-0	14.0	2-10	14.0	2-11	14.0	2-12	14.0	2-12	14.0	2-13
19-6	14.5	2-10	14.5	2-11	14.5	2-12	14.5	2-12	14.5	2-13
20-0	15.0	2-11	15.0	2-12	15.0	2-12	15.0	2-13	15.0	2-14
21-0	15.5	2-11	15.5	2-12	15.5	2-12	15.5	2-13	15.5	2-14
22-0	16.0	2-12	16.0	2-12	16.0	2-13	16.0	2-14	16.0	2-15
23-0	17.0	2-12	17.0	2-12	17.0	2-13	17.0	2-14	17.0	2-15
24-0	17.5	2-12	17.5	2-12	17.5	2-14	17.5	2-14	17.5	2-15
25-0	18.0	2-12	18.0	2-13	18.0	2-14	18.0	2-15	18.0	2-16
26-0	19.0	2-12	19.0	2-14	19.0	2-15	19.0	2-16	19.0	2-17
27-0	19.5	2-13	19.5	2-15	19.5	2-15	19.5	2-16	19.5	2-17
28-0	20.5	2-13	20.5	2-15	20.5	2-15	20.5	2-17	20.5	2-18
29-0	21.5	2-13	21.5	2-15	21.5	2-16	21.5	2-17	21.5	2-18
30-0	22.0	2-14	22.0	2-15	22.0	2-16	22.0	2-17	22.5	2-19

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

100 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.172		0.198		0.225		0.254		0.086	
C to C Beams	7'-0"		7'-6"		8'-0"		8'-6"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	.	.	.	.	.	.	.	.	6.5	1-4
6-6	.	.	.	.	.	.	.	.	6.5	2-2
7-0	6.5	2-4	.	.	.	.	.	.	6.5	2-2
7-6	7.0	2-4	7.5	2-5	.	.	.	.	6.5	2-3
8-0	8.0	2-6	8.0	2-6	8.0	2-7	.	.	7.0	2-3
8-6	8.0	2-6	8.0	2-7	8.0	2-7	8.0	2-8	7.0	2-4
9-0	8.5	2-6	8.5	2-7	8.5	2-8	8.5	2-8	7.5	2-4
9-6	8.5	2-7	8.5	2-8	8.5	2-8	8.5	2-9	8.5	2-5
10-0	9.0	2-7	9.0	2-8	9.0	2-8	9.0	2-9	9.0	2-5
10-6	9.5	2-8	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-6
11-0	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-10	9.5	2-6
11-6	10.0	2-9	10.0	2-10	10.0	2-10	10.0	2-11	10.0	2-6
12-0	10.0	2-9	10.0	2-10	10.0	2-11	10.0	2-11	10.0	2-7
12-6	10.5	2-10	10.5	2-11	10.5	2-11	10.5	2-12	10.5	2-7
13-0	10.5	2-10	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-8
13-6	11.0	2-11	11.0	2-11	11.0	2-12	11.0	2-12	11.0	2-8
14-0	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-8
14-6	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-9
15-0	12.0	2-12	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-9
15-6	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-14	12.0	2-10
16-0	12.5	2-12	12.5	2-12	12.5	2-13	12.5	2-14	12.5	2-10
16-6	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-14	13.0	2-10
17-0	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-11
17-6	13.5	2-13	13.5	2-14	13.5	2-14	13.5	2-15	13.5	2-11
18-0	13.5	2-13	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-11
18-6	14.0	2-14	14.0	2-15	14.0	2-15	14.0	2-16	14.0	2-12
19-0	14.0	2-14	14.0	2-15	14.0	2-16	14.0	2-17	14.0	2-12
19-6	14.5	2-14	14.5	2-15	14.5	2-16	14.5	2-17	14.5	2-12
20-0	15.0	2-15	15.0	2-15	15.0	2-16	15.0	2-17	15.0	2-12
21-0	15.5	2-15	15.5	2-16	15.5	2-17	15.5	2-18	15.5	2-12
22-0	16.0	2-16	16.0	2-17	16.0	2-18	16.5	2-18	16.0	2-13
23-0	17.0	2-16	17.0	2-17	17.0	2-18	17.5	2-19	17.0	2-13
24-0	17.5	2-16	17.5	2-17	17.5	2-18	18.0	2-19	17.5	2-13
25-0	18.0	2-17	18.0	2-18	18.5	2-19	18.5	2-19	18.0	2-14
26-0	19.0	2-18	19.5	2-19	19.5	2-19	19.5	2-19	19.0	2-14
27-0	19.5	2-18	20.0	2-19	20.0	2-19	20.0	2-20	19.5	2-15
28-0	21.0	2-19	21.0	2-19	21.0	2-19	21.0	2-20	20.5	2-15
29-0	22.0	2-19	22.0	2-19	22.0	2-20	22.0	2-21	21.5	2-16
30-0	22.5	2-19	22.5	2-19	22.5	2-20	22.5	2-21	22.0	2-16

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

100 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.106		0.128		0.152		0.179		0.207	
C to C Beams	5'-0"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-1	6.5	2-2	6.5	2-2	.	.	.	.
6-6	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-3	.	.
7-0	6.5	2-3	6.5	2-3	6.5	2-4	6.5	2-4	7.5	2-5
7-6	6.5	2-3	7.0	2-4	7.5	2-5	7.5	2-6	7.5	2-6
8-0	7.0	2-4	8.0	2-5	8.0	2-6	8.0	2-6	8.0	2-7
8-6	7.5	2-5	8.0	2-6	8.0	2-6	8.0	2-7	8.0	2-8
9-0	8.5	2-5	8.5	2-6	8.5	2-7	8.5	2-8	8.5	2-8
9-6	8.5	2-6	8.5	2-7	8.5	2-8	8.5	2-8	8.5	2-9
10-0	9.0	2-6	9.0	2-7	9.0	2-8	9.0	2-8	9.0	2-9
10-6	9.5	2-7	9.5	2-7	9.5	2-8	9.5	2-9	9.5	2-10
11-0	9.5	2-7	9.5	2-8	9.5	2-9	9.5	2-9	9.5	2-10
11-6	10.0	2-8	10.0	2-8	10.0	2-9	10.0	2-10	10.0	2-11
12-0	10.0	2-8	10.0	2-9	10.0	2-10	10.0	2-11	10.0	2-12
12-6	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-11	10.5	2-12
13-0	10.5	2-8	10.5	2-10	10.5	2-11	10.5	2-12	10.5	2-12
13-6	11.0	2-9	11.0	2-10	11.0	2-11	11.0	2-12	11.0	2-12
14-0	11.5	2-9	11.5	2-10	11.5	2-11	11.5	2-12	11.5	2-12
14-6	11.5	2-10	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-12
15-0	12.0	2-10	12.0	2-11	12.0	2-12	12.0	2-12	12.0	2-13
15-6	12.0	2-11	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-13
16-0	12.5	2-11	12.5	2-12	12.5	2-12	12.5	2-13	12.5	2-14
16-6	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-13	13.0	2-14
17-0	13.0	2-12	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-15
17-6	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-14	13.5	2-15
18-0	13.5	2-12	13.5	2-13	13.5	2-14	13.5	2-15	13.5	2-16
18-6	14.0	2-12	14.0	2-13	14.0	2-14	14.0	2-15	14.0	2-16
19-0	14.0	2-12	14.0	2-13	14.0	2-14	14.0	2-15	14.0	2-16
19-6	14.5	2-12	14.5	2-14	14.5	2-15	14.5	2-16	14.5	2-17
20-0	15.0	2-13	15.0	2-14	15.0	2-15	15.0	2-16	15.0	2-17
21-0	15.5	2-13	15.5	2-14	15.5	2-16	15.5	2-17	15.5	2-18
22-0	16.0	2-14	16.0	2-15	16.0	2-16	16.0	2-17	16.0	2-18
23-0	17.0	2-14	17.0	2-15	17.0	2-16	17.0	2-17	17.0	2-18
24-0	17.5	2-14	17.5	2-16	17.5	2-17	17.5	2-18	18.0	2-19
25-0	18.0	2-15	18.0	2-17	18.0	2-18	18.5	2-19	18.5	2-19
26-0	19.0	2-16	19.0	2-17	19.0	2-18	19.5	2-19	19.5	2-19
27-0	19.5	2-16	19.5	2-18	20.0	2-19	20.0	2-19	20.0	2-20
28-0	20.5	2-17	20.5	2-18	21.0	2-19	21.0	2-19	21.0	2-20
29-0	21.5	2-17	21.5	2-18	22.0	2-19	22.0	2-19	22.0	2-20
30-0	22.0	2-17	22.5	2-19	22.5	2-19	22.5	2-20	22.5	2-21

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

100 Lbs.

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.238		0.271		0.079		0.100		0.124	
C to C Beams	7'-6"		8'-0"		4'-0"		4'-6"		5'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	6.5	2-1	6.5	2-2	6.5	2-2
6-6	. .	. .	. .	. .	6.5	2-2	6.5	2-2	6.5	2-3
7-0	. .	. .	. .	. .	6.5	2-3	6.5	2-3	6.5	2-4
7-6	7.5	2-7	. .	. .	6.5	2-3	6.5	2-4	7.0	2-4
8-0	8.0	2-8	8.0	2-8	7.0	2-4	7.0	2-4	8.0	2-5
8-6	8.0	2-8	8.0	2-9	7.0	2-4	8.0	2-5	8.0	2-6
9-0	8.5	2-9	8.5	2-9	7.5	2-4	8.5	2-6	8.5	2-7
9-6	8.5	2-9	8.5	2-10	8.5	2-5	8.5	2-6	8.5	2-7
10-0	9.0	2-10	9.0	2-10	9.0	2-5	9.0	2-6	9.0	2-7
10-6	9.5	2-10	9.5	2-11	9.5	2-6	9.5	2-7	9.5	2-8
11-0	9.5	2-11	9.5	2-12	9.5	2-6	9.5	2-7	9.5	2-8
11-6	10.0	2-11	10.0	2-12	10.0	2-7	10.0	2-8	10.0	2-9
12-0	10.0	2-12	10.0	2-12	10.0	2-7	10.0	2-8	10.0	2-9
12-6	10.5	2-12	10.5	2-12	10.5	2-8	10.5	2-9	10.5	2-10
13-0	10.5	2-12	10.5	2-13	10.5	2-8	10.5	2-9	10.5	2-11
13-6	11.0	2-12	11.0	2-13	11.0	2-8	11.0	2-9	11.0	2-11
14-0	11.5	2-13	11.5	2-13	11.5	2-9	11.5	2-10	11.5	2-11
14-6	11.5	2-13	11.5	2-14	11.5	2-9	11.5	2-10	11.5	2-11
15-0	12.0	2-14	12.0	2-15	12.0	2-9	12.0	2-11	12.0	2-12
15-6	12.0	2-14	12.0	2-15	12.0	2-10	12.0	2-11	12.0	2-12
16-0	12.5	2-15	12.5	2-15	12.5	2-10	12.5	2-11	12.5	2-12
16-6	13.0	2-15	13.0	2-16	13.0	2-11	13.0	2-12	13.0	2-12
17-0	13.0	2-15	13.0	2-16	13.0	2-11	13.0	2-12	13.0	2-12
17-6	13.5	2-16	13.5	2-17	13.5	2-12	13.5	2-12	13.5	2-13
18-0	13.5	2-16	13.5	2-17	13.5	2-12	13.5	2-12	13.5	2-13
18-6	14.0	2-17	14.0	2-17	14.0	2-12	14.0	2-13	14.0	2-14
19-0	14.0	2-17	14.0	2-18	14.0	2-12	14.0	2-13	14.0	2-14
19-6	14.5	2-17	14.5	2-18	14.5	2-12	14.5	2-13	14.5	2-14
20-0	15.0	2-18	15.5	2-19	15.0	2-12	15.0	2-13	15.0	2-15
21-0	15.5	2-18	16.0	2-19	15.5	2-13	15.5	2-14	15.5	2-15
22-0	16.5	2-19	16.5	2-19	16.0	2-13	16.0	2-15	16.0	2-16
23-0	17.5	2-19	17.5	2-19	17.0	2-13	17.0	2-15	17.0	2-16
24-0	18.0	2-19	18.0	2-20	17.5	2-14	17.5	2-15	17.5	2-17
25-0	18.5	2-20	18.5	2-21	18.0	2-15	18.0	2-16	18.0	2-18
26-0	19.5	2-20	19.5	2-21	19.0	2-15	19.0	2-16	19.0	2-18
27-0	20.0	2-21	20.0	2-22	19.5	2-15	19.5	2-17	19.5	2-18
28-0	21.0	2-21	21.0	2-22	20.5	2-16	20.5	2-17	21.0	2-19
29-0	22.0	2-21	22.0	2-23	21.5	2-16	21.5	2-18	22.0	2-19
30-0	22.5	2-21	22.5	2-23	22.0	2-17	22.0	2-18	22.5	2-19

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.150		0.178		0.209		0.243		0.278	
C to C Beams	5'-6"		6'-0"		6'-6"		7'-0"		7'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-3	6.5	2-3	. .	. .	. .	. .	. .	. .
6-6	6.5	2-3	6.5	2-4	7.5	2-4	. .	. .	. .	. .
7-0	6.5	2-4	7.5	2-5	7.5	2-6	7.5	2-6	. .	. .
7-6	7.5	2-6	7.5	2-6	7.5	2-7	7.5	2-8	7.5	2-8
8-0	8.0	2-6	8.0	2-7	8.0	2-8	8.0	2-8	8.0	2-9
8-6	8.0	2-7	8.0	2-8	8.0	2-8	8.0	2-9	8.0	2-10
9-0	8.5	2-7	8.5	2-8	8.5	2-9	8.5	2-10	8.5	2-10
9-6	8.5	2-8	8.5	2-9	8.5	2-10	8.5	2-10	8.5	2-11
10-0	9.0	2-8	9.0	2-9	9.0	2-10	9.0	2-11	9.0	2-11
10-6	9.5	2-9	9.5	2-10	9.5	2-10	9.5	2-11	9.5	2-12
11-0	9.5	2-9	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-12
11-6	10.0	2-10	10.0	2-11	10.0	2-12	10.0	2-12	10.0	2-12
12-0	10.0	2-10	10.0	2-11	10.0	2-12	10.0	2-12	10.0	2-13
12-6	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-13
13-0	10.5	2-12	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-14
13-6	11.0	2-12	11.0	2-12	11.0	2-12	11.0	2-13	11.0	2-14
14-0	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-14	11.5	2-15
14-6	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-14	11.5	2-15
15-0	12.0	2-12	12.0	2-13	12.0	2-14	12.0	2-15	12.0	2-16
15-6	12.0	2-12	12.0	2-13	12.0	2-14	12.0	2-15	12.0	2-16
16-0	12.5	2-13	12.5	2-14	12.5	2-15	12.5	2-16	12.5	2-17
16-6	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-16	13.0	2-17
17-0	13.0	2-14	13.0	2-15	13.0	2-16	13.0	2-17	13.0	2-18
17-6	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-17	13.5	2-18
18-0	13.5	2-15	13.5	2-16	13.5	2-17	13.5	2-18	14.0	2-19
18-6	14.0	2-15	14.0	2-16	14.0	2-17	14.0	2-18	14.5	2-19
19-0	14.0	2-15	14.0	2-16	14.0	2-17	14.0	2-18	14.5	2-19
19-6	14.5	2-15	14.5	2-17	14.5	2-18	15.0	2-19	15.0	2-19
20-0	15.0	2-16	15.0	2-17	15.0	2-18	15.5	2-19	15.5	2-19
21-0	15.5	2-16	15.5	2-18	16.0	2-19	16.0	2-19	16.0	2-20
22-0	16.0	2-17	16.5	2-18	16.5	2-19	16.5	2-19	16.5	2-21
23-0	17.0	2-17	17.5	2-19	17.5	2-19	17.5	2-20	17.5	2-21
24-0	17.5	2-18	18.0	2-19	18.0	2-19	18.0	2-20	18.0	2-21
25-0	18.0	2-18	18.5	2-19	18.5	2-20	18.5	2-21	18.5	2-22
26-0	19.5	2-19	19.5	2-19	19.5	2-21	19.5	2-22	19.5	2-23
27-0	20.0	2-19	20.0	2-20	20.0	2-21	20.0	2-22	20.0	2-23
28-0	21.0	2-19	21.0	2-20	21.0	2-21	21.0	2-23	21.0	2-24
29-0	22.0	2-19	22.0	2-21	22.0	2-22	22.0	2-23	22.0	2-24
30-0	22.5	2-20	22.5	2-21	22.5	2-22	22.5	2-24	22.5	2-25

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

150 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.069		0.091		0.115		0.142		0.171	
C to C Beams	3'-6"		4'-0"		4'-6"		5'-0"		5'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-1	6.5	2-2	6.5	2-2	6.5	2-3	6.5	2-3
6-6	6.5	2-2	6.5	2-2	6.5	2-3	6.5	2-4	6.5	2-4
7-0	6.5	2-3	6.5	2-3	6.5	2-4	6.5	2-4	7.5	2-6
7-6	6.5	2-3	6.5	2-4	7.5	2-5	7.5	2-6	7.5	2-7
8-0	7.0	2-4	7.0	2-4	8.0	2-6	8.0	2-7	8.0	2-7
8-6	7.0	2-4	8.0	2-5	8.0	2-6	8.0	2-7	8.0	2-8
9-0	7.5	2-4	8.5	2-6	8.5	2-7	8.5	2-8	8.5	2-9
9-6	8.5	2-5	8.5	2-6	8.5	2-7	8.5	2-8	8.5	2-9
10-0	9.0	2-6	9.0	2-7	9.0	2-8	9.0	2-9	9.0	2-9
10-6	9.5	2-6	9.5	2-7	9.5	2-8	9.5	2-9	9.5	2-10
11-0	9.5	2-6	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-11
11-6	10.0	2-7	10.0	2-8	10.0	2-9	10.0	2-10	10.0	2-11
12-0	10.0	2-7	10.0	2-9	10.0	2-10	10.0	2-11	10.0	2-12
12-6	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-11	10.5	2-12
13-0	10.5	2-8	10.5	2-10	10.5	2-11	10.5	2-12	10.5	2-12
13-6	11.0	2-8	11.0	2-10	11.0	2-11	11.0	2-12	11.0	2-12
14-0	11.5	2-9	11.5	2-10	11.5	2-11	11.5	2-12	11.5	2-13
14-6	11.5	2-9	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-13
15-0	12.0	2-10	12.0	2-11	12.0	2-12	12.0	2-12	12.0	2-14
15-6	12.0	2-10	12.0	2-11	12.0	2-12	12.0	2-13	12.0	2-14
16-0	12.5	2-10	12.5	2-12	12.5	2-12	12.5	2-13	12.5	2-14
16-6	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-14	13.0	2-15
17-0	13.0	2-11	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-15
17-6	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-15	13.5	2-16
18-0	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-15	13.5	2-16
18-6	14.0	2-12	14.0	2-13	14.0	2-14	14.0	2-15	14.0	2-17
19-0	14.0	2-12	14.0	2-13	14.0	2-14	14.0	2-16	14.0	2-17
19-6	14.5	2-12	14.5	2-13	14.5	2-15	14.5	2-16	14.5	2-17
20-0	15.0	2-12	15.0	2-14	15.0	2-15	15.0	2-16	15.0	2-18
21-0	15.5	2-13	15.5	2-14	15.5	2-16	15.5	2-17	15.5	2-18
22-0	16.0	2-13	16.0	2-15	16.0	2-16	16.0	2-18	16.5	2-19
23-0	17.0	2-13	17.0	2-15	17.0	2-17	17.0	2-18	17.5	2-19
24-0	17.5	2-14	17.5	2-15	17.5	2-17	17.5	2-18	18.0	2-19
25-0	18.0	2-15	18.0	2-16	18.0	2-18	18.5	2-19	18.5	2-20
26-0	19.0	2-15	19.0	2-17	19.0	2-18	19.5	2-19	19.5	2-20
27-0	19.5	2-15	19.5	2-17	20.0	2-19	20.0	2-19	20.0	2-21
28-0	20.5	2-16	20.5	2-18	21.0	2-19	21.0	2-19	21.0	2-21
29-0	21.5	2-16	21.5	2-18	22.0	2-19	22.0	2-20	22.0	2-21
30-0	22.0	2-17	22.0	2-18	22.5	2-19	22.5	2-21	22.5	2-22



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

150 Lbs.

200 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.204		0.239		0.278		0.087		0.114	
C to C Beams	6'-0"		6'-6"		7'-0"		8'-6"		4'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-4	. .	. .	. .	. .	6.5	2-2	6.5	2-3
6-6	7.5	2-5	7.5	2-6	. .	. .	6.5	2-3	6.5	2-4
7-0	7.5	2-6	7.5	2-7	7.5	2-8	6.5	2-4	6.5	2-4
7-6	7.5	2-8	7.5	2-8	7.5	2-9	7.0	2-4	7.5	2-6
8-0	8.0	2-8	8.0	2-9	8.0	2-10	8.0	2-6	8.0	2-7
8-6	8.0	2-9	8.0	2-10	8.0	2-10	8.0	2-6	8.0	2-7
9-0	8.5	2-9	8.5	2-10	8.5	2-11	8.5	2-7	8.5	2-8
9-6	8.5	2-10	8.5	2-11	8.5	2-12	8.5	2-7	8.5	2-8
10-0	9.0	2-10	9.0	2-11	9.0	2-12	9.0	2-7	9.0	2-9
10-6	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-8	9.5	2-9
11-0	9.5	2-12	9.5	2-12	9.5	2-12	9.5	2-8	9.5	2-10
11-6	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-9	10.0	2-10
12-0	10.0	2-12	10.0	2-13	10.0	2-14	10.0	2-9	10.0	2-11
12-6	10.5	2-12	10.5	2-13	10.5	2-14	10.5	2-10	10.5	2-11
13-0	10.5	2-13	10.5	2-14	10.5	2-15	10.5	2-10	10.5	2-12
13-6	11.0	2-13	11.0	2-14	11.0	2-15	11.0	2-10	11.0	2-12
14-0	11.5	2-14	11.5	2-15	11.5	2-16	11.5	2-10	11.5	2-12
14-6	11.5	2-14	11.5	2-15	11.5	2-16	11.5	2-11	11.5	2-12
15-0	12.0	2-15	12.0	2-16	12.0	2-17	12.0	2-11	12.0	2-13
15-6	12.0	2-15	12.0	2-16	12.0	2-17	12.0	2-12	12.0	2-13
16-0	12.5	2-15	12.5	2-16	12.5	2-17	12.5	2-12	12.5	2-13
16-6	13.0	2-16	13.0	2-17	13.0	2-18	13.0	2-12	13.0	2-14
17-0	13.0	2-16	13.0	2-18	13.0	2-18	13.0	2-12	13.0	2-14
17-6	13.5	2-17	13.5	2-18	14.0	2-19	13.5	2-13	13.5	2-15
18-0	13.5	2-17	13.5	2-18	14.0	2-19	13.5	2-13	13.5	2-15
18-6	14.0	2-18	14.5	2-19	14.5	2-19	14.0	2-14	14.0	2-15
19-0	14.0	2-18	14.5	2-19	14.5	2-20	14.0	2-14	14.0	2-16
19-6	14.5	2-18	15.0	2-19	15.0	2-20	14.5	2-14	14.5	2-16
20-0	15.5	2-19	15.5	2-19	15.5	2-20	15.0	2-15	15.0	2-16
21-0	16.0	2-19	16.0	2-20	16.0	2-21	15.5	2-15	15.5	2-17
22-0	16.5	2-19	16.5	2-21	16.5	2-22	16.0	2-16	16.0	2-18
23-0	17.5	2-20	17.5	2-21	17.5	2-22	17.0	2-16	17.0	2-18
24-0	18.0	2-20	18.0	2-21	18.0	2-22	17.5	2-17	17.5	2-18
25-0	18.5	2-21	18.5	2-22	18.5	2-23	18.0	2-18	18.5	2-19
26-0	19.5	2-21	19.5	2-23	19.5	2-24	19.0	2-18	19.5	2-19
27-0	20.0	2-22	20.0	2-23	20.0	2-25	19.5	2-18	20.0	2-19
28-0	21.0	2-22	21.0	2-24	21.0	2-25	21.0	2-19	21.0	2-20
29-0	22.0	2-23	22.0	2-24	22.0	2-25	22.0	2-19	22.0	2-20
30-0	22.5	2-23	22.5	2-25	22.5	2-26	22.5	2-19	22.5	2-21

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

200 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.144		0.177		0.215		0.255		0.300	
C to C Beams	4'-6"		5'-0"		5'-6"		6'-0"		6'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-3	6.5	2-4	6.5	2-4	7.5	2-5	.	.
6-6	6.5	2-4	7.5	2-5	7.5	2-6	7.5	2-7	7.5	2-8
7-0	7.5	2-6	7.5	2-7	7.5	2-8	7.5	2-8	7.5	2-9
7-6	7.5	2-7	7.5	2-8	7.5	2-9	7.5	2-9	8.0	2-10
8-0	8.0	2-8	8.0	2-9	8.0	2-9	8.0	2-10	8.0	2-11
8-6	8.0	2-8	8.0	2-9	8.0	2-10	8.0	2-11	8.5	2-11
9-0	8.5	2-9	8.5	2-10	8.5	2-11	8.5	2-11	9.0	2-12
9-6	8.5	2-10	8.5	2-11	8.5	2-12	8.5	2-12	9.0	2-12
10-0	9.0	2-10	9.0	2-11	9.0	2-12	9.0	2-12	9.5	2-13
10-6	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-13	9.5	2-13
11-0	9.5	2-11	9.5	2-12	9.5	2-13	9.5	2-13	10.0	2-14
11-6	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-14	10.5	2-14
12-0	10.0	2-12	10.0	2-12	10.0	2-13	10.5	2-14	10.5	2-15
12-6	10.5	2-12	10.5	2-13	10.5	2-14	10.5	2-15	11.0	2-15
13-0	10.5	2-12	10.5	2-13	10.5	2-15	11.0	2-16	11.5	2-16
13-6	11.0	2-12	11.0	2-14	11.0	2-15	11.0	2-16	11.5	2-16
14-0	11.5	2-13	11.5	2-14	11.5	2-15	11.5	2-16	12.0	2-17
14-6	11.5	2-13	11.5	2-15	11.5	2-16	12.0	2-17	12.0	2-17
15-0	12.0	2-14	12.0	2-15	12.0	2-17	12.0	2-17	12.5	2-18
15-6	12.0	2-14	12.0	2-16	12.0	2-17	12.5	2-18	13.5	2-19
16-0	12.5	2-15	12.5	2-16	12.5	2-17	12.5	2-18	13.5	2-19
16-6	13.0	2-15	13.0	2-17	13.0	2-18	13.5	2-19	14.0	2-19
17-0	13.0	2-16	13.0	2-17	13.0	2-18	13.5	2-19	14.5	2-19
17-6	13.5	2-16	13.5	2-17	14.0	2-19	14.0	2-19	14.5	2-19
18-0	13.5	2-17	13.5	2-17	14.0	2-19	14.5	2-19	15.0	2-20
18-6	14.0	2-17	14.0	2-18	14.5	2-19	14.5	2-19	15.5	2-20
19-0	14.0	2-17	14.5	2-19	14.5	2-19	15.0	2-20	15.5	2-21
19-6	14.5	2-18	15.0	2-19	15.0	2-20	15.5	2-20	16.0	2-21
20-0	15.0	2-18	15.5	2-19	15.5	2-20	15.5	2-21	16.5	2-22
21-0	16.0	2-19	16.0	2-19	16.0	2-21	16.5	2-22	17.0	2-22
22-0	16.5	2-19	16.5	2-20	16.5	2-22	17.0	2-22	18.0	2-23
23-0	17.5	2-19	17.5	2-20	17.5	2-22	17.5	2-22	19.0	2-23
24-0	18.0	2-19	18.0	2-21	18.0	2-22	18.0	2-23	19.5	2-24
25-0	18.5	2-20	18.5	2-22	18.5	2-23	19.0	2-23	20.5	2-24
26-0	19.5	2-20	19.5	2-22	19.5	2-24	20.0	2-24	21.5	2-25
27-0	20.0	2-21	20.0	2-23	20.0	2-24	21.0	2-25	22.5	2-25
28-0	21.0	2-21	21.0	2-23	21.0	2-25	22.0	2-25	23.5	2-26
29-0	22.0	2-22	22.0	2-23	22.0	2-25	23.5	2-26	.	.
30-0	22.5	2-22	22.5	2-24	22.5	2-26	.	.	.	.

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

250 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.077		0.104		0.136		0.173		0.213	
C to C Beams	3'-0"		3'-6"		4'-0"		4'-6"		5'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-2	6.5	2-3	6.5	2-4	6.5	2-4	7.5	2-5
6-6	6.5	2-3	6.5	2-4	7.5	2-5	7.5	2-6	7.5	2-7
7-0	6.5	2-4	7.5	2-5	7.5	2-6	7.5	2-7	7.5	2-8
7-6	7.5	2-5	7.5	2-6	7.5	2-8	7.5	2-9	7.5	2-9
8-0	8.0	2-6	8.0	2-7	8.0	2-8	8.0	2-10	8.0	2-10
8-6	8.0	2-7	8.0	2-8	8.0	2-9	8.0	2-10	8.5	2-11
9-0	8.5	2-7	8.5	2-8	8.5	2-10	8.5	2-10	8.5	2-12
9-6	8.5	2-7	8.5	2-9	8.5	2-10	8.5	2-11	9.0	2-12
10-0	9.0	2-8	9.0	2-9	9.0	2-10	9.0	2-12	9.0	2-12
10-6	9.5	2-8	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-13
11-0	9.5	2-9	9.5	2-10	9.5	2-12	9.5	2-12	10.0	2-14
11-6	10.0	2-9	10.0	2-11	10.0	2-12	10.0	2-13	10.0	2-14
12-0	10.0	2-10	10.0	2-11	10.0	2-12	10.0	2-13	10.5	2-14
12-6	10.5	2-10	10.5	2-12	10.5	2-12	10.5	2-14	10.5	2-15
13-0	10.5	2-11	10.5	2-12	10.5	2-13	10.5	2-14	11.0	2-15
13-6	11.0	2-11	11.0	2-12	11.0	2-13	11.0	2-15	11.5	2-16
14-0	11.5	2-11	11.5	2-12	11.5	2-14	11.5	2-15	11.5	2-16
14-6	11.5	2-12	11.5	2-12	11.5	2-14	11.5	2-16	12.0	2-17
15-0	12.0	2-12	12.0	2-13	12.0	2-15	12.0	2-16	12.0	2-17
15-6	12.0	2-12	12.0	2-14	12.0	2-15	12.0	2-17	12.5	2-18
16-0	12.5	2-12	12.5	2-14	12.5	2-15	12.5	2-17	13.5	2-19
16-6	13.0	2-12	13.0	2-14	13.0	2-16	13.0	2-18	13.5	2-19
17-0	13.0	2-13	13.0	2-15	13.0	2-16	13.0	2-18	14.0	2-19
17-6	13.5	2-13	13.5	2-15	13.5	2-17	13.5	2-18	14.0	2-19
18-0	13.5	2-14	13.5	2-16	13.5	2-17	14.0	2-19	14.5	2-19
18-6	14.0	2-14	14.0	2-16	14.0	2-18	14.5	2-19	15.0	2-20
19-0	14.0	2-14	14.0	2-16	14.0	2-18	14.5	2-19	15.0	2-20
19-6	14.5	2-15	14.5	2-17	14.5	2-18	15.0	2-19	15.5	2-20
20-0	15.0	2-15	15.0	2-17	15.5	2-19	15.5	2-20	16.0	2-21
21-0	15.5	2-16	15.5	2-18	16.0	2-19	16.0	2-20	16.5	2-22
22-0	16.0	2-16	16.0	2-18	16.5	2-19	16.5	2-21	17.0	2-22
23-0	17.0	2-17	17.5	2-19	17.5	2-20	17.5	2-21	18.0	2-23
24-0	17.5	2-17	18.0	2-19	18.0	2-20	18.0	2-22	19.0	2-23
25-0	18.0	2-18	18.5	2-19	18.5	2-21	19.0	2-23	20.0	2-24
26-0	19.0	2-18	19.5	2-19	19.5	2-21	19.5	2-23	20.5	2-24
27-0	20.0	2-19	20.0	2-20	20.0	2-22	20.0	2-24	21.5	2-25
28-0	21.0	2-19	21.0	2-20	21.0	2-22	21.0	2-24	22.5	2-25
29-0	22.0	2-19	22.0	2-21	22.0	2-23	22.0	2-25	23.5	2-26
30-0	22.5	2-19	22.5	2-21	22.5	2-23	22.5	2-25	. . .	. . .

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

250 Lbs.

300 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.258		0.307		0.090		0.122		0.159	
C to C Beams	5'-0"		6'-0"		3'-0"		3'-6"		4'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	7.5	2-6	7.5	2-7	6.5	2-3	6.5	2-4	7.5	2-5
6-6	7.5	2-8	7.5	2-8	6.5	2-4	7.5	2-5	7.5	2-6
7-0	7.5	2-9	8.0	2-10	7.5	2-5	7.5	2-7	7.5	2-8
7-6	8.0	2-10	8.0	2-11	7.5	2-6	7.5	2-8	7.5	2-9
8-0	8.0	2-11	8.5	2-11	8.0	2-7	8.0	2-9	8.0	2-10
8-6	8.5	2-12	9.0	2-12	8.0	2-8	8.0	2-9	8.0	2-11
9-0	9.0	2-12	9.0	2-12	8.5	2-8	8.5	2-10	8.5	2-11
9-6	9.0	2-12	9.5	2-13	8.5	2-9	8.5	2-10	8.5	2-12
10-0	9.5	2-13	9.5	2-13	9.0	2-9	9.0	2-11	9.0	2-12
10-6	10.0	2-14	10.0	2-14	9.5	2-10	9.5	2-11	9.5	2-12
11-0	10.0	2-14	10.5	2-14	9.5	2-10	9.5	2-12	9.5	2-12
11-6	10.5	2-14	10.5	2-15	10.0	2-11	10.0	2-12	10.0	2-13
12-0	10.5	2-15	11.0	2-16	10.0	2-11	10.0	2-12	10.0	2-14
12-6	11.0	2-16	11.5	2-16	10.5	2-12	10.5	2-13	10.5	2-14
13-0	11.5	2-16	11.5	2-16	10.5	2-12	10.5	2-13	10.5	2-15
13-6	11.5	2-16	12.0	2-17	11.0	2-12	11.0	2-14	11.0	2-15
14-0	12.0	2-17	12.5	2-18	11.5	2-12	11.5	2-14	11.5	2-16
14-6	12.5	2-18	12.5	2-18	11.5	2-13	11.5	2-14	11.5	2-16
15-0	12.5	2-18	13.5	2-19	12.0	2-13	12.0	2-15	12.0	2-17
15-6	13.5	2-19	14.0	2-19	12.0	2-14	12.0	2-15	12.0	2-17
16-0	14.0	2-19	14.0	2-19	12.5	2-14	12.5	2-16	12.5	2-18
16-6	14.0	2-19	14.5	2-19	13.0	2-14	13.0	2-16	13.0	2-18
17-0	14.5	2-19	15.0	2-20	13.0	2-15	13.0	2-17	13.5	2-19
17-6	14.5	2-19	15.5	2-20	13.5	2-15	13.5	2-17	14.0	2-19
18-0	15.0	2-20	15.5	2-21	13.5	2-16	13.5	2-18	14.0	2-19
18-6	15.5	2-20	16.0	2-21	14.0	2-16	14.0	2-18	14.5	2-19
19-0	15.5	2-21	16.5	2-22	14.0	2-17	14.5	2-19	14.5	2-20
19-6	16.0	2-21	17.0	2-22	14.5	2-17	15.0	2-19	15.0	2-20
20-0	16.5	2-22	17.5	2-22	15.0	2-17	15.5	2-19	15.5	2-20
21-0	17.5	2-22	18.0	2-23	15.5	2-18	16.0	2-19	16.0	2-21
22-0	18.0	2-23	19.0	2-23	16.5	2-18	16.5	2-20	16.5	2-22
23-0	19.0	2-23	20.0	2-24	17.5	2-19	17.5	2-20	17.5	2-22
24-0	20.0	2-24	21.0	2-25	18.0	2-19	18.0	2-20	18.0	2-23
25-0	20.5	2-24	22.0	2-25	18.5	2-19	18.5	2-21	18.5	2-24
26-0	21.5	2-25	23.0	2-25	19.5	2-19	19.5	2-22	19.5	2-24
27-0	22.5	2-25	. . .	. . .	20.0	2-20	20.0	2-22	20.0	2-25
28-0	23.5	2-26	. . .	. . .	21.0	2-20	21.0	2-23	21.0	2-25
29-0	. . .	. . .	. . .	. . .	22.0	2-21	22.0	2-23	22.0	2-25
30-0	. . .	. . .	. . .	. . .	22.5	2-21	22.5	2-24	22.5	2-26

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

300 Lbs.

350 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.202		0.249		0.301		0.103	
C to C Beams	4'-6"		5'-0"		5'-6"		3'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	7.5	2-6	7.5	2-7	7.5	2-8	6.5	2-4
6-6	7.5	2-7	7.5	2-8	7.5	2-9	7.5	2-5
7-0	7.5	2-9	7.5	2-10	8.0	2-10	7.5	2-6
7-6	8.0	2-10	8.0	2-11	8.5	2-11	7.5	2-8
8-0	8.0	2-11	8.5	2-11	8.5	2-12	8.0	2-8
8-6	8.5	2-11	8.5	2-12	9.0	2-12	8.0	2-9
9-0	8.5	2-12	9.0	2-12	9.5	2-13	8.5	2-10
9-6	9.0	2-12	9.5	2-13	9.5	2-13	8.5	2-10
10-0	9.5	2-13	9.5	2-13	10.0	2-14	9.0	2-10
10-6	9.5	2-13	10.0	2-14	10.5	2-14	9.5	2-11
11-0	10.0	2-14	10.5	2-14	10.5	2-15	9.5	2-12
11-6	10.5	2-14	10.5	2-15	11.0	2-16	10.0	2-12
12-0	10.5	2-15	11.0	2-15	11.5	2-16	10.0	2-12
12-6	11.0	2-15	11.5	2-16	11.5	2-16	10.5	2-12
13-0	11.0	2-16	11.5	2-16	12.0	2-17	10.5	2-13
13-6	11.5	2-16	12.0	2-17	12.5	2-18	11.0	2-13
14-0	12.0	2-17	12.5	2-18	12.5	2-18	11.5	2-14
14-6	12.0	2-17	12.5	2-18	13.5	2-19	11.5	2-14
15-0	12.5	2-18	13.5	2-19	14.0	2-19	12.0	2-15
15-6	12.5	2-18	14.0	2-19	14.0	2-19	12.0	2-15
16-0	13.5	2-19	14.0	2-19	14.5	2-19	12.5	2-16
16-6	14.0	2-19	14.5	2-19	15.0	2-20	13.0	2-16
17-0	14.0	2-19	15.0	2-20	15.5	2-20	13.0	2-17
17-6	14.5	2-19	15.0	2-20	15.5	2-21	13.5	2-17
18-0	15.0	2-20	15.5	2-20	16.0	2-21	13.5	2-17
18-6	15.0	2-20	16.0	2-21	16.5	2-22	14.0	2-18
19-0	15.5	2-20	16.0	2-21	17.0	2-22	14.0	2-18
19-6	16.0	2-21	16.5	2-22	17.0	2-22	15.0	2-19
20-0	16.0	2-21	17.0	2-22	17.5	2-22	15.5	2-19
21-0	17.0	2-22	17.5	2-22	18.5	2-23	16.0	2-19
22-0	17.5	2-22	18.5	2-23	19.5	2-24	16.5	2-19
23-0	18.5	2-23	19.5	2-24	20.5	2-24	17.5	2-20
24-0	19.5	2-24	20.5	2-24	21.5	2-25	18.0	2-20
25-0	20.5	2-24	21.5	2-25	22.5	2-25	18.5	2-21
26-0	21.0	2-25	22.5	2-25	23.5	2-26	19.5	2-21
27-0	22.0	2-25	23.5	2-26	..	..	20.0	2-22
28-0	23.0	2-25	..	..	..	..	21.0	2-22
29-0	..	..	..	..	..	..	22.0	2-23
30-0	..	..	..	..	..	..	22.5	2-23

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot

350 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.140		0.182		0.231		0.285	
C to C Beams	3'-6"		4'-0"		4'-6"		5'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	7.5	2-5	7.5	2-6	7.5	2-7	7.5	2-8
6-6	7.5	2-6	7.5	2-7	7.5	2-9	7.5	2-10
7-0	7.5	2-8	7.5	2-9	8.0	2-10	8.0	2-11
7-6	7.5	2-9	8.0	2-10	8.0	2-11	8.5	2-11
8-0	8.0	2-10	8.0	2-11	8.5	2-11	8.5	2-12
8-6	8.0	2-11	8.5	2-11	9.0	2-12	9.0	2-12
9-0	8.5	2-11	9.0	2-12	9.0	2-12	9.5	2-13
9-6	8.5	2-12	9.0	2-12	9.5	2-13	10.0	2-14
10-0	9.0	2-12	9.5	2-13	10.0	2-14	10.0	2-14
10-6	9.5	2-12	9.5	2-13	10.0	2-14	10.5	2-14
11-0	9.5	2-12	10.0	2-14	10.5	2-15	11.0	2-15
11-6	10.0	2-13	10.5	2-14	10.5	2-15	11.0	2-16
12-0	10.0	2-14	10.5	2-15	11.0	2-16	11.5	2-16
12-6	10.5	2-14	11.0	2-15	11.5	2-16	12.0	2-17
13-0	10.5	2-15	11.5	2-16	11.5	2-16	12.0	2-17
13-6	11.0	2-15	11.5	2-16	12.0	2-17	12.5	2-18
14-0	11.5	2-16	12.0	2-17	12.5	2-18	13.5	2-19
14-6	11.5	2-16	12.0	2-17	12.5	2-18	13.5	2-19
15-0	12.0	2-17	12.5	2-18	13.5	2-19	14.0	2-19
15-6	12.5	2-17	13.5	2-19	14.0	2-19	14.5	2-19
16-0	12.5	2-18	13.5	2-19	14.0	2-19	15.0	2-20
16-6	13.0	2-18	14.0	2-19	14.5	2-19	15.0	2-20
17-0	13.5	2-19	14.5	2-19	15.0	2-20	15.5	2-20
17-6	14.0	2-19	14.5	2-19	15.0	2-20	16.0	2-21
18-0	14.0	2-19	15.0	2-20	15.5	2-21	16.5	2-22
18-6	14.5	2-19	15.0	2-20	16.0	2-21	17.0	2-22
19-0	14.5	2-20	15.5	2-21	16.5	2-22	17.0	2-22
19-6	15.0	2-20	16.0	2-21	17.0	2-22	17.5	2-22
20-0	15.5	2-20	16.5	2-22	17.5	2-22	18.0	2-23
21-0	16.0	2-21	17.0	2-22	18.0	2-23	19.0	2-23
22-0	16.5	2-22	18.0	2-23	19.0	2-23	20.0	2-24
23-0	17.5	2-22	19.0	2-23	20.0	2-24	21.0	2-25
24-0	18.0	2-23	19.5	2-24	21.0	2-25	22.0	2-25
25-0	18.5	2-24	20.5	2-24	22.0	2-25	23.0	2-25
26-0	19.5	2-24	21.5	2-25	23.0	2-25	..	..
27-0	20.0	2-25	22.5	2-25	..	..	..	..
28-0	21.0	2-25	23.5	2-26	..	..	..	..
29-0	22.0	2-25	..	..	..	..	..	..
30-0	22.5	2-26	..	..	..	..	..	..

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4-inch Slab

Safe Live Load in Pounds per Square Foot  
400 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.115		0.157		0.205		0.260	
C to C Beams	3'-0"		3'-6"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	6.5	2-4	7.5	2-6	7.5	2-7	7.5	2-8
6-6	7.5	2-6	7.5	2-7	7.5	2-9	7.5	2-10
7-0	7.5	2-7	7.5	2-9	8.0	2-10	8.0	2-11
7-6	7.5	2-9	8.0	2-10	8.0	2-11	8.5	2-11
8-0	8.0	2-9	8.0	2-11	8.5	2-11	9.0	2-12
8-6	8.0	2-10	8.5	2-11	9.0	2-12	9.0	2-12
9-0	8.5	2-11	8.5	2-12	9.0	2-12	9.5	2-13
9-6	8.5	2-11	9.0	2-12	9.5	2-13	10.0	2-14
10-0	9.0	2-12	9.5	2-13	10.0	2-14	10.0	2-14
10-6	9.5	2-12	9.5	2-13	10.0	2-14	10.5	2-14
11-0	9.5	2-12	10.0	2-14	10.5	2-14	11.0	2-15
11-6	10.0	2-13	10.5	2-14	10.5	2-15	11.0	2-16
12-0	10.0	2-13	10.5	2-15	11.0	2-16	11.5	2-16
12-6	10.5	2-14	11.0	2-15	11.5	2-16	12.0	2-17
13-0	10.5	2-14	11.0	2-16	11.5	2-16	12.0	2-17
13-6	11.0	2-15	11.5	2-16	12.0	2-17	12.5	2-18
14-0	11.5	2-15	12.0	2-17	12.5	2-18	13.5	2-19
14-6	11.5	2-16	12.0	2-17	13.0	2-18	14.0	2-19
15-0	12.0	2-16	12.5	2-18	13.5	2-19	14.0	2-19
15-6	12.0	2-17	13.5	2-19	14.0	2-19	14.5	2-19
16-0	12.5	2-17	13.5	2-19	14.0	2-19	15.0	2-20
16-6	13.0	2-18	14.0	2-19	14.5	2-19	15.0	2-20
17-0	13.0	2-18	14.0	2-19	15.0	2-20	15.5	2-21
17-6	14.0	2-19	14.5	2-19	15.0	2-20	16.0	2-21
18-0	14.0	2-19	15.0	2-20	15.5	2-21	16.5	2-22
18-6	14.5	2-19	15.0	2-20	16.0	2-21	17.0	2-22
19-0	14.5	2-20	15.5	2-20	16.5	2-22	17.5	2-22
19-6	15.0	2-20	16.0	2-21	17.0	2-22	17.5	2-22
20-0	15.5	2-20	16.5	2-22	17.5	2-22	18.0	2-23
21-0	16.0	2-20	17.0	2-22	18.0	2-23	19.0	2-23
22-0	16.5	2-21	17.5	2-22	19.0	2-23	20.0	2-24
23-0	17.5	2-21	18.5	2-23	20.0	2-24	21.0	2-25
24-0	18.0	2-22	19.5	2-24	21.0	2-25	22.0	2-25
25-0	18.5	2-23	20.5	2-24	22.0	2-25	23.5	2-26
26-0	19.5	2-24	21.5	2-25	23.0	2-25	..	..
27-0	20.0	2-24	22.5	2-25	..	..	..	..
28-0	21.0	2-24	23.5	2-26	..	..	..	..
29-0	22.0	2-25	..	..	..	..	..	..
30-0	22.5	2-25	..	..	..	..	..	..

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.088		0.097		0.118		0.130		0.148	
C to C Beams	6'-0"		6'-6"		7'-0"		7'-6"		8'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	1-4	..	..	..	..	..	..	..	..
6-6	6.5	1-4	..	..	..	..	..	..	..	..
7-0	6.5	2-2	..	..	..	..	..	..	..	..
7-6	6.5	2-2	..	..	..	..	..	..	..	..
8-0	7.0	2-3	7.0	2-3	7.0	2-3	7.0	2-4	7.0	2-4
8-6	7.0	2-3	7.0	2-3	7.0	2-4	7.0	2-4	8.0	2-5
9-0	7.5	2-3	7.5	2-4	7.5	2-4	7.5	2-4	8.5	2-5
9-6	7.5	2-4	7.5	2-4	7.5	2-4	8.5	2-5	8.5	2-6
10-0	8.0	2-4	8.0	2-4	8.0	2-4	9.0	2-6	9.0	2-6
10-6	8.5	2-4	8.5	2-4	8.5	2-5	9.5	2-6	9.5	2-7
11-0	8.5	2-4	9.5	2-5	9.5	2-6	9.5	2-7	9.5	2-7
11-6	10.0	2-5	10.0	2-6	10.0	2-6	10.0	2-7	10.0	2-8
12-0	10.0	2-6	10.0	2-6	10.0	2-7	10.0	2-8	10.0	2-8
12-6	10.5	2-6	10.5	2-7	10.5	2-7	10.5	2-8	10.5	2-9
13-0	10.5	2-7	10.5	2-7	10.5	2-8	10.5	2-8	10.5	2-9
13-6	11.0	2-7	11.0	2-7	11.0	2-8	11.0	2-9	11.0	2-9
14-0	11.5	2-7	11.5	2-8	11.5	2-8	11.5	2-9	11.5	2-10
14-6	11.5	2-8	11.5	2-8	11.5	2-9	11.5	2-10	11.5	2-10
15-0	12.0	2-8	12.0	2-9	12.0	2-9	12.0	2-10	12.0	2-11
15-6	12.0	2-8	12.0	2-9	12.0	2-10	12.0	2-10	12.0	2-11
16-0	12.5	2-8	12.5	2-9	12.5	2-10	12.5	2-11	12.5	2-11
16-6	13.0	2-9	13.0	2-9	13.0	2-10	13.0	2-11	13.0	2-12
17-0	13.0	2-9	13.0	2-10	13.0	2-10	13.0	2-11	13.0	2-12
17-6	13.5	2-9	13.5	2-10	13.5	2-11	13.5	2-12	13.5	2-12
18-0	13.5	2-10	13.5	2-11	13.5	2-11	13.5	2-12	13.5	2-12
18-6	14.0	2-10	14.0	2-11	14.0	2-12	14.0	2-12	14.0	2-12
19-0	14.0	2-10	14.0	2-11	14.0	2-12	14.0	2-12	14.0	2-13
19-6	14.5	2-11	14.5	2-11	14.5	2-12	14.5	2-12	14.5	2-13
20-0	15.0	2-11	15.0	2-12	15.0	2-12	15.0	2-12	15.0	2-13
21-0	15.5	2-11	15.5	2-12	15.5	2-12	15.5	2-13	15.5	2-13
22-0	16.0	2-12	16.0	2-12	16.0	2-13	16.0	2-13	16.0	2-14
23-0	16.5	2-12	16.5	2-12	16.5	2-13	16.5	2-14	16.5	2-15
24-0	17.0	2-12	17.0	2-13	17.0	2-14	17.0	2-15	17.0	2-15
25-0	18.0	2-13	18.0	2-14	18.0	2-14	18.0	2-15	18.0	2-16
26-0	18.5	2-14	18.5	2-14	18.5	2-15	18.5	2-16	18.5	2-17
27-0	19.5	2-14	19.5	2-15	19.5	2-16	19.5	2-16	19.5	2-17
28-0	20.0	2-14	20.0	2-15	20.0	2-16	20.0	2-17	20.0	2-18
29-0	21.0	2-15	21.0	2-16	21.0	2-17	21.0	2-17	21.0	2-18
30-0	21.5	2-15	21.5	2-16	21.5	2-17	21.5	2-18	22.0	2-19



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.167		0.187		0.208		0.231		0.254	
C to C Beams	8'-6"		9'-0"		9'-6"		10'-0"		10'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	8.0	2-5	..	..	..	..	..	..	..	..
9-0	8.5	2-6	8.5	2-6	..	..	..	..	..	..
9-6	8.5	2-7	8.5	2-7	8.5	2-7	..	..	..	..
10-0	9.0	2-7	9.0	2-7	9.0	2-8	9.0	2-8	..	..
10-6	9.5	2-7	9.5	2-8	9.5	2-8	9.5	2-9	9.5	2-10
11-0	9.5	2-8	9.5	2-8	9.5	2-9	9.5	2-9	9.5	2-10
11-6	10.0	2-8	10.0	2-9	10.0	2-9	10.0	2-10	10.0	2-10
12-0	10.0	2-9	10.0	2-9	10.0	2-10	10.0	2-10	10.0	2-11
12-6	10.5	2-9	10.5	2-10	10.5	2-10	10.5	2-11	10.5	2-11
13-0	10.5	2-10	10.5	2-10	10.5	2-11	10.5	2-11	10.5	2-12
13-6	11.0	2-10	11.0	2-10	11.0	2-11	11.0	2-12	11.0	2-12
14-0	11.5	2-10	11.5	2-11	11.5	2-11	11.5	2-12	11.5	2-12
14-6	11.5	2-11	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-12
15-0	12.0	2-11	12.0	2-12	12.0	2-12	12.0	2-12	12.0	2-12
15-6	12.0	2-12	12.0	2-12	12.0	2-12	12.0	2-12	12.0	2-13
16-0	12.5	2-12	12.5	2-12	12.5	2-12	12.5	2-13	12.5	2-13
16-6	13.0	2-12	13.0	2-12	13.0	2-12	13.0	2-13	13.0	2-13
17-0	13.0	2-12	13.0	2-12	13.0	2-13	13.0	2-13	13.0	2-14
17-6	13.5	2-12	13.5	2-13	13.5	2-13	13.5	2-14	13.5	2-14
18-0	13.5	2-12	13.5	2-13	13.5	2-14	13.5	2-14	13.5	2-15
18-6	14.0	2-13	14.0	2-13	14.0	2-14	14.0	2-15	14.0	2-15
19-0	14.0	2-13	14.0	2-14	14.0	2-14	14.0	2-15	14.0	2-16
19-6	14.5	2-13	14.5	2-14	14.5	2-15	14.5	2-15	14.5	2-16
20-0	15.0	2-14	15.0	2-14	15.0	2-15	15.0	2-16	15.0	2-16
21-0	15.5	2-14	15.5	2-15	15.5	2-16	15.5	2-16	15.5	2-17
22-0	16.0	2-15	16.0	2-16	16.0	2-16	16.0	2-17	16.0	2-18
23-0	16.5	2-16	16.5	2-16	16.5	2-17	16.5	2-18	16.5	2-18
24-0	17.0	2-16	17.0	2-17	17.0	2-18	17.0	2-18	17.5	2-19
25-0	18.0	2-17	18.0	2-18	18.0	2-18	18.5	2-19	18.5	2-19
26-0	18.5	2-18	18.5	2-18	19.0	2-19	19.0	2-19	19.0	2-20
27-0	19.5	2-18	20.0	2-19	20.0	2-19	20.0	2-19	20.0	2-20
28-0	20.5	2-19	20.5	2-19	20.5	2-19	20.5	2-20	20.5	2-21
29-0	21.5	2-19	21.5	2-19	21.5	2-20	21.5	2-20	21.5	2-21
30-0	22.0	2-19	22.0	2-19	22.0	2-20	22.0	2-21	22.0	2-21

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.279		0.077		0.092		0.108	
C to C Beams	11'-0"		5'-6"		6'-0"		6'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..
8-0	..	..	7.0	2-3	7.0	2-3	7.0	2-3
8-6	..	..	7.0	2-3	7.0	2-3	7.0	2-4
9-0	..	..	7.5	2-3	7.5	2-4	7.5	2-4
9-6	..	..	7.5	2-4	7.5	2-4	8.5	2-5
10-0	..	..	8.0	2-4	8.0	2-4	9.0	2-5
10-6	..	..	8.5	2-4	9.5	2-5	9.5	2-6
11-0	9.5	2-10	8.5	2-4	9.5	2-5	9.5	2-6
11-6	10.0	2-11	10.0	2-5	10.0	2-6	10.0	2-7
12-0	10.0	2-11	10.0	2-6	10.0	2-6	10.0	2-7
12-6	10.5	2-12	10.5	2-6	10.5	2-7	10.5	2-8
13-0	10.5	2-12	10.5	2-7	10.5	2-7	10.5	2-8
13-6	11.0	2-12	11.0	2-7	11.0	2-8	11.0	2-8
14-0	11.5	2-12	11.5	2-7	11.5	2-8	11.5	2-9
14-6	11.5	2-13	11.5	2-8	11.5	2-8	11.5	2-9
15-0	12.0	2-13	12.0	2-8	12.0	2-9	12.0	2-9
15-6	12.0	2-14	12.0	2-8	12.0	2-9	12.0	2-10
16-0	12.5	2-14	12.5	2-8	12.5	2-9	12.5	2-10
16-6	13.0	2-14	13.0	2-9	13.0	2-10	13.0	2-10
17-0	13.0	2-15	13.0	2-9	13.0	2-10	13.0	2-11
17-6	13.5	2-15	13.5	2-10	13.5	2-10	13.5	2-11
18-0	13.5	2-15	13.5	2-10	13.5	2-11	13.5	2-12
18-6	14.0	2-16	14.0	2-10	14.0	2-11	14.0	2-12
19-0	14.0	2-16	14.0	2-11	14.0	2-11	14.0	2-12
19-6	14.5	2-17	14.5	2-11	14.5	2-12	14.5	2-12
20-0	15.0	2-17	15.0	2-11	15.0	2-12	15.0	2-12
21-0	15.5	2-18	15.5	2-12	15.5	2-12	15.5	2-12
22-0	16.0	2-18	16.0	2-12	16.0	2-12	16.0	2-13
23-0	17.0	2-19	16.5	2-12	16.5	2-13	16.5	2-14
24-0	17.5	2-19	17.0	2-12	17.0	2-13	17.0	2-14
25-0	18.5	2-19	18.0	2-13	18.0	2-14	18.0	2-15
26-0	19.0	2-20	18.5	2-14	18.5	2-15	18.5	2-16
27-0	20.0	2-21	19.5	2-14	19.5	2-15	19.5	2-16
28-0	20.5	2-21	20.0	2-15	20.0	2-16	20.0	2-17
29-0	21.5	2-22	21.0	2-15	21.0	2-16	21.0	2-17
30-0	22.0	2-22	21.5	2-15	21.5	2-16	21.5	2-17

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.125		0.144		0.163		0.184	
C to C Beams	7'-0"		7'-6"		8'-0"		8'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..
8-0	7.0	2-4	7.0	2-4	8.0	2-5	..	..
8-6	7.0	2-4	8.0	2-5	8.0	2-6	8.0	2-6
9-0	8.5	2-5	8.5	2-6	8.5	2-6	8.5	2-7
9-6	8.5	2-6	8.5	2-6	8.5	2-7	8.5	2-7
10-0	9.0	2-6	9.0	2-6	9.0	2-7	9.0	2-8
10-6	9.5	2-6	9.5	2-7	9.5	2-8	9.5	2-8
11-0	9.5	2-7	9.5	2-7	9.5	2-8	9.5	2-9
11-6	10.0	2-7	10.0	2-8	10.0	2-9	10.0	2-9
12-0	10.0	2-8	10.0	2-8	10.0	2-9	10.0	2-10
12-6	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-10
13-0	10.5	2-9	10.5	2-9	10.5	2-10	10.5	2-11
13-6	11.0	2-9	11.0	2-10	11.0	2-10	11.0	2-11
14-0	11.5	2-9	11.5	2-10	11.5	2-11	11.5	2-11
14-6	11.5	2-10	11.5	2-10	11.5	2-11	11.5	2-12
15-0	12.0	2-10	12.0	2-11	12.0	2-12	12.0	2-12
15-6	12.0	2-11	12.0	2-11	12.0	2-12	12.0	2-12
16-0	12.5	2-11	12.5	2-12	12.5	2-12	12.5	2-12
16-6	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-12
17-0	13.0	2-12	13.0	2-12	13.0	2-12	13.0	2-13
17-6	13.5	2-12	13.5	2-12	13.5	2-12	13.5	2-13
18-0	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-14
18-6	14.0	2-12	14.0	2-13	14.0	2-13	14.0	2-14
19-0	14.0	2-12	14.0	2-13	14.0	2-14	14.0	2-14
19-6	14.5	2-12	14.5	2-13	14.5	2-14	14.5	2-14
20-0	15.0	2-13	15.0	2-13	15.0	2-14	15.0	2-15
21-0	15.5	2-13	15.5	2-14	15.5	2-15	15.5	2-15
22-0	16.0	2-14	16.0	2-15	16.0	2-15	16.0	2-16
23-0	16.5	2-14	16.5	2-15	16.5	2-16	16.5	2-17
24-0	17.0	2-15	17.0	2-16	17.0	2-17	17.0	2-18
25-0	18.0	2-16	18.0	2-17	18.0	2-17	18.0	2-18
26-0	18.5	2-17	18.5	2-17	18.5	2-18	19.0	2-19
27-0	19.5	2-17	19.5	2-18	20.0	2-19	20.0	2-19
28-0	20.0	2-17	20.0	2-18	20.5	2-19	20.5	2-19
29-0	21.0	2-18	21.5	2-19	21.5	2-19	21.5	2-19
30-0	21.5	2-18	22.0	2-19	22.0	2-19	22.0	2-20

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.207		0.230		0.255		0.281	
C to C Beams	9'-0"		9'-6"		10'-0"		10'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..
9-0	8.5	2-7	..	..	..	..	..	..
9-6	8.5	2-8	8.5	2-8	..	..	..	..
10-0	9.0	2-8	9.0	2-9	9.0	2-9	..	..
10-6	9.5	2-9	9.5	2-9	9.5	2-10	9.5	2-10
11-0	9.5	2-9	9.5	2-10	9.5	2-10	9.5	2-11
11-6	10.0	2-10	10.0	2-10	10.0	2-11	10.0	2-11
12-0	10.0	2-10	10.0	2-11	10.0	2-11	10.0	2-12
12-6	10.5	2-11	10.5	2-11	10.5	2-12	10.5	2-12
13-0	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-12
13-6	11.0	2-11	11.0	2-12	11.0	2-12	11.0	2-12
14-0	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-13
14-6	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-13
15-0	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-14
15-6	12.0	2-12	12.0	2-13	12.0	2-13	12.0	2-14
16-0	12.5	2-12	12.5	2-13	12.5	2-14	12.5	2-14
16-6	13.0	2-13	13.0	2-14	13.0	2-14	13.0	2-15
17-0	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-15
17-6	13.5	2-14	13.5	2-14	13.5	2-15	13.5	2-16
18-0	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-16
18-6	14.0	2-15	14.0	2-15	14.0	2-16	14.0	2-17
19-0	14.0	2-15	14.0	2-16	14.0	2-17	14.0	2-17
19-6	14.5	2-15	14.5	2-16	14.5	2-17	14.5	2-17
20-0	15.0	2-16	15.0	2-16	15.0	2-17	15.0	2-18
21-0	15.5	2-16	15.5	2-17	15.5	2-18	15.5	2-18
22-0	16.0	2-17	16.0	2-18	16.0	2-18	16.5	2-19
23-0	16.5	2-18	16.5	2-18	17.0	2-19	17.0	2-19
24-0	17.0	2-18	17.5	2-19	17.5	2-19	17.5	2-20
25-0	18.5	2-19	18.5	2-19	18.5	2-20	18.5	2-20
26-0	19.0	2-19	19.0	2-20	19.0	2-20	19.0	2-21
27-0	20.0	2-19	20.0	2-20	20.0	2-21	20.0	2-21
28-0	20.5	2-20	20.5	2-21	20.5	2-21	20.5	2-22
29-0	21.5	2-20	21.5	2-21	21.5	2-22	21.5	2-22
30-0	22.0	2-21	22.0	2-22	22.0	2-22	22.0	2-23

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.064		0.079		0.096		0.114		0.134	
C to C Beams	4'-6"		5'-0"		5'-6"		6'-0"		6'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	1-4	6.5	1-4	6.5	2-1	6.5	2-2	.	.
6-6	6.5	1-4	6.5	2-2	6.5	2-2	6.5	2-2	6.5	2-3
7-0	6.5	2-2	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-3
7-6	6.5	2-2	6.5	2-3	6.5	2-3	6.5	2-4	6.5	2-4
8-0	7.0	2-3	7.0	2-3	7.0	2-4	7.0	2-4	8.0	2-5
8-6	7.0	2-3	7.0	2-4	7.0	2-4	8.0	2-5	8.0	2-6
9-0	7.5	2-4	7.5	2-4	8.5	2-5	8.5	2-6	8.5	2-6
9-6	7.5	2-4	7.5	2-4	8.5	2-6	8.5	2-6	8.5	2-7
10-0	8.0	2-4	9.0	2-5	9.0	2-6	9.0	2-6	9.0	2-7
10-6	8.5	2-4	9.5	2-6	9.5	2-6	9.5	2-7	9.5	2-8
11-0	8.5	2-4	9.5	2-6	9.5	2-7	9.5	2-7	9.5	2-8
11-6	10.0	2-5	10.0	2-6	10.0	2-7	10.0	2-8	10.0	2-9
12-0	10.0	2-6	10.0	2-7	10.0	2-8	10.0	2-9	10.0	2-9
12-6	10.5	2-7	10.5	2-7	10.5	2-8	10.5	2-9	10.5	2-10
13-0	10.5	2-7	10.5	2-8	10.5	2-9	10.5	2-9	10.5	2-10
13-6	11.0	2-7	11.0	2-8	11.0	2-9	11.0	2-10	11.0	2-10
14-0	11.5	2-8	11.5	2-8	11.5	2-9	11.5	2-10	11.5	2-11
14-6	11.5	2-8	11.5	2-9	11.5	2-10	11.5	2-11	11.5	2-11
15-0	12.0	2-8	12.0	2-9	12.0	2-10	12.0	2-11	12.0	2-12
15-6	12.0	2-9	12.0	2-10	12.0	2-10	12.0	2-11	12.0	2-12
16-0	12.5	2-9	12.5	2-10	12.5	2-11	12.5	2-11	12.5	2-12
16-6	13.0	2-9	13.0	2-10	13.0	2-11	13.0	2-12	13.0	2-12
17-0	13.0	2-9	13.0	2-10	13.0	2-11	13.0	2-12	13.0	2-12
17-6	13.5	2-10	13.5	2-11	13.5	2-12	13.5	2-12	13.5	2-13
18-0	13.5	2-10	13.5	2-11	13.5	2-12	13.5	2-12	13.5	2-13
18-6	14.0	2-11	14.0	2-12	14.0	2-12	14.0	2-12	14.0	2-13
19-0	14.0	2-11	14.0	2-12	14.0	2-12	14.0	2-13	14.0	2-14
19-6	14.5	2-11	14.5	2-12	14.5	2-12	14.5	2-13	14.5	2-14
20-0	15.0	2-11	15.0	2-12	15.0	2-12	15.0	2-13	15.0	2-14
21-0	15.5	2-12	15.5	2-12	15.5	2-13	15.5	2-14	15.5	2-15
22-0	16.0	2-12	16.0	2-13	16.0	2-14	16.0	2-15	16.0	2-16
23-0	16.5	2-12	16.5	2-13	16.5	2-14	16.5	2-15	16.5	2-16
24-0	17.0	2-13	17.0	2-14	17.0	2-15	17.0	2-16	17.0	2-17
25-0	18.0	2-13	18.0	2-15	18.0	2-16	18.0	2-17	18.0	2-18
26-0	18.5	2-14	18.5	2-15	18.5	2-16	18.5	2-17	18.5	2-18
27-0	19.5	2-14	19.5	2-16	19.5	2-17	19.5	2-18	20.0	2-19
28-0	20.0	2-15	20.0	2-16	20.0	2-17	20.0	2-18	20.5	2-19
29-0	21.0	2-15	21.0	2-16	21.0	2-18	21.5	2-19	21.5	2-19
30-0	21.5	2-16	21.5	2-17	21.5	2-18	22.0	2-19	22.0	2-19

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.155		0.178		0.203		0.229		0.256	
C to C Beams	7'-0"		7'-6"		8'-0"		8'-6"		9'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	6.5	2-4	..	..	..	..	..	..	..	..
7-6	7.5	2-5	7.5	2-6	..	..	..	..	..	..
8-0	8.0	2-6	8.0	2-6	8.0	2-7	..	..	..	..
8-6	8.0	2-6	8.0	2-7	8.0	2-8	8.0	2-8	..	..
9-0	8.5	2-7	8.5	2-8	8.5	2-8	8.5	2-9	8.5	2-9
9-6	8.5	2-8	8.5	2-8	8.5	2-9	8.5	2-10	8.5	2-10
10-0	9.0	2-8	9.0	2-8	9.0	2-9	9.0	2-10	9.0	2-10
10-6	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-10	9.5	2-11
11-0	9.5	2-9	9.5	2-10	9.5	2-10	9.5	2-11	9.5	2-11
11-6	10.0	2-9	10.0	2-10	10.0	2-11	10.0	2-11	10.0	2-12
12-0	10.0	2-10	10.0	2-11	10.0	2-11	10.0	2-12	10.0	2-12
12-6	10.5	2-11	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-12
13-0	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-12	10.5	2-13
13-6	11.0	2-11	11.0	2-12	11.0	2-12	11.0	2-12	11.0	2-13
14-0	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-14
14-6	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-13	11.5	2-14
15-0	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-14	12.0	2-15
15-6	12.0	2-12	12.0	2-13	12.0	2-14	12.0	2-14	12.0	2-15
16-0	12.5	2-12	12.5	2-13	12.5	2-14	12.5	2-14	12.5	2-15
16-6	13.0	2-13	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-16
17-0	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-15	13.0	2-16
17-6	13.5	2-13	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-17
18-0	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-16	13.5	2-17
18-6	14.0	2-14	14.0	2-15	14.0	2-16	14.0	2-17	14.0	2-18
19-0	14.0	2-15	14.0	2-16	14.0	2-16	14.0	2-17	14.0	2-18
19-6	14.5	2-15	14.5	2-16	14.5	2-17	14.5	2-17	14.5	2-18
20-0	15.0	2-15	15.0	2-16	15.0	2-17	15.0	2-18	15.5	2-19
21-0	15.5	2-16	15.5	2-17	15.5	2-18	15.5	2-18	16.0	2-19
22-0	16.0	2-17	16.0	2-18	16.5	2-19	16.5	2-19	16.5	2-19
23-0	16.5	2-17	16.5	2-18	17.0	2-19	17.0	2-19	17.0	2-20
24-0	17.0	2-18	17.5	2-19	17.5	2-19	17.5	2-20	17.5	2-21
25-0	18.5	2-19	18.5	2-19	18.5	2-20	18.5	2-20	18.5	2-21
26-0	19.0	2-19	19.0	2-19	19.0	2-20	19.0	2-21	19.0	2-22
27-0	20.0	2-19	20.0	2-20	20.0	2-21	20.0	2-22	20.0	2-22
28-0	20.5	2-19	20.5	2-20	20.5	2-21	20.5	2-22	20.5	2-23
29-0	21.5	2-20	21.5	2-21	21.5	2-22	21.5	2-23	21.5	2-24
30-0	22.0	2-20	22.0	2-21	22.0	2-22	22.0	2-23	22.0	2-24

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

100 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.286		0.316		0.077		0.094		0.114	
C to C Beams	9'-6"		10'-0"		4'-6"		5'-0"		5'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	6.5	2-1	6.5	2-2	6.5	2-2
6-6	..	..	..	..	6.5	2-2	6.5	2-2	6.5	2-3
7-0	..	..	..	..	6.5	2-3	6.5	2-3	6.5	2-3
7-6	..	..	..	..	6.5	2-3	6.5	2-4	6.5	2-4
8-0	..	..	..	..	7.0	2-4	7.0	2-4	8.0	2-5
8-6	..	..	..	..	7.0	2-4	8.0	2-5	8.0	2-6
9-0	..	..	..	..	7.5	2-4	8.5	2-6	8.5	2-6
9-6	8.5	2-11	..	..	8.5	2-5	8.5	2-6	8.5	2-7
10-0	9.0	2-11	9.0	2-11	9.0	2-5	9.0	2-6	9.0	2-8
10-6	9.5	2-11	9.5	2-12	9.5	2-6	9.5	2-7	9.5	2-8
11-0	9.5	2-12	9.5	2-12	9.5	2-6	9.5	2-7	9.5	2-8
11-6	10.0	2-12	10.0	2-12	10.0	2-7	10.0	2-8	10.0	2-9
12-0	10.0	2-12	10.0	2-13	10.0	2-7	10.0	2-8	10.0	2-9
12-6	10.5	2-13	10.5	2-14	10.5	2-8	10.5	2-9	10.5	2-10
13-0	10.5	2-13	10.5	2-14	10.5	2-8	10.5	2-9	10.5	2-10
13-6	11.0	2-14	11.0	2-14	11.0	2-8	11.0	2-9	11.0	2-10
14-0	11.5	2-14	11.5	2-15	11.5	2-9	11.5	2-10	11.5	2-11
14-6	11.5	2-15	11.5	2-16	11.5	2-9	11.5	2-11	11.5	2-11
15-0	12.0	2-15	12.0	2-16	12.0	2-10	12.0	2-11	12.0	2-12
15-6	12.0	2-16	12.0	2-16	12.0	2-10	12.0	2-11	12.0	2-12
16-0	12.5	2-16	12.5	2-17	12.5	2-10	12.5	2-11	12.5	2-12
16-6	13.0	2-16	13.0	2-17	13.0	2-11	13.0	2-12	13.0	2-12
17-0	13.0	2-17	13.0	2-18	13.0	2-11	13.0	2-12	13.0	2-12
17-6	13.5	2-17	13.5	2-18	13.5	2-11	13.5	2-12	13.5	2-13
18-0	13.5	2-18	14.0	2-19	13.5	2-12	13.5	2-12	13.5	2-13
18-6	14.0	2-18	14.5	2-19	14.0	2-12	14.0	2-12	14.0	2-13
19-0	14.5	2-19	14.5	2-19	14.0	2-12	14.0	2-13	14.0	2-14
19-6	15.0	2-19	15.0	2-19	14.5	2-12	14.5	2-13	14.5	2-14
20-0	15.5	2-19	15.5	2-19	15.0	2-12	15.0	2-13	15.0	2-14
21-0	16.0	2-19	16.0	2-20	15.5	2-13	15.5	2-14	15.5	2-15
22-0	16.5	2-20	16.5	2-21	16.0	2-13	16.0	2-15	16.0	2-16
23-0	17.0	2-21	17.0	2-22	16.5	2-14	16.5	2-15	16.5	2-16
24-0	17.5	2-22	17.5	2-22	17.0	2-15	17.0	2-16	17.0	2-17
25-0	18.5	2-22	18.5	2-23	18.0	2-15	18.0	2-16	18.0	2-18
26-0	19.0	2-23	19.0	2-24	18.5	2-16	18.5	2-17	18.5	2-18
27-0	20.0	2-23	20.0	2-24	19.5	2-16	19.5	2-18	20.0	2-19
28-0	20.5	2-24	20.5	2-25	20.0	2-17	20.0	2-18	20.5	2-19
29-0	21.5	2-24	21.5	2-25	21.0	2-17	21.0	2-18	21.5	2-19
30-0	22.0	2-25	22.0	2-26	21.5	2-18	22.0	2-19	22.0	2-19

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

100 Lbs.

Area of Steel per Linear Foot of Slab

Sq. In.	0.136		0.160		0.185		0.213		0.242	
C to C Beams	6'-0"		6'-6"		7'-0"		7'-6"		8'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-3	..	..	..	..	..	..	..	..
6-6	6.5	2-3	6.5	2-4	..	..	..	..	..	..
7-0	6.5	2-4	6.5	2-4	7.5	2-5	..	..	..	..
7-6	7.5	2-5	7.5	2-6	7.5	2-7	7.5	2-7	..	..
8-0	8.0	2-6	8.0	2-7	8.0	2-7	8.0	2-8	8.0	2-9
8-6	8.0	2-7	8.0	2-7	8.0	2-8	8.0	2-9	8.0	2-9
9-0	8.5	2-7	8.5	2-8	8.5	2-9	8.5	2-9	8.5	2-10
9-6	8.5	2-8	8.5	2-8	8.5	2-9	8.5	2-10	8.5	2-11
10-0	9.0	2-8	9.0	2-9	9.0	2-9	9.0	2-10	9.0	2-11
10-6	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-11	9.5	2-11
11-0	9.5	2-9	9.5	2-10	9.5	2-11	9.5	2-11	9.5	2-12
11-6	10.0	2-10	10.0	2-10	10.0	2-11	10.0	2-12	10.0	2-12
12-0	10.0	2-10	10.0	2-11	10.0	2-12	10.0	2-12	10.0	2-12
12-6	10.5	2-11	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-13
13-0	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-13
13-6	11.0	2-11	11.0	2-12	11.0	2-12	11.0	2-13	11.0	2-14
14-0	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-13	11.5	2-14
14-6	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-14	11.5	2-15
15-0	12.0	2-12	12.0	2-13	12.0	2-13	12.0	2-14	12.0	2-15
15-6	12.0	2-12	12.0	2-13	12.0	2-14	12.0	2-15	12.0	2-16
16-0	12.5	2-12	12.5	2-13	12.5	2-14	12.5	2-15	12.5	2-16
16-6	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-16	13.0	2-16
17-0	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-16	13.0	2-17
17-6	13.5	2-14	13.5	2-15	13.5	2-15	13.5	2-16	13.5	2-17
18-0	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-17	13.5	2-18
18-6	14.0	2-15	14.0	2-16	14.0	2-17	14.0	2-18	14.5	2-19
19-0	14.0	2-15	14.0	2-16	14.0	2-17	14.0	2-18	14.5	2-19
19-6	14.5	2-15	14.5	2-16	14.5	2-17	14.5	2-18	15.0	2-19
20-0	15.0	2-15	15.0	2-16	15.0	2-17	15.0	2-18	15.5	2-19
21-0	15.5	2-16	15.5	2-17	15.5	2-18	16.0	2-19	16.0	2-19
22-0	16.0	2-17	16.0	2-18	16.5	2-19	16.5	2-19	16.5	2-20
23-0	16.5	2-18	17.0	2-19	17.0	2-19	17.0	2-20	17.0	2-21
24-0	17.0	2-18	17.5	2-19	17.5	2-20	17.5	2-21	17.5	2-22
25-0	18.5	2-19	18.5	2-19	18.5	2-20	18.5	2-21	18.5	2-22
26-0	19.0	2-19	19.0	2-20	19.0	2-21	19.0	2-22	19.0	2-23
27-0	20.0	2-19	20.0	2-20	20.0	2-21	20.0	2-22	20.0	2-23
28-0	20.5	2-20	20.5	2-21	20.5	2-22	20.5	2-23	20.5	2-24
29-0	21.5	2-20	21.5	2-21	21.5	2-22	21.5	2-23	21.5	2-24
30-0	22.0	2-21	22.0	2-22	22.0	2-23	22.0	2-24	22.0	2-25



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

100 Lbs.

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.273		0.306		0.341		0.070		0.089	
C to C Beams	8'-6"		9'-0"		9'-6"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	6.5	2-1	6.5	2-2
6-6	..	..	..	..	..	..	6.5	2-2	6.5	2-3
7-0	..	..	..	..	..	..	6.5	2-3	6.5	2-3
7-6	..	..	..	..	..	..	6.5	2-3	6.5	2-4
8-0	..	..	..	..	..	..	7.0	2-4	7.0	2-4
8-6	8.0	2-10	..	..	..	..	7.0	2-4	8.0	2-6
9-0	8.5	2-11	8.5	2-11	..	..	8.5	2-5	8.5	2-6
9-6	8.5	2-11	8.5	2-12	8.5	2-12	8.5	2-6	8.5	2-7
10-0	9.0	2-11	9.0	2-12	9.0	2-12	9.0	2-6	9.0	2-7
10-6	9.5	2-12	9.5	2-12	9.5	2-12	9.5	2-6	9.5	2-7
11-0	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-7	9.5	2-8
11-6	10.0	2-12	10.0	2-13	10.0	2-14	10.0	2-7	10.0	2-8
12-0	10.0	2-13	10.0	2-14	10.0	2-14	10.0	2-8	10.0	2-9
12-6	10.5	2-14	10.5	2-14	10.5	2-15	10.5	2-8	10.5	2-9
13-0	10.5	2-14	10.5	2-15	10.5	2-16	10.5	2-9	10.5	2-10
13-6	11.0	2-14	11.0	2-15	11.0	2-16	11.0	2-9	11.0	2-10
14-0	11.5	2-15	11.5	2-16	11.5	2-16	11.5	2-9	11.5	2-10
14-6	11.5	2-16	11.5	2-16	11.5	2-17	11.5	2-10	11.5	2-11
15-0	12.0	2-16	12.0	2-17	12.0	2-18	12.0	2-10	12.0	2-11
15-6	12.0	2-17	12.0	2-17	12.0	2-18	12.0	2-11	12.0	2-12
16-0	12.5	2-17	12.5	2-18	12.5	2-18	12.5	2-11	12.5	2-12
16-6	13.0	2-17	13.0	2-18	13.5	2-19	13.0	2-11	13.0	2-12
17-0	13.0	2-18	13.5	2-19	13.5	2-19	13.0	2-11	13.0	2-12
17-6	13.5	2-18	14.0	2-19	14.0	2-19	13.5	2-12	13.5	2-12
18-0	14.0	2-19	14.0	2-19	14.0	2-19	13.5	2-12	13.5	2-13
18-6	14.5	2-19	14.5	2-19	14.5	2-20	14.0	2-12	14.0	2-13
19-0	14.5	2-19	14.5	2-20	14.5	2-20	14.0	2-12	14.0	2-13
19-6	15.0	2-19	15.0	2-20	15.0	2-21	14.5	2-12	14.5	2-13
20-0	15.5	2-19	15.5	2-20	15.5	2-21	15.0	2-12	15.0	2-14
21-0	16.0	2-20	16.0	2-21	16.0	2-22	15.5	2-13	15.5	2-14
22-0	16.5	2-21	16.5	2-22	16.5	2-23	16.0	2-14	16.0	2-15
23-0	17.0	2-22	17.0	2-23	17.0	2-24	16.5	2-14	16.5	2-16
24-0	17.5	2-23	17.5	2-24	17.5	2-25	17.0	2-15	17.0	2-17
25-0	18.5	2-23	18.5	2-24	18.5	2-25	18.0	2-16	18.0	2-17
26-0	19.0	2-24	19.0	2-25	19.0	2-26	18.5	2-16	18.5	2-18
27-0	20.0	2-24	20.0	2-25	20.0	2-26	19.5	2-17	19.5	2-18
28-0	20.5	2-25	20.5	2-26	20.5	2-26	20.0	2-17	20.5	2-19
29-0	21.5	2-25	21.5	2-26	21.5	2-26	21.0	2-18	21.5	2-19
30-0	22.0	2-26	22.0	2-26	22.0	2-27	21.5	2-18	22.0	2-19

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.110		0.133		0.158		0.185		0.215	
C to C Beams	5'-0"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-2	6.5	2-3	6.5	2-3	. .	. .	. .	. .
6-6	6.5	2-3	6.5	2-4	6.5	2-4	6.5	2-4	. .	. .
7-0	6.5	2-4	6.5	2-4	7.5	2-5	7.5	2-6	7.5	2-7
7-6	7.5	2-5	7.5	2-6	7.5	2-7	7.5	2-7	7.5	2-8
8-0	8.0	2-6	8.0	2-7	8.0	2-7	8.0	2-8	8.0	2-9
8-6	8.0	2-6	8.0	2-7	8.0	2-8	8.0	2-9	8.0	2-9
9-0	8.5	2-7	8.5	2-8	8.5	2-9	8.5	2-9	8.5	2-10
9-6	8.5	2-8	8.5	2-8	8.5	2-9	8.5	2-10	8.5	2-11
10-0	9.0	2-8	9.0	2-9	9.0	2-9	9.0	2-10	9.0	2-11
10-6	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-11	9.5	2-12
11-0	9.5	2-9	9.5	2-10	9.5	2-11	9.5	2-11	9.5	2-12
11-6	10.0	2-9	10.0	2-10	10.0	2-11	10.0	2-12	10.0	2-12
12-0	10.0	2-10	10.0	2-10	10.0	2-12	10.0	2-12	10.0	2-13
12-6	10.5	2-10	10.5	2-10	10.5	2-12	10.5	2-12	10.5	2-13
13-0	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-14
13-6	11.0	2-11	11.0	2-12	11.0	2-12	11.0	2-13	11.0	2-14
14-0	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-14	11.5	2-14
14-6	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-14	11.5	2-15
15-0	12.0	2-12	12.0	2-13	12.0	2-14	12.0	2-15	12.0	2-15
15-6	12.0	2-12	12.0	2-13	12.0	2-14	12.0	2-15	12.0	2-16
16-0	12.5	2-12	12.5	2-13	12.5	2-14	12.5	2-15	12.5	2-16
16-6	13.0	2-12	13.0	2-14	13.0	2-15	13.0	2-16	13.0	2-17
17-0	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-16	13.0	2-17
17-6	13.5	2-13	13.5	2-14	13.5	2-16	13.5	2-17	13.5	2-18
18-0	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-17	13.5	2-18
18-6	14.0	2-14	14.0	2-15	14.0	2-17	14.0	2-18	14.5	2-19
19-0	14.0	2-15	14.0	2-16	14.0	2-17	14.0	2-18	14.5	2-19
19-6	14.5	2-15	14.5	2-16	14.5	2-17	14.5	2-18	15.0	2-19
20-0	15.0	2-15	15.0	2-16	15.0	2-18	15.5	2-19	15.5	2-19
21-0	15.5	2-16	15.5	2-17	15.5	2-18	16.0	2-19	16.0	2-19
22-0	16.0	2-17	16.0	2-18	16.0	2-18	16.5	2-19	16.5	2-20
23-0	16.5	2-17	17.0	2-19	17.0	2-19	17.0	2-20	17.0	2-20
24-0	17.0	2-17	17.5	2-19	17.5	2-20	17.5	2-21	17.5	2-21
25-0	18.5	2-19	18.5	2-19	18.5	2-20	18.5	2-21	18.5	2-22
26-0	19.0	2-19	19.0	2-20	19.0	2-21	19.0	2-22	19.0	2-22
27-0	20.0	2-19	20.0	2-20	20.0	2-21	20.0	2-22	20.0	2-23
28-0	20.5	2-19	20.5	2-21	20.5	2-22	20.5	2-23	20.5	2-23
29-0	21.5	2-20	21.5	2-21	21.5	2-22	21.5	2-24	21.5	2-24
30-0	22.0	2-20	22.0	2-22	22.0	2-23	22.0	2-24	22.0	2-25

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

125 Lbs.

150 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.247		0.281		0.317		0.080		0.101	
C to C Beams	7'-6"		8'-0"		8'-6"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	6.5	2-2	6.5	2-2
6-6	. .	. .	. .	. .	. .	. .	6.5	2-3	6.5	2-3
7-0	. .	. .	. .	. .	. .	. .	6.5	2-3	6.5	2-4
7-6	7.5	2-9	. .	. .	. .	. .	6.5	2-4	7.5	2-5
8-0	8.0	2-9	8.0	2-10	. .	. .	7.0	2-4	8.0	2-6
8-6	8.0	2-10	8.0	2-11	8.0	2-11	8.0	2-6	8.0	2-6
9-0	8.5	2-11	8.5	2-12	8.5	2-12	8.5	2-6	8.5	2-7
9-6	8.5	2-12	8.5	2-12	8.5	2-12	8.5	2-7	8.5	2-8
10-0	9.0	2-12	9.0	2-12	9.0	2-12	9.0	2-7	9.0	2-8
10-6	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-7	9.5	2-9
11-0	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-8	9.5	2-9
11-6	10.0	2-13	10.0	2-13	10.0	2-14	10.0	2-8	10.0	2-10
12-0	10.0	2-13	10.0	2-14	10.0	2-15	10.0	2-9	10.0	2-10
12-6	10.5	2-14	10.5	2-15	10.5	2-16	10.5	2-9	10.5	2-11
13-0	10.5	2-15	10.5	2-15	10.5	2-16	10.5	2-10	10.5	2-11
13-6	11.0	2-15	11.0	2-16	11.0	2-16	11.0	2-10	11.0	2-11
14-0	11.5	2-15	11.5	2-16	11.5	2-17	11.5	2-10	11.5	2-12
14-6	11.5	2-16	11.5	2-17	11.5	2-18	11.5	2-11	11.5	2-12
15-0	12.0	2-16	12.0	2-17	12.0	2-18	12.0	2-11	12.0	2-12
15-6	12.0	2-17	12.0	2-18	12.5	2-19	12.0	2-12	12.0	2-12
16-0	12.5	2-17	12.5	2-18	13.0	2-19	12.5	2-12	12.5	2-12
16-6	13.0	2-18	13.5	2-19	13.5	2-19	13.0	2-12	13.0	2-13
17-0	13.0	2-18	13.5	2-19	13.5	2-19	13.0	2-12	13.0	2-13
17-6	14.0	2-19	14.0	2-19	14.0	2-19	13.5	2-12	13.5	2-13
18-0	14.0	2-19	14.0	2-19	14.0	2-20	13.5	2-13	13.5	2-14
18-6	14.5	2-19	14.5	2-20	14.5	2-21	14.0	2-13	14.0	2-14
19-0	14.5	2-19	14.5	2-20	14.5	2-21	14.0	2-13	14.0	2-15
19-6	15.0	2-19	15.0	2-20	15.0	2-21	14.5	2-14	14.5	2-15
20-0	15.5	2-20	15.5	2-21	15.5	2-22	15.0	2-14	15.0	2-15
21-0	16.0	2-20	16.0	2-22	16.0	2-23	15.5	2-14	15.5	2-16
22-0	16.5	2-21	16.5	2-23	16.5	2-24	16.0	2-15	16.0	2-17
23-0	17.0	2-22	17.0	2-23	17.0	2-24	16.5	2-16	16.5	2-17
24-0	17.5	2-23	17.5	2-24	17.5	2-25	17.0	2-16	17.0	2-18
25-0	18.5	2-24	18.5	2-25	18.5	2-26	18.0	2-17	18.5	2-19
26-0	19.0	2-25	19.0	2-26	19.0	2-26	18.5	2-18	19.0	2-19
27-0	20.0	2-25	20.0	2-26	20.0	2-26	19.5	2-18	20.0	2-19
28-0	20.5	2-26	20.5	2-26	20.5	2-27	20.0	2-19	20.5	2-20
29-0	21.5	2-26	21.5	2-26	21.5	2-27	21.5	2-19	21.5	2-20
30-0	22.0	2-26	22.0	2-27	22.0	2-28	22.0	2-19	22.0	2-20

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

150 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.125		0.151		0.180		0.211		0.245	
C to C Beams	5'-0"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-3	6.5	2-3	6.5	2-4	.	.	.	.
6-6	6.5	2-4	6.5	2-4	7.5	2-5	7.5	2-6	.	.
7-0	6.5	2-4	7.5	2-6	7.5	2-6	7.5	2-7	7.5	2-8
7-6	7.5	2-6	7.5	2-7	7.5	2-8	7.5	2-8	7.5	2-9
8-0	8.0	2-7	8.0	2-8	8.0	2-8	8.0	2-9	8.0	2-10
8-6	8.0	2-7	8.0	2-8	8.0	2-9	8.0	2-10	8.0	2-11
9-0	8.5	2-8	8.5	2-9	8.5	2-10	8.5	2-11	8.5	2-12
9-6	8.5	2-9	8.5	2-10	8.5	2-11	8.5	2-11	8.5	2-12
10-0	9.0	2-9	9.0	2-10	9.0	2-11	9.0	2-12	9.0	2-12
10-6	9.5	2-10	9.5	2-11	9.5	2-11	9.5	2-12	9.5	2-12
11-0	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-13
11-6	10.0	2-11	10.0	2-12	10.0	2-12	10.0	2-12	10.0	2-13
12-0	10.0	2-11	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-14
12-6	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-14	10.5	2-15
13-0	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-14	10.5	2-15
13-6	11.0	2-12	11.0	2-12	11.0	2-13	11.0	2-15	11.0	2-15
14-0	11.5	2-12	11.5	2-13	11.5	2-14	11.5	2-15	11.5	2-16
14-6	11.5	2-13	11.5	2-14	11.5	2-15	11.5	2-16	11.5	2-17
15-0	12.0	2-13	12.0	2-14	12.0	2-15	12.0	2-16	12.0	2-17
15-6	12.0	2-13	12.0	2-15	12.0	2-16	12.0	2-17	12.0	2-18
16-0	12.5	2-13	12.5	2-15	12.5	2-16	12.5	2-17	12.5	2-18
16-6	13.0	2-14	13.0	2-15	13.0	2-16	13.0	2-17	13.0	2-18
17-0	13.0	2-14	13.0	2-16	13.0	2-17	13.0	2-18	13.5	2-19
17-6	13.5	2-15	13.5	2-16	13.5	2-17	13.5	2-18	14.0	2-19
18-0	13.5	2-15	13.5	2-17	13.5	2-18	14.0	2-19	14.0	2-19
18-6	14.0	2-16	14.0	2-17	14.0	2-18	14.5	2-19	14.5	2-20
19-0	14.0	2-16	14.0	2-18	14.5	2-19	14.5	2-19	14.5	2-20
19-6	14.5	2-16	14.5	2-18	15.0	2-19	15.0	2-19	15.0	2-20
20-0	15.0	2-17	15.0	2-18	15.5	2-19	15.5	2-20	15.5	2-21
21-0	15.5	2-17	16.0	2-19	16.0	2-19	16.0	2-20	16.0	2-21
22-0	16.0	2-18	16.5	2-19	16.5	2-20	16.5	2-21	16.5	2-22
23-0	17.0	2-19	17.0	2-19	17.0	2-21	17.0	2-22	17.0	2-23
24-0	17.5	2-19	17.5	2-20	17.5	2-22	17.5	2-23	17.5	2-24
25-0	18.5	2-19	18.5	2-21	18.5	2-22	18.5	2-23	18.5	2-25
26-0	19.0	2-20	19.0	2-22	19.0	2-23	19.0	2-24	19.0	2-26
27-0	20.0	2-20	20.0	2-22	20.0	2-23	20.0	2-25	20.0	2-26
28-0	20.5	2-21	20.5	2-23	20.5	2-24	20.5	2-25	20.5	2-26
29-0	21.5	2-21	21.5	2-23	21.5	2-24	21.5	2-26	21.5	2-26
30-0	22.0	2-22	22.0	2-24	22.0	2-25	22.0	2-26	22.0	2-27

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

150 Lbs.

200 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.282		0.330		0.076		0.100		0.126	
C to C Beams	7'-6"		8'-0"		8'-6"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	6.5	2-2	6.5	2-3	6.5	2-3
6-6	..	..	..	..	6.5	2-3	6.5	2-4	6.5	2-4
7-0	..	..	..	..	6.5	2-4	6.5	2-4	7.5	2-6
7-6	7.5	2-10	..	..	7.5	2-5	7.5	2-6	7.5	2-7
8-0	8.0	2-11	8.0	2-11	8.0	2-6	8.0	2-7	8.0	2-8
8-6	8.0	2-12	8.0	2-12	8.0	2-6	8.0	2-7	8.0	2-8
9-0	8.5	2-12	8.5	2-12	8.5	2-7	8.5	2-8	8.5	2-9
9-6	8.5	2-12	9.0	2-13	8.5	2-7	8.5	2-9	8.5	2-10
10-0	9.0	2-12	9.0	2-13	9.0	2-8	9.0	2-9	9.0	2-10
10-6	9.5	2-13	9.5	2-14	9.5	2-8	9.5	2-9	9.5	2-11
11-0	9.5	2-14	9.5	2-14	9.5	2-9	9.5	2-10	9.5	2-11
11-6	10.0	2-14	10.0	2-15	10.0	2-9	10.0	2-11	10.0	2-12
12-0	10.0	2-15	10.5	2-16	10.0	2-10	10.0	2-11	10.0	2-12
12-6	10.5	2-16	10.5	2-16	10.5	2-10	10.5	2-12	10.5	2-12
13-0	10.5	2-16	11.0	2-17	10.5	2-11	10.5	2-12	10.5	2-13
13-6	11.0	2-16	11.0	2-17	11.0	2-11	11.0	2-12	11.0	2-13
14-0	11.5	2-17	11.5	2-18	11.5	2-11	11.5	2-12	11.5	2-13
14-6	11.5	2-18	12.0	2-18	11.5	2-12	11.5	2-13	11.5	2-14
15-0	12.0	2-18	12.5	2-19	12.0	2-12	12.0	2-13	12.0	2-14
15-6	12.5	2-19	13.0	2-19	12.0	2-12	12.0	2-13	12.0	2-15
16-0	13.0	2-19	13.0	2-19	12.5	2-12	12.5	2-13	12.5	2-15
16-6	13.5	2-19	13.5	2-20	13.0	2-12	13.0	2-14	13.0	2-15
17-0	13.5	2-19	14.0	2-20	13.0	2-13	13.0	2-14	13.0	2-16
17-6	14.0	2-19	14.0	2-20	13.5	2-13	13.5	2-15	13.5	2-16
18-0	14.0	2-20	14.5	2-21	13.5	2-14	13.5	2-15	13.5	2-17
18-6	14.5	2-21	14.5	2-21	14.0	2-14	14.0	2-16	14.0	2-17
19-0	14.5	2-21	15.0	2-22	14.0	2-14	14.0	2-16	14.0	2-18
19-6	15.0	2-21	15.5	2-22	14.5	2-15	14.5	2-16	14.5	2-18
20-0	15.5	2-22	15.5	2-23	15.0	2-15	15.0	2-17	15.0	2-18
21-0	16.0	2-23	16.0	2-24	15.5	2-16	15.5	2-17	16.0	2-19
22-0	16.5	2-24	17.0	2-25	16.0	2-16	16.0	2-18	16.5	2-19
23-0	17.0	2-24	17.5	2-25	16.5	2-17	17.0	2-19	17.0	2-20
24-0	17.5	2-25	18.0	2-25	17.0	2-18	17.5	2-19	17.5	2-20
25-0	18.5	2-26	19.0	2-26	18.0	2-18	18.5	2-19	18.5	2-21
26-0	19.0	2-26	20.0	2-26	19.0	2-19	19.0	2-20	19.0	2-22
27-0	20.0	2-26	20.5	2-27	20.0	2-19	20.0	2-20	20.0	2-22
28-0	20.5	2-27	21.5	2-27	20.5	2-19	20.5	2-21	20.5	2-23
29-0	21.5	2-27	22.5	2-28	21.5	2-20	21.5	2-21	21.5	2-23
30-0	22.0	2-28	23.5	2-28	22.0	2-20	22.0	2-22	22.0	2-24

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

200 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.156		0.189		0.224		0.263		0.305	
C to C Beams	5'-0"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	6.5	2-4	6.5	2-4	7.5	2-6	. .	. .	. .	. .
6-6	7.5	2-6	7.5	2-6	7.5	2-7	8.0	2-7	. .	. .
7-0	7.5	2-7	7.5	2-8	7.5	2-8	8.0	2-8	8.0	2-9
7-6	7.5	2-8	7.5	2-9	7.5	2-10	8.0	2-10	8.0	2-10
8-0	8.0	2-9	8.0	2-10	8.0	2-11	8.0	2-11	8.0	2-12
8-6	8.0	2-10	8.0	2-11	8.0	2-11	8.0	2-12	8.5	2-12
9-0	8.5	2-10	8.5	2-11	8.5	2-12	8.5	2-12	8.5	2-12
9-6	8.5	2-11	8.5	2-12	8.5	2-12	9.0	2-13	9.0	2-13
10-0	9.0	2-11	9.0	2-12	9.0	2-12	9.0	2-13	9.5	2-14
10-6	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-14
11-0	9.5	2-12	9.5	2-12	9.5	2-14	9.5	2-14	10.0	2-15
11-6	10.0	2-12	10.0	2-13	10.0	2-14	10.0	2-15	10.5	2-16
12-0	10.0	2-13	10.0	2-14	10.0	2-15	10.5	2-16	10.5	2-16
12-6	10.5	2-13	10.5	2-14	10.5	2-16	10.5	2-16	11.0	2-17
13-0	10.5	2-14	10.5	2-15	10.5	2-16	11.0	2-17	11.0	2-17
13-6	11.0	2-14	11.0	2-15	11.0	2-16	11.0	2-17	11.5	2-18
14-0	11.5	2-15	11.5	2-16	11.5	2-17	11.5	2-18	12.0	2-18
14-6	11.5	2-15	11.5	2-17	11.5	2-18	12.0	2-18	12.5	2-19
15-0	12.0	2-16	12.0	2-17	12.0	2-18	12.5	2-19	13.0	2-19
15-6	12.0	2-16	12.0	2-17	12.5	2-19	13.0	2-19	13.5	2-19
16-0	12.5	2-16	12.5	2-18	13.0	2-19	13.0	2-19	13.5	2-20
16-6	13.0	2-17	13.0	2-18	13.5	2-19	13.5	2-20	14.0	2-20
17-0	13.0	2-17	13.5	2-19	13.5	2-19	14.0	2-20	14.0	2-20
17-6	13.5	2-18	14.0	2-19	14.0	2-19	14.0	2-20	14.5	2-21
18-0	13.5	2-18	14.0	2-19	14.0	2-20	14.5	2-21	15.0	2-22
18-6	14.5	2-19	14.5	2-19	14.5	2-21	14.5	2-21	15.0	2-22
19-0	14.5	2-19	14.5	2-20	14.5	2-21	15.0	2-22	15.5	2-23
19-6	15.0	2-19	15.0	2-20	15.0	2-21	15.5	2-22	16.0	2-23
20-0	15.5	2-19	15.5	2-20	15.5	2-22	15.5	2-23	16.0	2-23
21-0	16.0	2-20	16.0	2-21	16.0	2-22	16.5	2-24	17.0	2-25
22-0	16.5	2-20	16.5	2-22	16.5	2-23	17.0	2-25	17.5	2-25
23-0	17.0	2-21	17.0	2-23	17.0	2-24	17.5	2-25	18.0	2-25
24-0	17.5	2-22	17.5	2-24	17.5	2-25	18.0	2-25	19.0	2-26
25-0	18.5	2-23	18.5	2-24	18.5	2-26	19.0	2-26	20.0	2-26
26-0	19.0	2-24	19.0	2-25	19.0	2-26	20.0	2-26	20.5	2-27
27-0	20.0	2-24	20.0	2-25	20.0	2-26	20.5	2-27	21.5	2-27
28-0	20.5	2-25	20.5	2-26	20.5	2-27	21.5	2-27	22.5	2-28
29-0	21.5	2-25	21.5	2-26	21.5	2-27	22.5	2-28	23.5	2-28
30-0	22.0	2-26	22.0	2-26	22.0	2-28	23.5	2-28	24.5	2-29

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

250 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.067		0.092		0.119		0.151	
Beams C to C	3'-0"		3'-6"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	6.5	2-2	6.5	2-3	6.5	2-4	6.5	2-4
6-6	6.5	2-3	6.5	2-4	7.5	2-5	7.5	2-6
7-0	6.5	2-4	7.5	2-5	7.5	2-6	7.5	2-7
7-6	7.5	2-5	7.5	2-6	7.5	2-8	7.5	2-9
8-0	8.0	2-6	8.0	2-7	8.0	2-8	8.0	2-10
8-6	8.0	2-6	8.0	2-8	8.0	2-9	8.0	2-10
9-0	8.5	2-7	8.5	2-8	8.5	2-10	8.5	2-11
9-6	8.5	2-8	8.5	2-9	8.5	2-10	8.5	2-12
10-0	9.0	2-8	9.0	2-9	9.0	2-11	9.0	2-12
10-6	9.5	2-8	9.5	2-10	9.5	2-11	9.5	2-12
11-0	9.5	2-9	9.5	2-10	9.5	2-12	9.5	2-12
11-6	10.0	2-9	10.0	2-11	10.0	2-12	10.0	2-13
12-0	10.0	2-10	10.0	2-12	10.0	2-12	10.0	2-13
12-6	10.5	2-11	10.5	2-12	10.5	2-13	10.5	2-14
13-0	10.5	2-11	10.5	2-12	10.5	2-13	10.5	2-15
13-6	11.0	2-11	11.0	2-12	11.0	2-13	11.0	2-15
14-0	11.5	2-12	11.5	2-12	11.5	2-14	11.5	2-15
14-6	11.5	2-12	11.5	2-13	11.5	2-15	11.5	2-16
15-0	12.0	2-12	12.0	2-13	12.0	2-15	12.0	2-17
15-6	12.0	2-12	12.0	2-14	12.0	2-16	12.0	2-17
16-0	12.5	2-12	12.5	2-14	12.5	2-16	12.5	2-17
16-6	13.0	2-13	13.0	2-14	13.0	2-16	13.0	2-18
17-0	13.0	2-13	13.0	2-15	13.0	2-17	13.0	2-18
17-6	13.5	2-13	13.5	2-15	13.5	2-17	14.0	2-19
18-0	13.5	2-14	13.5	2-16	13.5	2-18	14.0	2-19
18-6	14.0	2-14	14.0	2-16	14.0	2-18	14.5	2-19
19-0	14.0	2-15	14.0	2-17	14.5	2-19	14.5	2-19
19-6	14.5	2-15	14.5	2-17	15.0	2-19	15.0	2-20
20-0	15.0	2-15	15.0	2-17	15.5	2-19	15.5	2-20
21-0	15.5	2-16	15.5	2-18	16.0	2-19	16.0	2-21
22-0	16.0	2-17	16.5	2-19	16.5	2-20	16.5	2-22
23-0	16.5	2-17	17.0	2-19	17.0	2-21	17.0	2-23
24-0	17.0	2-18	17.5	2-19	17.5	2-21	17.5	2-23
25-0	18.5	2-19	18.5	2-20	18.5	2-22	18.5	2-24
26-0	19.0	2-19	19.0	2-21	19.0	2-23	19.0	2-25
27-0	20.0	2-19	20.0	2-21	20.0	2-23	20.0	2-25
28-0	20.5	2-19	20.5	2-22	20.5	2-24	20.5	2-26
29-0	21.5	2-20	21.5	2-22	21.5	2-24	21.5	2-26
30-0	22.0	2-20	22.0	2-23	22.0	2-25	22.0	2-26

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

250 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.186		0.226		0.268		0.315	
C to C Beams	5'-0"		5'-6"		6'-0"		6'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	7.5	2-6	8.0	2-6	8.0	2-6	8.0	2-8
6-6	7.5	2-7	8.0	2-7	8.0	2-8	8.0	2-10
7-0	7.5	2-8	8.0	2-8	8.0	2-9	8.0	2-11
7-6	7.5	2-10	8.0	2-10	8.0	2-11	8.0	2-11
8-0	8.0	2-11	8.0	2-11	8.0	2-12	8.5	2-12
8-6	8.0	2-11	8.5	2-12	8.5	2-12	8.5	2-12
9-0	8.5	2-12	8.5	2-12	9.0	2-13	9.0	2-13
9-6	8.5	2-12	9.0	2-13	9.0	2-13	9.5	2-14
10-0	9.0	2-12	9.0	2-13	9.5	2-14	9.5	2-14
10-6	9.5	2-13	9.5	2-14	9.5	2-14	10.0	2-15
11-0	9.5	2-13	10.0	2-15	10.0	2-15	10.5	2-16
11-6	10.0	2-14	10.0	2-15	10.5	2-16	10.5	2-16
12-0	10.0	2-15	10.5	2-16	10.5	2-16	11.0	2-17
12-6	10.5	2-16	10.5	2-16	11.0	2-17	11.5	2-18
13-0	10.5	2-16	11.0	2-17	11.5	2-18	11.5	2-18
13-6	11.0	2-16	11.5	2-18	11.5	2-18	12.0	2-18
14-0	11.5	2-17	11.5	2-18	12.0	2-18	13.0	2-19
14-6	11.5	2-18	12.0	2-18	13.0	2-19	13.0	2-19
15-0	12.0	2-18	12.5	2-19	13.0	2-19	13.5	2-19
15-6	12.5	2-19	13.0	2-19	13.5	2-19	14.0	2-20
16-0	13.0	2-19	13.5	2-19	13.5	2-20	14.0	2-20
16-6	13.5	2-19	13.5	2-20	14.0	2-20	14.5	2-21
17-0	13.5	2-19	14.0	2-20	14.5	2-21	15.0	2-22
17-6	14.0	2-19	14.0	2-20	14.5	2-21	15.0	2-22
18-0	14.0	2-20	14.5	2-21	15.0	2-22	15.5	2-22
18-6	14.5	2-21	15.0	2-22	15.5	2-22	16.0	2-23
19-0	14.5	2-21	15.0	2-22	15.5	2-23	16.0	2-23
19-6	15.0	2-21	15.5	2-22	16.0	2-23	16.5	2-24
20-0	15.5	2-22	15.5	2-23	16.5	2-24	17.0	2-25
21-0	16.0	2-22	16.5	2-24	17.0	2-25	17.5	2-25
22-0	16.5	2-23	17.0	2-25	17.5	2-25	18.5	2-26
23-0	17.0	2-24	17.5	2-25	18.5	2-26	19.0	2-26
24-0	17.5	2-25	18.0	2-25	19.5	2-26	20.0	2-26
25-0	18.5	2-26	19.5	2-26	20.0	2-26	21.0	2-27
26-0	19.0	2-26	20.0	2-26	21.0	2-27	22.0	2-28
27-0	20.0	2-26	21.0	2-27	22.0	2-28	23.0	2-28
28-0	20.5	2-27	22.0	2-28	22.5	2-28	23.5	2-28
29-0	21.5	2-27	22.5	2-28	23.5	2-28	24.5	2-29
30-0	22.0	2-28	23.5	2-28	24.5	2-29	25.5	2-29



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

300 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.078		0.108		0.139		0.176	
C to C Beams	3'-0"		3'-6"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	6.5	2-3	6.5	2-4	7.5	2-5	7.5	2-6
6-6	6.5	2-4	7.5	2-5	7.5	2-6	7.5	2-7
7-0	7.5	2-5	7.5	2-7	7.5	2-8	7.5	2-9
7-6	7.5	2-6	7.5	2-8	7.5	2-9	7.5	2-10
8-0								
8-6	8.0	2-7	8.0	2-9	8.0	2-10	8.0	2-11
9-0	8.0	2-8	8.0	2-9	8.0	2-11	8.0	2-12
9-6	8.5	2-8	8.5	2-10	8.5	2-11	8.5	2-12
	8.5	2-9	8.5	2-11	8.5	2-12	8.5	2-12
10-0	9.0	2-9	9.0	2-11	9.0	2-12	9.0	2-13
10-6	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-13
11-0	9.5	2-10	9.5	2-12	9.5	2-13	9.5	2-14
11-6	10.0	2-11	10.0	2-12	10.0	2-13	10.0	2-15
12-0	10.0	2-12	10.0	2-12	10.0	2-14	10.0	2-15
12-6	10.5	2-12	10.5	2-13	10.5	2-15	10.5	2-16
13-0	10.5	2-12	10.5	2-13	10.5	2-15	10.5	2-17
13-6	11.0	2-12	11.0	2-14	11.0	2-15	11.0	2-17
14-0	11.5	2-12	11.5	2-14	11.5	2-16	11.5	2-18
14-6	11.5	2-13	11.5	2-15	11.5	2-17	11.5	2-18
15-0	12.0	2-13	12.0	2-15	12.0	2-17	12.5	2-19
15-6	12.0	2-14	12.0	2-16	12.0	2-18	12.5	2-19
16-0	12.5	2-14	12.5	2-16	12.5	2-18	13.0	2-19
16-6	13.0	2-14	13.0	2-16	13.0	2-18	13.5	2-19
17-0	13.0	2-15	13.0	2-17	13.5	2-19	13.5	2-20
17-6	13.5	2-15	13.5	2-17	14.0	2-19	14.0	2-20
18-0	13.5	2-16	13.5	2-18	14.0	2-19	14.0	2-21
18-6	14.0	2-16	14.0	2-18	14.5	2-19	14.5	2-21
19-0	14.0	2-17	14.5	2-19	14.5	2-20	14.5	2-22
19-6	14.5	2-17	15.0	2-19	15.0	2-20	15.0	2-22
20-0	15.0	2-17	15.5	2-19	15.5	2-21	15.5	2-22
21-0	15.5	2-18	16.0	2-19	16.0	2-21	16.0	2-23
22-0	16.5	2-19	16.5	2-20	16.5	2-22	16.5	2-24
23-0	17.0	2-19	17.0	2-21	17.0	2-23	17.0	2-25
24-0	17.5	2-19	17.5	2-22	17.5	2-24	17.5	2-26
25-0	18.5	2-20	18.5	2-22	18.5	2-25	18.5	2-26
26-0	19.0	2-21	19.0	2-23	19.0	2-25	19.0	2-27
27-0	20.0	2-21	20.0	2-23	20.0	2-26	20.0	2-27
28-0	20.5	2-22	20.5	2-24	20.5	2-26	20.5	2-28
29-0	21.5	2-22	21.5	2-24	21.5	2-26	21.5	2-28
30-0	22.0	2-23	22.0	2-25	22.0	2-27	22.0	2-29

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

300 Lbs.

350 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.217		0.263		0.313		0.089	
C to C Beams	5'-0"		5'-6"		6'-0"		3'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	8.0	2-6	8.0	2-7	8.0	2-8	6.5	2-4
6-6	8.0	2-7	8.0	2-8	8.0	2-9	7.5	2-5
7-0	8.0	2-9	8.0	2-10	8.0	2-11	7.5	2-6
7-6	8.0	2-10	8.0	2-11	8.0	2-12	7.5	2-8
8-0	8.0	2-12	8.5	2-12	8.5	2-12	8.0	2-8
8-6	8.5	2-12	8.5	2-12	9.0	2-13	8.0	2-9
9-0	8.5	2-12	9.0	2-13	9.5	2-14	8.5	2-10
9-6	9.0	2-13	9.5	2-14	9.5	2-14	8.5	2-10
10-0	9.5	2-14	9.5	2-14	10.0	2-15	9.0	2-11
10-6	9.5	2-14	10.0	2-15	10.0	2-15	9.5	2-11
11-0	10.0	2-15	10.5	2-16	10.5	2-16	9.5	2-12
11-6	10.5	2-16	10.5	2-16	10.5	2-16	10.0	2-12
12-0	10.5	2-16	11.0	2-17	11.0	2-17	10.0	2-12
12-6	11.0	2-17	11.0	2-17	11.5	2-18	10.5	2-13
13-0	11.0	2-17	11.5	2-18	11.5	2-18	10.5	2-13
13-6	11.5	2-18	12.0	2-18	12.0	2-18	11.0	2-13
14-0	12.0	2-18	12.5	2-19	13.0	2-19	11.5	2-14
14-6	12.5	2-19	13.0	2-19	13.0	2-19	11.5	2-15
15-0	13.0	2-19	13.5	2-19	13.5	2-19	12.0	2-15
15-6	13.5	2-19	13.5	2-20	14.0	2-20	12.0	2-15
16-0	13.5	2-20	14.0	2-20	14.0	2-20	12.5	2-16
16-6	14.0	2-20	14.5	2-21	14.5	2-21	13.0	2-16
17-0	14.5	2-21	14.5	2-21	15.0	2-22	13.0	2-17
17-6	14.5	2-21	15.0	2-22	15.0	2-22	13.5	2-17
18-0	15.0	2-22	15.5	2-22	16.0	2-23	13.5	2-18
18-6	15.0	2-22	16.0	2-23	16.0	2-23	14.0	2-18
19-0	15.5	2-22	16.0	2-23	16.5	2-24	14.5	2-19
19-6	16.0	2-23	16.5	2-24	17.0	2-25	15.0	2-19
20-0	16.0	2-23	16.5	2-24	17.5	2-25	15.5	2-19
21-0	16.5	2-24	17.5	2-25	18.0	2-25	16.0	2-19
22-0	17.5	2-25	18.0	2-25	19.0	2-26	16.5	2-20
23-0	18.0	2-25	19.5	2-26	20.0	2-26	17.0	2-21
24-0	19.0	2-26	20.0	2-26	21.0	2-27	17.5	2-21
25-0	20.0	2-26	20.5	2-27	21.5	2-27	18.5	2-22
26-0	20.5	2-27	21.5	2-27	22.5	2-28	19.0	2-23
27-0	21.5	2-27	22.5	2-28	23.5	2-28	20.0	2-23
28-0	22.5	2-28	23.5	2-28	24.5	2-29	20.5	2-24
29-0	23.5	2-28	24.5	2-29	25.5	2-29	21.5	2-24
30-0	24.5	2-29	25.5	2-29	.	.	22.0	2-25

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

350 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.121		0.159		0.201		0.248	
C to C Beams	3'-6"		4'-0"		4'-6"		5'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	7.5	2-5	8.0	2-5	8.0	2-6	8.0	2-7
6-6	7.5	2-6	8.0	2-7	8.0	2-8	8.0	2-9
7-0	7.5	2-8	9.0	2-8	8.0	2-9	8.0	2-10
7-6	7.5	2-9	8.0	2-9	8.0	2-10	8.0	2-12
8-0	8.0	2-10	8.0	2-11	8.0	2-12	8.5	2-12
8-6	8.0	2-11	8.0	2-12	8.5	2-12	9.0	2-13
9-0	8.5	2-11	8.5	2-12	9.0	2-13	9.0	2-13
9-6	8.5	2-12	9.0	2-13	9.0	2-13	9.5	2-14
10-0	9.0	2-12	9.0	2-13	9.5	2-14	10.0	2-15
10-6	9.5	2-12	9.5	2-14	9.5	2-14	10.0	2-15
11-0	9.5	2-13	9.5	2-14	10.0	2-15	10.5	2-16
11-6	10.0	2-13	10.0	2-15	10.5	2-16	10.5	2-16
12-0	10.0	2-14	10.5	2-16	10.5	2-16	11.0	2-17
12-6	10.5	2-15	10.5	2-16	10.5	2-16	11.5	2-18
13-0	10.5	2-15	11.0	2-17	11.5	2-18	11.5	2-18
13-6	11.0	2-15	11.0	2-17	11.5	2-18	12.5	2-19
14-0	11.5	2-16	11.5	2-18	12.0	2-18	13.0	2-19
14-6	11.5	2-17	11.5	2-18	12.5	2-19	13.0	2-19
15-0	12.0	2-17	12.5	2-19	13.0	2-19	13.5	2-20
15-6	12.0	2-18	13.0	2-19	13.5	2-19	14.0	2-20
16-0	12.5	2-18	13.0	2-19	13.5	2-20	14.0	2-20
16-6	13.0	2-18	13.5	2-20	14.0	2-20	14.5	2-21
17-0	13.5	2-19	14.0	2-20	14.0	2-21	15.0	2-22
17-6	14.0	2-19	14.0	2-20	14.0	2-21	15.0	2-22
18-0	14.0	2-19	14.5	2-21	14.5	2-22	15.5	2-23
18-6	14.5	2-19	14.5	2-21	15.5	2-22	16.0	2-23
19-0	14.5	2-20	15.0	2-22	15.5	2-23	16.5	2-24
19-6	15.0	2-20	15.0	2-22	16.0	2-23	16.5	2-24
20-0	15.5	2-21	15.5	2-23	16.5	2-24	17.0	2-25
21-0	16.0	2-21	16.0	2-23	17.0	2-25	17.5	2-25
22-0	16.5	2-22	17.0	2-25	17.5	2-25	18.5	2-26
23-0	17.0	2-23	17.5	2-25	18.5	2-26	19.0	2-26
24-0	17.5	2-24	18.0	2-25	19.5	2-26	20.0	2-26
25-0	18.5	2-24	18.5	2-26	19.5	2-26	21.0	2-27
26-0	19.0	2-25	20.0	2-26	21.0	2-27	22.0	2-28
27-0	20.0	2-26	20.5	2-27	22.0	2-28	23.0	2-28
28-0	20.5	2-26	21.5	2-27	22.5	2-28	24.5	2-29
29-0	21.5	2-26	22.0	2-28	23.5	2-28	25.5	2-29
30-0	22.0	2-27	23.0	2-28	24.5	2-29	. .	. .

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

350 Lbs.

400 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.300		0.357		0.100		0.137	
C to C Beams	5'-6"		6'-0"		3'-0"		3'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	8.0	2- 8	8.0	2- 9	6.5	2- 4	7.5	2- 6
6-6	8.0	2-10	8.0	2-11	7.5	2- 6	7.5	2- 7
7-0	8.0	2-11	8.0	2-12	7.5	2- 7	7.5	2- 9
7-6	8.0	2-12	8.5	2-12	7.5	2- 9	7.5	2-10
8-0	8.5	2-12	9.0	2-13	8.0	2-10	8.0	2-11
8-6	9.0	2-13	9.5	2-14	8.0	2-10	8.0	2-12
9-0	9.5	2-14	9.5	2-14	8.5	2-11	8.5	2-12
9-6	9.5	2-14	10.0	2-15	8.5	2-12	8.5	2-12
10-0	10.0	2-15	10.5	2-16	9.0	2-12	9.0	2-13
10-6	10.5	2-16	10.5	2-16	9.5	2-12	9.5	2-13
11-0	10.5	2-16	11.0	2-17	9.5	2-12	9.5	2-14
11-6	11.0	2-17	11.5	2-18	10.0	2-13	10.0	2-15
12-0	11.5	2-18	12.0	2-18	10.0	2-13	10.0	2-15
12-6	11.5	2-18	12.5	2-19	10.5	2-14	10.5	2-16
13-0	12.0	2-18	13.0	2-19	10.5	2-15	10.5	2-17
13-6	13.0	2-19	13.5	2-19	11.0	2-15	11.0	2-17
14-0	13.0	2-19	14.0	2-20	11.5	2-15	11.5	2-18
14-6	13.5	2-19	14.5	2-21	11.5	2-16	11.5	2-18
15-0	14.0	2-20	14.5	2-21	12.0	2-17	12.5	2-19
15-6	14.0	2-20	15.0	2-22	12.0	2-17	12.5	2-19
16-0	14.5	2-21	15.0	2-22	12.5	2-17	13.0	2-19
16-6	15.0	2-22	15.5	2-23	13.0	2-18	13.5	2-19
17-0	15.0	2-22	16.0	2-23	13.0	2-18	13.5	2-20
17-6	15.5	2-23	16.5	2-24	14.0	2-19	14.0	2-20
18-0	16.0	2-23	16.5	2-24	14.0	2-19	14.0	2-21
18-6	16.0	2-23	17.0	2-25	14.5	2-19	14.5	2-21
19-0	16.5	2-24	17.5	2-25	14.5	2-19	14.5	2-22
19-6	17.0	2-25	18.0	2-25	15.0	2-20	15.0	2-22
20-0	17.5	2-25	18.5	2-26	15.5	2-20	15.5	2-22
21-0	18.0	2-25	19.0	2-26	16.0	2-21	16.0	2-23
22-0	19.0	2-26	20.0	2-26	16.5	2-22	16.5	2-24
23-0	20.0	2-26	21.0	2-27	17.0	2-22	17.0	2-25
24-0	20.5	2-27	22.0	2-28	17.5	2-23	17.5	2-26
25-0	21.5	2-27	23.0	2-28	18.5	2-24	18.5	2-26
26-0	22.5	2-28	24.5	2-29	19.0	2-25	19.0	2-27
27-0	23.5	2-28	25.5	2-29	20.0	2-25	20.0	2-27
28-0	24.5	2-29	. .	. .	20.5	2-26	20.5	2-28
29-0	25.5	2-29	. .	. .	21.5	2-26	21.5	2-28
30-0	. .	. .	. .	. .	22.0	2-26	22.0	2-29

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 4½-inch Slab

Safe Live Load in Pounds per Square Foot

400 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.178		0.225		0.278		0.337	
C to C Beams	4'-0"		4'-6"		5'-0"		5'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	8.0	2-6	8.0	2-7	8.0	2-8	8.0	2-9
6-6	8.0	2-8	8.0	2-9	8.0	2-10	8.0	2-11
7-0	8.0	2-9	8.0	2-10	8.0	2-11	8.5	2-12
7-6	8.0	2-10	8.0	2-12	8.5	2-12	8.5	2-12
8-0	8.0	2-12	8.5	2-12	9.0	2-13	9.0	2-13
8-6	8.5	2-12	9.0	2-13	9.0	2-13	9.5	2-14
9-0	9.0	2-13	9.0	2-13	9.5	2-14	10.0	2-15
9-6	9.0	2-13	9.5	2-14	10.0	2-15	10.0	2-15
10-0	9.5	2-14	10.0	2-15	10.0	2-15	10.5	2-16
10-6	9.5	2-14	10.0	2-15	10.5	2-16	11.0	2-17
11-0	10.0	2-15	10.5	2-16	11.0	2-17	11.0	2-17
11-6	10.5	2-16	11.0	2-17	11.0	2-17	11.5	2-18
12-0	10.5	2-16	11.0	2-17	11.5	2-18	12.0	2-18
12-6	11.0	2-17	11.5	2-18	12.0	2-18	13.0	2-19
13-0	11.5	2-18	12.0	2-18	12.5	2-19	13.0	2-19
13-6	11.5	2-18	12.5	2-19	13.0	2-19	13.5	2-20
14-0	12.0	2-18	13.0	2-19	13.5	2-19	14.0	2-20
14-6	12.5	2-19	13.5	2-19	14.0	2-20	14.5	2-21
15-0	13.0	2-19	13.5	2-20	14.0	2-20	14.5	2-21
15-6	13.5	2-19	14.0	2-20	14.5	2-21	15.0	2-22
16-0	13.5	2-20	14.5	2-21	15.0	2-22	15.5	2-22
16-6	14.0	2-20	14.5	2-21	15.0	2-22	16.0	2-23
17-0	14.5	2-21	15.0	2-22	15.5	2-23	16.0	2-23
17-6	14.5	2-21	15.5	2-22	16.0	2-23	16.5	2-24
18-0	15.0	2-22	15.5	2-23	16.5	2-24	17.0	2-25
18-6	15.5	2-22	16.0	2-23	16.5	2-24	17.5	2-25
19-0	15.5	2-23	16.5	2-24	17.0	2-25	18.0	2-25
19-6	16.0	2-23	16.5	2-24	17.5	2-25	18.0	2-25
20-0	16.5	2-24	17.0	2-25	18.0	2-25	18.5	2-26
21-0	17.0	2-25	18.0	2-25	18.5	2-26	19.5	2-26
22-0	17.5	2-25	18.5	2-26	19.5	2-26	20.5	2-27
23-0	18.5	2-26	19.5	2-26	20.5	2-27	21.5	2-27
24-0	19.0	2-26	20.5	2-27	21.5	2-27	22.5	2-28
25-0	20.0	2-26	21.0	2-27	22.5	2-28	23.5	2-28
26-0	21.0	2-27	22.0	2-28	23.5	2-28	24.5	2-29
27-0	22.0	2-28	23.0	2-28	24.5	2-29	. . .	. . .
28-0	23.0	2-28	24.5	2-29	25.5	2-29	. . .	. . .
29-0	23.5	2-28	25.5	2-29	. . .	. . .	. . .	. . .
30-0	24.5	2-29	. . .	. . .	. . .	. . .	. . .	. . .

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.091		0.105		0.121		0.137		0.155	
C to C Beams	6'-6"		7'-0"		7'-6"		8'-0"		8'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	7.5	2-4	7.5	2-4	8.5	2-5	8.5	2-6	8.5	2-6
9-6	7.5	2-4	8.5	2-5	8.5	2-5	8.5	2-7	8.5	2-7
10-0	8.0	2-4	9.0	2-6	9.0	2-6	9.0	2-7	9.0	2-7
10-6	9.5	2-5	9.5	2-6	9.5	2-7	9.5	2-7	9.5	2-8
11-0	9.5	2-6	9.5	2-7	9.5	2-7	9.5	2-8	9.5	2-8
11-6	10.0	2-6	10.0	2-7	10.0	2-8	10.0	2-8	10.0	2-9
12-0	10.0	2-7	10.0	2-7	10.0	2-8	10.0	2-9	10.0	2-9
12-6	10.5	2-7	10.5	2-8	10.5	2-9	10.5	2-9	10.5	2-10
13-0	10.5	2-8	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-10
13-6	11.0	2-8	11.0	2-9	11.0	2-9	11.0	2-10	11.0	2-10
14-0	11.5	2-8	11.5	2-9	11.5	2-10	11.5	2-10	11.5	2-11
14-6	11.5	2-9	11.5	2-10	11.5	2-10	11.5	2-11	11.5	2-12
15-0	12.0	2-9	12.0	2-10	12.0	2-10	12.0	2-11	12.0	2-12
15-6	12.0	2-10	12.0	2-10	12.0	2-11	12.0	2-12	12.0	2-12
16-0	12.5	2-10	12.5	2-10	12.5	2-11	12.5	2-12	12.5	2-12
16-6	13.0	2-10	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-12
17-0	13.0	2-10	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-12
17-6	13.5	2-11	13.5	2-12	13.5	2-12	13.5	2-12	13.5	2-13
18-0	13.5	2-11	13.5	2-12	13.5	2-12	13.5	2-12	13.5	2-13
18-6	14.0	2-12	14.0	2-12	14.0	2-12	14.0	2-13	14.0	2-14
19-0	14.0	2-12	14.0	2-12	14.0	2-13	14.0	2-13	14.0	2-14
19-6	14.5	2-12	14.5	2-12	14.5	2-13	14.5	2-13	14.5	2-14
20-0	15.0	2-12	15.0	2-12	15.0	2-13	15.0	2-14	15.0	2-15
21-0	15.5	2-12	15.5	2-13	15.5	2-13	15.5	2-14	15.5	2-15
22-0	16.0	2-13	16.0	2-13	16.0	2-14	16.0	2-15	16.0	2-16
23-0	16.5	2-13	16.5	2-14	16.5	2-15	16.5	2-16	16.5	2-17
24-0	17.0	2-14	17.0	2-15	17.0	2-16	17.0	2-16	17.0	2-17
25-0	17.5	2-15	17.5	2-16	17.5	2-17	17.5	2-17	17.5	2-18
26-0	18.5	2-15	18.5	2-16	18.5	2-17	18.5	2-18	19.0	2-19
27-0	19.0	2-16	19.0	2-17	19.0	2-18	19.5	2-19	19.5	2-19
28-0	19.5	2-16	19.5	2-17	19.5	2-18	20.0	2-19	20.0	2-19
29-0	20.5	2-17	20.5	2-18	21.0	2-19	21.0	2-19	21.0	2-19
30-0	21.0	2-17	21.0	2-18	21.5	2-19	21.5	2-19	21.5	2-20

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.174		0.194		0.215		0.237		0.260	
C to C Beams	9'-0"		9'-6"		10'-0"		10'-6"		11'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	8.5	2-7	..	..	..	..	..	..	..	..
9-6	8.5	2-8	8.5	2-8	..	..	..	..	..	..
10-0	9.0	2-8	9.0	2-8	9.0	2-9	..	..	..	..
10-6	9.5	2-8	9.5	2-9	9.5	2-9	9.5	2-10	..	..
11-0	9.5	2-9	9.5	2-9	9.5	2-10	9.5	2-10	9.5	2-11
11-6	10.0	2-9	10.0	2-10	10.0	2-10	10.0	2-11	10.0	2-11
12-0	10.0	2-10	10.0	2-10	10.0	2-11	10.0	2-11	10.0	2-12
12-6	10.5	2-10	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-12
13-0	10.5	2-11	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-12
13-6	11.0	2-11	11.0	2-12	11.0	2-12	11.0	2-12	11.0	2-12
14-0	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-13
14-6	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-13
15-0	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-13	12.0	2-14
15-6	12.0	2-12	12.0	2-13	12.0	2-13	12.0	2-14	12.0	2-14
16-0	12.5	2-12	12.5	2-13	12.5	2-13	12.5	2-14	12.5	2-14
16-6	13.0	2-13	13.0	2-13	13.0	2-14	13.0	2-14	13.0	2-15
17-0	13.0	2-13	13.0	2-14	13.0	2-14	13.0	2-15	13.0	2-15
17-6	13.5	2-13	13.5	2-14	13.5	2-15	13.5	2-15	13.5	2-16
18-0	13.5	2-14	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-16
18-6	14.0	2-14	14.0	2-15	14.0	2-16	14.0	2-16	14.0	2-17
19-0	14.0	2-15	14.0	2-15	14.0	2-16	14.0	2-17	14.0	2-17
19-6	14.5	2-15	14.5	2-15	14.5	2-16	14.5	2-17	14.5	2-17
20-0	15.0	2-15	15.0	2-16	15.0	2-17	15.0	2-17	15.0	2-18
21-0	15.5	2-16	15.5	2-16	15.5	2-17	15.5	2-18	15.5	2-18
22-0	16.0	2-17	16.0	2-17	16.0	2-18	16.5	2-19	16.5	2-19
23-0	16.5	2-17	16.5	2-18	17.0	2-19	17.0	2-19	17.0	2-19
24-0	17.0	2-18	17.5	2-19	17.5	2-19	17.5	2-19	17.5	2-20
25-0	18.0	2-19	18.0	2-19	18.0	2-20	18.0	2-20	18.0	2-21
26-0	19.0	2-19	19.0	2-19	19.0	2-20	19.0	2-21	19.0	2-21
27-0	19.5	2-19	19.5	2-20	19.5	2-21	19.5	2-21	19.5	2-22
28-0	20.0	2-20	20.0	2-21	20.0	2-21	20.0	2-22	20.0	2-23
29-0	21.0	2-20	21.0	2-21	21.0	2-22	21.0	2-22	21.0	2-23
30-0	21.5	2-21	21.5	2-22	21.5	2-22	21.5	2-23	21.5	2-24

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.284		0.309		0.100		0.116		0.133	
C to C Beams	11'-6"		12'-0"		6'-6"		7'-0"		7'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	..	..	..	..	8.5	2-5	8.5	2-5	8.5	2-6
9-6	..	..	..	..	8.5	2-6	8.5	2-6	8.5	2-7
10-0	..	..	..	..	9.0	2-6	9.0	2-6	9.0	2-7
10-6	..	..	..	..	9.5	2-6	9.5	2-7	9.5	2-8
11-0	..	..	..	..	9.5	2-7	9.5	2-7	9.5	2-8
11-6	10.0	2-12	..	..	10.0	2-7	10.0	2-8	10.0	2-8
12-0	10.0	2-12	10.0	2-12	10.0	2-8	10.0	2-8	10.0	2-9
12-6	10.5	2-12	10.5	2-13	10.5	2-8	10.5	2-9	10.5	2-9
13-0	10.5	2-13	10.5	2-13	10.5	2-9	10.5	2-9	10.5	2-10
13-6	11.0	2-13	11.0	2-13	11.0	2-9	11.0	2-9	11.0	2-10
14-0	11.5	2-13	11.5	2-14	11.5	2-9	11.5	2-10	11.5	2-11
14-6	11.5	2-14	11.5	2-15	11.5	2-10	11.5	2-10	11.5	2-11
15-0	12.0	2-14	12.0	2-15	12.0	2-10	12.0	2-11	12.0	2-12
15-6	12.0	2-15	12.0	2-15	12.0	2-10	12.0	2-11	12.0	2-12
16-0	12.5	2-15	12.5	2-16	12.5	2-11	12.5	2-11	12.5	2-12
16-6	13.0	2-16	13.0	2-16	13.0	2-11	13.0	2-12	13.0	2-12
17-0	13.0	2-16	13.0	2-17	13.0	2-11	13.0	2-12	13.0	2-12
17-6	13.5	2-16	13.5	2-17	13.5	2-12	13.5	2-12	13.5	2-12
18-0	13.5	2-17	13.5	2-18	13.5	2-12	13.5	2-12	13.5	2-13
18-6	14.0	2-17	14.0	2-18	14.0	2-12	14.0	2-12	14.0	2-13
19-0	14.0	2-18	14.0	2-18	14.0	2-12	14.0	2-13	14.0	2-14
19-6	14.5	2-18	15.0	2-19	14.5	2-12	14.5	2-13	14.5	2-14
20-0	15.0	2-18	15.5	2-19	15.0	2-12	15.0	2-13	15.0	2-14
21-0	16.0	2-19	16.0	2-19	15.5	2-13	15.5	2-14	15.5	2-15
22-0	16.5	2-19	16.5	2-20	16.0	2-14	16.0	2-15	16.0	2-15
23-0	17.0	2-20	17.0	2-20	16.5	2-14	16.5	2-15	16.5	2-16
24-0	17.5	2-21	17.5	2-21	17.0	2-15	17.0	2-16	17.0	2-17
25-0	18.0	2-22	18.0	2-22	17.5	2-16	17.5	2-17	17.5	2-18
26-0	19.0	2-22	19.0	2-23	18.5	2-16	18.5	2-17	18.5	2-18
27-0	19.5	2-23	19.5	2-24	19.0	2-17	19.0	2-18	19.5	2-19
28-0	20.0	2-24	20.0	2-24	19.5	2-18	20.0	2-19	20.0	2-19
29-0	21.0	2-24	21.0	2-25	20.5	2-18	21.0	2-19	21.0	2-19
30-0	21.5	2-25	21.5	2-25	21.5	2-19	21.5	2-19	21.5	2-20



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.151		0.171		0.191		0.213		0.236	
C to C Beams	8'-0"		8'-6"		9'-0"		9'-6"		10'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	8.5	2-6	8.5	2-7	8.5	2-7	..	..	..	..
9-6	8.5	2-7	8.5	2-8	8.5	2-8	8.5	2-9	..	..
10-0	9.0	2-7	9.0	2-8	9.0	2-8	9.0	2-9	9.0	2-10
10-6	9.5	2-8	9.5	2-9	9.5	2-9	9.5	2-10	9.5	2-10
11-0	9.5	2-9	9.5	2-9	9.5	2-10	9.5	2-10	9.5	2-11
11-6	10.0	2-9	10.0	2-10	10.0	2-10	10.0	2-11	10.0	2-11
12-0	10.0	2-10	10.0	2-10	10.0	2-11	10.0	2-11	10.0	2-12
12-6	10.5	2-10	10.5	2-11	10.5	2-11	10.5	2-12	10.5	2-12
13-0	10.5	2-11	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-12
13-6	11.0	2-11	11.0	2-12	11.0	2-12	11.0	2-12	11.0	2-12
14-0	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-13
14-6	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-13
15-0	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-13	12.0	2-14
15-6	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-14	12.0	2-14
16-0	12.5	2-12	12.5	2-12	12.5	2-13	12.5	2-14	12.5	2-14
16-6	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-14	13.0	2-15
17-0	13.0	2-13	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-15
17-6	13.5	2-13	13.5	2-14	13.5	2-14	13.5	2-15	13.5	2-16
18-0	13.5	2-14	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-16
18-6	14.0	2-14	14.0	2-15	14.0	2-15	14.0	2-16	14.0	2-17
19-0	14.0	2-14	14.0	2-15	14.0	2-16	14.0	2-17	14.0	2-17
19-6	14.5	2-15	14.5	2-15	14.5	2-16	14.5	2-17	14.5	2-17
20-0	15.0	2-15	15.0	2-16	15.0	2-16	15.0	2-17	15.0	2-18
21-0	15.5	2-15	15.5	2-16	15.5	2-17	15.5	2-18	15.5	2-18
22-0	16.0	2-16	16.0	2-17	16.0	2-18	16.5	2-19	16.5	2-19
23-0	16.5	2-17	16.5	2-18	17.0	2-19	17.0	2-19	17.0	2-19
24-0	17.0	2-18	17.5	2-19	17.5	2-19	17.5	2-19	17.5	2-20
25-0	18.0	2-19	18.0	2-19	18.0	2-20	18.0	2-20	18.0	2-21
26-0	19.0	2-19	19.0	2-19	19.0	2-20	19.0	2-21	19.0	2-21
27-0	19.5	2-19	19.5	2-20	19.5	2-21	19.5	2-21	19.5	2-22
28-0	20.0	2-19	20.0	2-20	20.0	2-21	20.0	2-22	20.0	2-23
29-0	21.0	2-20	21.0	2-21	21.0	2-22	21.0	2-22	21.0	2-23
30-0	21.5	2-20	21.5	2-21	21.5	2-22	21.5	2-23	21.5	2-24

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.260		0.285		0.312		0.340	
C to C Beams	10'-6"		11'-0"		11'-6"		12'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	. .	. .
7-6	. .	. .	. .	. .	. .	. .	. .	. .
8-0	. .	. .	. .	. .	. .	. .	. .	. .
8-6	. .	. .	. .	. .	. .	. .	. .	. .
9-0	. .	. .	. .	. .	. .	. .	. .	. .
9-6	. .	. .	. .	. .	. .	. .	. .	. .
10-0	. .	. .	. .	. .	. .	. .	. .	. .
10-6	9.5	2-11	. .	. .	. .	. .	. .	. .
11-0	9.5	2-11	9.5	2-12	. .	. .	. .	. .
11-6	10.0	2-12	10.0	2-12	10.0	2-12	. .	. .
12-0	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-13
12-6	10.5	2-12	10.5	2-13	10.5	2-13	10.5	2-14
13-0	10.5	2-13	10.5	2-13	10.5	2-14	10.5	2-14
13-6	11.0	2-13	11.0	2-13	11.0	2-14	11.0	2-14
14-0	11.5	2-13	11.5	2-14	11.5	2-15	11.5	2-15
14-6	11.5	2-14	11.5	2-15	11.5	2-15	11.5	2-16
15-0	12.0	2-14	12.0	2-15	12.0	2-16	12.0	2-16
15-6	12.0	2-15	12.0	2-15	12.0	2-16	12.0	2-17
16-0	12.5	2-15	12.5	2-16	12.5	2-16	12.5	2-17
16-6	13.0	2-15	13.0	2-16	13.0	2-17	13.0	2-17
17-0	13.0	2-16	13.0	2-17	13.0	2-17	13.0	2-18
17-6	13.5	2-16	13.5	2-17	13.5	2-18	13.5	2-18
18-0	13.5	2-17	13.5	2-18	13.5	2-18	14.0	2-19
18-6	14.0	2-17	14.0	2-18	14.5	2-19	14.5	2-19
19-0	14.0	2-18	14.5	2-19	14.5	2-19	14.5	2-19
19-6	14.5	2-18	15.0	2-19	15.0	2-19	15.0	2-19
20-0	15.5	2-19	15.5	2-19	15.5	2-19	15.5	2-20
21-0	16.0	2-19	16.0	2-19	16.0	2-19	16.0	2-20
22-0	16.5	2-19	16.5	2-20	16.5	2-20	16.5	2-21
23-0	17.0	2-20	17.0	2-21	17.0	2-21	17.0	2-22
24-0	17.5	2-21	17.5	2-22	17.5	2-22	17.5	2-23
25-0	18.0	2-22	18.0	2-23	18.0	2-23	18.0	2-24
26-0	19.0	2-22	19.0	2-23	19.0	2-24	19.0	2-24
27-0	19.5	2-23	19.5	2-24	19.5	2-24	19.5	2-25
28-0	20.0	2-24	20.0	2-24	20.0	2-25	20.0	2-26
29-0	21.0	2-24	21.0	2-25	21.0	2-26	21.0	2-26
30-0	21.5	2-25	21.5	2-25	21.5	2-26	21.5	2-26

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.104		0.123		0.142		0.163		0.185	
C to C Beams	6'-0"		6'-6"		7'-0"		7'-6"		8'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	7.0	2-4	7.0	2-4	8.0	2-5	8.0	2-6	8.0	2-6
8-6	8.0	2-5	8.0	2-5	8.0	2-6	8.0	2-7	8.0	2-7
9-0	8.5	2-6	8.5	2-6	8.5	2-7	8.5	2-8	8.5	2-8
9-6	8.5	2-7	8.5	2-7	8.5	2-8	8.5	2-9	8.5	2-9
10-0	9.0	2-7	9.0	2-7	9.0	2-8	9.0	2-9	9.0	2-9
10-6	9.5	2-7	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-10
11-0	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-10	9.5	2-11
11-6	10.0	2-8	10.0	2-9	10.0	2-10	10.0	2-10	10.0	2-11
12-0	10.0	2-9	10.0	2-10	10.0	2-10	10.0	2-11	10.0	2-12
12-6	10.5	2-9	10.5	2-10	10.5	2-11	10.5	2-12	10.5	2-12
13-0	10.5	2-10	10.5	2-11	10.5	2-11	10.5	2-12	10.5	2-12
13-6	11.0	2-10	11.0	2-11	11.0	2-12	11.0	2-12	11.0	2-12
14-0	11.5	2-10	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-13
14-6	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-13
15-0	12.0	2-11	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-14
15-6	12.0	2-12	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-14
16-0	12.5	2-12	12.5	2-12	12.5	2-13	12.5	2-14	12.5	2-14
16-6	13.0	2-12	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-15
17-0	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-14	13.0	2-15
17-6	13.5	2-12	13.5	2-13	13.5	2-14	13.5	2-15	13.5	2-16
18-0	13.5	2-13	13.5	2-14	13.5	2-14	13.5	2-15	13.5	2-16
18-6	14.0	2-13	14.0	2-14	14.0	2-15	14.0	2-16	14.0	2-17
19-0	14.0	2-13	14.0	2-14	14.0	2-15	14.0	2-16	14.0	2-17
19-6	14.5	2-13	14.5	2-14	14.5	2-15	14.5	2-16	14.5	2-17
20-0	15.0	2-14	15.0	2-15	15.0	2-16	15.0	2-17	15.0	2-18
21-0	15.5	2-14	15.5	2-15	15.5	2-16	15.5	2-17	15.5	2-18
22-0	16.0	2-15	16.0	2-16	16.0	2-17	16.0	2-18	16.5	2-19
22-6	16.5	2-16	16.5	2-17	16.5	2-18	17.0	2-19	17.0	2-19
24-0	17.0	2-17	17.0	2-18	17.5	2-19	17.5	2-19	17.5	2-20
25-0	17.5	2-17	17.5	2-18	18.0	2-19	18.0	2-19	18.0	2-20
26-0	18.5	2-17	19.0	2-19	19.0	2-19	19.0	2-20	19.0	2-21
27-0	19.0	2-18	19.5	2-19	19.5	2-19	19.5	2-20	19.5	2-21
28-0	20.0	2-19	20.0	2-19	20.0	2-20	20.0	2-21	20.0	2-22
29-0	21.0	2-19	21.0	2-19	21.0	2-20	21.0	2-21	21.0	2-22
30-0	21.5	2-19	21.5	2-20	21.5	2-21	21.5	2-22	21.5	2-23

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.210		0.235		0.262		0.290		0.320	
C to C Beams	8'-6"		9'-0"		9'-6"		10'-0"		10'-6"	
Span Ft..In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	8.0	2-8	..	..	..	..	..	..	..	..
9-0	8.5	2-9	8.5	2-9	..	..	..	..	..	..
9-6	8.5	2-10	8.5	2-10	8.5	2-11	..	..	..	..
10-0	9.0	2-10	9.0	2-11	9.0	2-11	9.0	2-12	..	..
10-6	9.5	2-11	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-12
11-0	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-12	9.5	2-13
11-6	10.0	2-12	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-13
12-0	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-13	10.0	2-14
12-6	10.5	2-12	10.5	2-13	10.5	2-13	10.5	2-14	10.5	2-15
13-0	10.5	2-13	10.5	2-13	10.5	2-14	10.5	2-15	10.5	2-15
13-6	11.0	2-13	11.0	2-13	11.0	2-14	11.0	2-15	11.0	2-15
14-0	11.5	2-13	11.5	2-14	11.5	2-15	11.5	2-15	11.5	2-16
14-6	11.5	2-14	11.5	2-15	11.5	2-15	11.5	2-16	11.5	2-17
15-0	12.0	2-14	12.0	2-15	12.0	2-16	12.0	2-16	12.0	2-17
15-6	12.0	2-15	12.0	2-16	12.0	2-16	12.0	2-17	12.0	2-18
16-0	12.5	2-15	12.5	2-16	12.5	2-16	12.5	2-17	12.5	2-18
16-6	13.0	2-15	13.0	2-16	13.0	2-17	13.0	2-18	13.0	2-18
17-0	13.0	2-16	13.0	2-17	13.0	2-17	13.0	2-18	13.5	2-19
17-6	13.5	2-16	13.5	2-17	13.5	2-18	14.0	2-19	14.0	2-19
18-0	13.5	2-17	13.5	2-18	13.5	2-18	14.0	2-19	14.0	2-19
18-6	14.0	2-17	14.0	2-18	14.5	2-19	14.5	2-19	14.5	2-19
19-0	14.0	2-18	14.5	2-19	14.5	2-19	14.5	2-19	14.5	2-20
19-6	14.5	2-18	15.0	2-19	15.0	2-19	15.0	2-19	15.0	2-20
20-0	15.0	2-18	15.5	2-19	15.5	2-19	15.5	2-20	15.5	2-21
21-0	16.0	2-19	16.0	2-19	16.0	2-20	16.0	2-20	16.0	2-21
22-0	16.5	2-19	16.5	2-20	16.5	2-21	16.5	2-21	16.5	2-22
23-0	17.0	2-20	17.0	2-21	17.0	2-22	17.0	2-22	17.0	2-23
24-0	17.5	2-21	17.5	2-21	17.5	2-22	17.5	2-23	17.5	2-24
25-0	18.0	2-21	18.0	2-22	18.0	2-23	18.0	2-24	18.0	2-25
26-0	19.0	2-22	19.0	2-22	19.0	2-23	19.0	2-24	19.0	2-25
27-0	19.5	2-22	19.5	2-23	19.5	2-24	19.5	2-25	19.5	2-26
28-0	20.0	2-23	20.0	2-24	20.0	2-25	20.0	2-26	20.0	2-26
29-0	21.0	2-23	21.0	2-24	21.0	2-25	21.0	2-26	21.0	2-26
30-0	21.5	2-24	21.5	2-25	21.5	2-26	21.5	2-26	21.5	2-27

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

100 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.350		0.104		0.124		0.145		0.168	
C to C Beams	11'-0"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-6	. .	. .	7.0	2-3	7.0	2-4	8.0	2-5	8.0	2-6
8-0	. .	. .	7.0	2-4	8.0	2-5	8.0	2-6	8.0	2-7
8-6	. .	. .	8.0	2-5	8.0	2-6	8.0	2-7	8.0	2-8
9-0	. .	. .	8.5	2-6	8.5	2-7	8.5	2-8	8.5	2-9
9-6	. .	. .	8.5	2-7	8.5	2-8	8.5	2-9	8.5	2-10
10-0	. .	. .	9.0	2-8	9.0	2-8	9.0	2-9	9.0	2-10
10-6	. .	. .	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-10
11-0	9.5	2-13	9.5	2-9	9.5	2-9	9.5	2-10	9.5	2-11
11-6	10.0	2-14	10.0	2-9	10.0	2-10	10.0	2-11	10.0	2-12
12-0	10.0	2-15	10.0	2-10	10.0	2-10	10.0	2-11	10.0	2-12
12-6	10.5	2-15	10.5	2-10	10.5	2-11	10.5	2-12	10.5	2-12
13-0	10.5	2-16	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-12
13-6	11.0	2-16	11.0	2-11	11.0	2-12	11.0	2-12	11.0	2-12
14-0	11.5	2-17	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-13
14-6	11.5	2-17	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-14
15-0	12.0	2-18	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-14
15-6	12.0	2-18	12.0	2-12	12.0	2-13	12.0	2-14	12.0	2-14
16-0	12.5	2-18	12.5	2-12	12.5	2-13	12.5	2-14	12.5	2-15
16-6	13.5	2-19	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-15
17-0	13.5	2-19	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-16
17-6	14.0	2-19	13.5	2-14	13.5	2-14	13.5	2-15	13.5	2-16
18-0	14.0	2-20	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-17
18-6	14.5	2-20	14.0	2-14	14.0	2-15	14.0	2-16	14.0	2-17
19-0	14.5	2-21	14.0	2-14	14.0	2-15	14.0	2-17	14.0	2-18
19-6	15.0	2-21	14.5	2-14	14.5	2-16	14.5	2-17	14.5	2-18
20-0	15.5	2-21	15.0	2-15	15.0	2-16	15.0	2-17	15.0	2-18
21-0	16.0	2-22	15.5	2-15	15.5	2-17	15.5	2-18	16.0	2-19
22-0	16.5	2-23	16.0	2-16	16.0	2-17	16.0	2-18	16.5	2-19
23-0	17.0	2-24	16.5	2-17	16.5	2-18	17.0	2-19	17.0	2-19
24-0	17.5	2-25	17.0	2-18	17.5	2-19	17.5	2-19	17.5	2-20
25-0	18.0	2-26	17.5	2-18	18.0	2-19	18.0	2-20	18.0	2-21
26-0	19.0	2-26	19.0	2-19	19.0	2-19	19.0	2-20	19.0	2-21
27-0	19.5	2-26	19.5	2-19	19.5	2-20	19.5	2-21	19.5	2-22
28-0	20.0	2-27	20.0	2-19	20.0	2-20	20.0	2-21	20.0	2-23
29-0	21.0	2-27	21.0	2-19	21.0	2-20	21.0	2-22	21.0	2-23
30-0	21.5	2-28	21.5	2-20	21.5	2-21	21.5	2-22	21.5	2-24

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

100 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.193		0.220		0.248		0.278		0.310	
C to C Beams	7'-6"		8'-0"		8'-6"		9'-0"		9'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	8.0	2-6	..	..	..	..	..	..	..	..
8-0	8.0	2-7	8.0	2-8	..	..	..	..	..	..
8-6	8.0	2-8	8.0	2-9	8.0	2-9	..	..	..	..
9-0	8.5	2-9	8.5	2-10	8.5	2-10	8.5	2-11	..	..
9-6	8.5	2-10	8.5	2-11	8.5	2-12	8.5	2-12	8.5	2-12
10-0	9.0	2-11	9.0	2-11	9.0	2-12	9.0	2-12	9.0	2-12
10-6	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-12	9.5	2-13
11-0	9.5	2-12	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-13
11-6	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-13	10.0	2-14
12-0	10.0	2-12	10.0	2-13	10.0	2-13	10.0	2-14	10.0	2-15
12-6	10.5	2-13	10.5	2-13	10.5	2-14	10.5	2-15	10.5	2-16
13-0	10.5	2-13	10.5	2-14	10.5	2-15	10.5	2-15	10.5	2-16
13-6	11.0	2-13	11.0	2-14	11.0	2-15	11.0	2-16	11.0	2-16
14-0	11.5	2-14	11.5	2-15	11.5	2-15	11.5	2-16	11.5	2-17
14-6	11.5	2-15	11.5	2-15	11.5	2-16	11.5	2-17	11.5	2-18
15-0	12.0	2-15	12.0	2-16	12.0	2-17	12.0	2-17	12.0	2-18
15-6	12.0	2-15	12.0	2-16	12.0	2-17	12.0	2-18	12.5	2-19
16-0	12.5	2-16	12.5	2-16	12.5	2-17	12.5	2-18	13.0	2-19
16-6	13.0	2-16	13.0	2-17	13.0	2-18	13.5	2-19	13.5	2-19
17-0	13.0	2-17	13.0	2-18	13.0	2-18	13.5	2-19	13.5	2-19
17-6	13.5	2-17	13.5	2-18	14.0	2-19	14.0	2-19	14.0	2-19
18-0	13.5	2-18	13.5	2-18	14.0	2-19	14.0	2-19	14.0	2-20
18-6	14.0	2-18	14.5	2-19	14.5	2-19	14.5	2-20	14.5	2-21
19-0	14.5	2-19	14.5	2-19	14.5	2-19	14.5	2-20	14.5	2-21
19-6	15.0	2-19	15.0	2-19	15.0	2-19	15.0	2-20	15.0	2-21
20-0	15.5	2-19	15.5	2-19	15.5	2-20	15.5	2-21	15.5	2-22
21-0	16.0	2-19	16.0	2-20	16.0	2-21	16.0	2-22	16.0	2-22
22-0	16.5	2-20	16.5	2-21	16.5	2-22	16.5	2-23	16.5	2-23
23-0	17.0	2-20	17.0	2-22	17.0	2-23	17.0	2-24	17.0	2-24
24-0	17.5	2-21	17.5	2-22	17.5	2-23	17.5	2-24	17.5	2-25
25-0	18.0	2-22	18.0	2-23	18.0	2-24	18.0	2-25	18.0	2-26
26-0	19.0	2-22	19.0	2-23	19.0	2-24	19.0	2-25	19.0	2-26
27-0	19.5	2-23	19.5	2-24	19.5	2-25	19.5	2-26	19.5	2-26
28-0	20.0	2-24	20.0	2-25	20.0	2-26	20.0	2-26	20.0	2-27
29-0	21.0	2-24	21.0	2-25	21.0	2-26	21.0	2-26	21.0	2-27
30-0	21.5	2-25	21.5	2-26	21.5	2-26	21.5	2-27	21.5	2-28

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

100 Lbs.

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.343		0.379		0.099		0.120		0.143	
C to C Beams	10'-0"		10'-6"		5'-0"		5'-6"		6'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	7.0	2-4	8.0	2-5	8.0	2-6
8-0	..	..	..	..	8.0	2-5	8.0	2-6	8.0	2-7
8-6	..	..	..	..	8.0	2-6	8.0	2-7	8.0	2-8
9-0	..	..	..	..	8.5	2-7	8.5	2-8	8.5	2-9
9-6	..	..	..	..	8.5	2-8	8.5	2-9	8.5	2-10
10-0	9.0	2-13	..	..	9.0	2-8	9.0	2-9	9.0	2-10
10-6	9.5	2-13	9.5	2-14	9.5	2-8	9.5	2-9	9.5	2-10
11-0	9.5	2-14	9.5	2-15	9.5	2-9	9.5	2-10	9.5	2-11
11-6	10.0	2-15	10.0	2-15	10.0	2-10	10.0	2-11	10.0	2-11
12-0	10.0	2-16	10.0	2-16	10.0	2-10	10.0	2-11	10.0	2-12
12-6	10.5	2-16	10.5	2-17	10.5	2-11	10.5	2-12	10.5	2-12
13-0	10.5	2-17	10.5	2-18	10.5	2-11	10.5	2-12	10.5	2-12
13-6	11.0	2-17	11.0	2-18	11.0	2-11	11.0	2-12	11.0	2-12
14-0	11.5	2-18	11.5	2-18	11.5	2-12	11.5	2-12	11.5	2-13
14-6	11.5	2-18	12.0	2-19	11.5	2-12	11.5	2-13	11.5	2-14
15-0	12.5	2-19	12.5	2-19	12.0	2-12	12.0	2-13	12.0	2-14
15-6	12.5	2-19	12.5	2-19	12.0	2-12	12.0	2-13	12.0	2-14
16-0	13.0	2-19	13.0	2-19	12.5	2-12	12.5	2-13	12.5	2-15
16-6	13.5	2-19	13.5	2-20	13.0	2-13	13.0	2-14	13.0	2-15
17-0	13.5	2-20	13.5	2-21	13.0	2-13	13.0	2-14	13.0	2-16
17-6	14.0	2-20	14.0	2-21	13.5	2-13	13.5	2-15	13.5	2-16
18-0	14.0	2-21	14.0	2-22	13.5	2-14	13.5	2-15	13.5	2-16
18-6	14.5	2-21	14.5	2-22	14.0	2-15	14.0	2-16	14.0	2-17
19-0	14.5	2-22	14.5	2-23	14.0	2-15	14.0	2-16	14.0	2-17
19-6	15.0	2-22	15.0	2-23	14.5	2-15	14.5	2-16	14.5	2-17
20-0	15.5	2-23	15.5	2-23	15.0	2-15	15.0	2-17	15.0	2-18
21-0	16.0	2-23	16.0	2-24	15.5	2-16	15.5	2-17	16.0	2-19
22-0	16.5	2-24	16.5	2-25	16.0	2-17	16.0	2-18	16.5	2-19
23-0	17.0	2-25	17.0	2-26	16.5	2-18	17.0	2-19	17.0	2-19
24-0	17.5	2-26	17.5	2-26	17.0	2-18	17.5	2-19	17.5	2-20
25-0	18.0	2-26	18.0	2-27	18.0	2-19	18.0	2-19	18.0	2-21
26-0	19.0	2-26	19.0	2-27	19.0	2-19	19.0	2-20	19.0	2-21
27-0	19.5	2-27	19.5	2-28	19.5	2-19	19.5	2-20	19.5	2-22
28-0	20.0	2-28	20.0	2-29	20.0	2-20	20.0	2-21	20.0	2-22
29-0	21.0	2-28	21.0	2-29	21.0	2-20	21.0	2-21	21.0	2-23
30-0	21.5	2-29	21.5	2-30	21.5	2-20	21.5	2-22	21.5	2-23

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.168		0.195		0.224		0.254		0.287	
C to C Beams	6'-6"		7'-0"		7'-6"		8'-0"		8'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	8.0	2-7	8.0	2-7	8.0	2-8	..	..	..	..
8-0	8.0	2-8	8.0	2-8	8.0	2-9	8.0	2-9	..	..
8-6	8.0	2-9	8.0	2-9	8.0	2-10	8.0	2-10	8.0	2-11
9-0	8.5	2-10	8.5	2-10	8.5	2-11	8.5	2-11	8.5	2-12
9-6	8.5	2-10	8.5	2-11	8.5	2-12	8.5	2-12	8.5	2-12
10-0	9.0	2-11	9.0	2-11	9.0	2-12	9.0	2-12	9.0	2-12
10-6	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-13
11-0	9.5	2-12	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-14
11-6	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-14	10.0	2-15
12-0	10.0	2-12	10.0	2-13	10.0	2-14	10.0	2-15	10.0	2-15
12-6	10.5	2-13	10.5	2-13	10.5	2-14	10.5	2-15	10.5	2-16
13-0	10.5	2-13	10.5	2-14	10.5	2-15	10.5	2-16	10.5	2-17
13-6	11.0	2-13	11.0	2-14	11.0	2-15	11.0	2-16	11.0	2-17
14-0	11.5	2-14	11.5	2-15	11.5	2-16	11.5	2-17	11.5	2-17
14-6	11.5	2-15	11.5	2-16	11.5	2-16	11.5	2-17	11.5	2-18
15-0	12.0	2-15	12.0	2-16	12.0	2-17	12.0	2-18	12.5	2-19
15-6	12.0	2-15	12.0	2-16	12.0	2-17	12.0	2-18	12.5	2-19
16-0	12.5	2-16	12.5	2-17	12.5	2-17	12.5	2-18	13.0	2-19
16-6	13.0	2-16	13.0	2-17	13.0	2-18	13.5	2-19	13.5	2-19
17-0	13.0	2-17	13.0	2-18	13.5	2-19	13.5	2-19	13.5	2-20
17-6	13.5	2-17	13.5	2-18	14.0	2-19	14.0	2-19	14.0	2-20
18-0	13.5	2-18	14.0	2-19	14.0	2-19	14.0	2-20	14.0	2-21
18-6	14.0	2-18	14.5	2-19	14.5	2-19	14.5	2-20	14.5	2-21
19-0	14.5	2-19	14.5	2-19	14.5	2-20	14.5	2-21	14.5	2-22
19-6	15.0	2-19	15.0	2-19	15.0	2-20	15.0	2-21	15.0	2-22
20-0	15.5	2-19	15.5	2-19	15.5	2-20	15.5	2-21	15.5	2-22
21-0	16.0	2-19	16.0	2-20	16.0	2-21	16.0	2-22	16.0	2-23
22-0	16.5	2-20	16.5	2-21	16.5	2-22	16.5	2-23	16.5	2-24
23-0	17.0	2-21	17.0	2-22	17.0	2-23	17.0	2-24	17.0	2-25
24-0	17.5	2-21	17.5	2-23	17.5	2-24	17.5	2-25	17.5	2-26
25-0	18.0	2-22	18.0	2-23	18.0	2-25	18.0	2-26	18.0	2-26
26-0	19.0	2-22	19.0	2-24	19.0	2-25	19.0	2-26	19.0	2-26
27-0	19.5	2-23	19.5	2-24	19.5	2-26	19.5	2-26	19.5	2-27
28-0	20.0	2-24	20.0	2-25	20.0	2-26	20.0	2-26	20.0	2-28
29-0	21.0	2-24	21.0	2-25	21.0	2-26	21.0	2-27	21.0	2-28
30-0	21.5	2-25	21.5	2-26	21.5	2-26	21.5	2-28	21.5	2-29



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

125 Lbs.

150 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.322		0.358		0.397		0.091		0.113	
C to C Beams	9'-0"		9'-6"		10'-0"		4'-6"		5'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	7.0	2-3	7.0	2-4
7-6	..	..	..	..	..	..	7.0	2-4	8.0	2-5
8-0	..	..	..	..	..	..	8.0	2-5	8.0	2-6
8-6	..	..	..	..	..	..	8.0	2-6	8.0	2-7
9-0	8.5	2-12	..	..	..	..	8.5	2-7	8.5	2-8
9-6	8.5	2-13	8.5	2-14	..	..	8.5	2-8	8.5	2-9
10-0	9.0	2-13	9.0	2-14	9.0	2-15	9.0	2-8	9.0	2-9
10-6	9.5	2-14	9.5	2-15	9.5	2-15	9.5	2-9	9.5	2-10
11-0	9.5	2-15	9.5	2-15	9.5	2-16	9.5	2-9	9.5	2-10
11-6	10.0	2-15	10.0	2-16	10.0	2-17	10.0	2-10	10.0	2-11
12-0	10.0	2-16	10.0	2-17	10.5	2-17	10.0	2-10	10.0	2-11
12-6	10.5	2-17	10.5	2-18	10.5	2-18	10.5	2-11	10.5	2-12
13-0	10.5	2-17	10.5	2-18	11.0	2-18	10.5	2-11	10.5	2-12
13-6	11.0	2-18	11.0	2-18	11.5	2-19	11.0	2-12	11.0	2-12
14-0	11.5	2-18	12.0	2-19	12.0	2-19	11.5	2-12	11.5	2-12
14-6	12.0	2-19	12.0	2-19	12.5	2-19	11.5	2-12	11.5	2-13
15-0	12.5	2-19	12.5	2-19	12.5	2-20	12.0	2-12	12.0	2-13
15-6	12.5	2-19	12.5	2-20	13.0	2-20	12.0	2-12	12.0	2-14
16-0	13.0	2-19	13.0	2-20	13.5	2-21	12.5	2-13	12.5	2-14
16-6	13.5	2-20	13.5	2-21	13.5	2-21	13.0	2-13	13.0	2-14
17-0	13.5	2-20	13.5	2-21	14.0	2-22	13.0	2-13	13.0	2-15
17-6	14.0	2-21	14.0	2-22	14.0	2-22	13.5	2-14	13.5	2-15
18-0	14.0	2-22	14.0	2-22	14.5	2-23	13.5	2-14	13.5	2-16
18-6	14.5	2-22	14.5	2-23	15.0	2-23	14.0	2-15	14.0	2-16
19-0	14.5	2-23	14.5	2-24	15.0	2-24	14.0	2-15	14.0	2-17
19-6	15.0	2-23	15.0	2-24	15.5	2-24	14.5	2-16	14.5	2-17
20-0	15.5	2-23	15.5	2-24	15.5	2-25	15.0	2-16	15.0	2-17
21-0	16.0	2-24	16.0	2-25	16.5	2-26	15.5	2-16	15.5	2-18
22-0	16.5	2-25	16.5	2-26	17.0	2-26	16.0	2-17	16.5	2-19
23-0	17.0	2-26	17.0	2-26	17.5	2-27	16.5	2-18	17.0	2-19
24-0	17.5	2-26	17.5	2-26	18.0	2-27	17.5	2-19	17.5	2-19
25-0	18.0	2-27	18.0	2-28	19.0	2-28	18.0	2-19	18.0	2-20
26-0	19.0	2-27	19.0	2-28	19.5	2-29	19.0	2-19	19.0	2-20
27-0	19.5	2-28	19.5	2-29	20.5	2-30	19.5	2-19	19.5	2-21
28-0	20.0	2-29	20.0	2-30	21.0	2-30	20.0	2-20	20.0	2-22
29-0	21.0	2-29	21.0	2-30	22.0	2-31	21.0	2-20	21.0	2-22
30-0	21.5	2-30	21.5	2-31	22.5	2-31	21.5	2-21	21.5	2-22

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

150 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.137		0.162		0.191		0.221		0.254	
C to C Beams	5'-6"		6'-0"		6'-6"		7'-0"		7'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	8.0	2-5	8.0	2-6	8.0	2-7	8.0	2-8	. .	. .
7-6	8.0	2-6	8.0	2-7	8.0	2-8	8.0	2-9	8.0	2-9
8-0	8.0	2-7	8.0	2-8	8.0	2-9	8.0	2-10	8.0	2-10
8-6	8.0	2-8	8.0	2-9	8.0	2-10	8.0	2-11	8.0	2-11
9-0	8.5	2-9	8.5	2-10	8.5	2-11	8.5	2-12	8.5	2-12
9-6	8.5	2-10	8.5	2-11	8.5	2-12	8.5	2-12	8.5	2-12
10-0	9.0	2-10	9.0	2-11	9.0	2-12	9.0	2-12	9.0	2-13
10-6	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-12	9.5	2-13
11-0	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-14
11-6	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-14	10.0	2-15
12-0	10.0	2-12	10.0	2-13	10.0	2-13	10.0	2-14	10.0	2-15
12-6	10.5	2-12	10.5	2-13	10.5	2-14	10.5	2-15	10.5	2-16
13-0	10.5	2-13	10.5	2-14	10.5	2-15	10.5	2-16	10.5	2-17
13-6	11.0	2-13	11.0	2-14	11.0	2-15	11.0	2-16	11.0	2-17
14-0	11.5	2-13	11.5	2-14	11.5	2-15	11.5	2-16	11.5	2-17
14-6	11.5	2-14	11.5	2-15	11.5	2-16	11.5	2-17	11.5	2-18
15-0	12.0	2-14	12.0	2-16	12.0	2-17	12.0	2-18	12.5	2-19
15-6	12.0	2-15	12.0	2-16	12.0	2-17	12.0	2-18	12.5	2-19
16-0	12.5	2-15	12.5	2-16	12.5	2-17	12.5	2-18	13.0	2-19
16-6	13.0	2-16	13.0	2-17	13.0	2-18	13.5	2-19	13.5	2-19
17-0	13.0	2-16	13.0	2-17	13.0	2-18	13.5	2-19	13.5	2-20
17-6	13.5	2-16	13.5	2-18	14.0	2-19	14.0	2-19	14.0	2-20
18-0	13.5	2-17	13.5	2-18	14.0	2-19	14.0	2-20	14.0	2-21
18-6	14.0	2-17	14.5	2-19	14.5	2-19	14.5	2-20	14.5	2-21
19-0	14.0	2-18	14.5	2-19	14.5	2-19	14.5	2-21	14.5	2-22
19-6	14.5	2-18	15.0	2-19	15.0	2-20	15.0	2-21	15.0	2-22
20-0	15.0	2-18	15.5	2-19	15.5	2-20	15.5	2-21	15.5	2-22
21-0	16.0	2-19	16.0	2-19	16.0	2-21	16.0	2-22	16.0	2-23
22-0	16.5	2-19	16.5	2-20	16.5	2-22	16.5	2-23	16.5	2-24
23-0	17.0	2-20	17.0	2-21	17.0	2-23	17.0	2-24	17.0	2-25
24-0	17.5	2-21	17.5	2-22	17.5	2-23	17.5	2-25	17.5	2-26
25-0	18.0	2-21	18.0	2-23	18.0	2-24	18.0	2-26	18.0	2-26
26-0	19.0	2-22	19.0	2-23	19.0	2-24	19.0	2-26	19.0	2-26
27-0	19.5	2-22	19.5	2-24	19.5	2-25	19.5	2-26	19.5	2-27
28-0	20.0	2-23	20.0	2-25	20.0	2-26	20.0	2-26	20.0	2-28
29-0	21.0	2-23	21.0	2-25	21.0	2-26	21.0	2-27	21.0	2-28
30-0	21.5	2-24	21.5	2-26	21.5	2-26	21.5	2-27	21.5	2-29

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

150 Lbs.

200 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.289		0.326		0.365		0.089		0.113	
C to C Beams	8'-0"		8'-6"		9'-0"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	7.0	2-2	7.0	2-3
6-6	..	..	..	..	..	..	7.0	2-3	7.0	2-4
7-0	..	..	..	..	..	..	7.0	2-4	8.0	2-5
7-6	..	..	..	..	..	..	8.0	2-5	8.0	2-6
8-0	8.0	2-11	..	..	..	..	8.0	2-6	8.0	2-7
8-6	8.0	2-12	8.0	2-12	..	..	8.0	2-7	8.0	2-8
9-0	8.5	2-12	8.5	2-13	8.5	2-13	8.5	2-8	8.5	2-9
9-6	8.5	2-13	8.5	2-14	9.0	2-14	8.5	2-9	8.5	2-10
10-0	9.0	2-13	9.0	2-14	9.0	2-15	8.5	2-9	8.5	2-11
10-6	9.5	2-14	9.5	2-15	9.5	2-15	9.5	2-10	9.5	2-11
11-0	9.5	2-15	9.5	2-16	9.5	2-16	9.5	2-10	9.5	2-11
11-6	10.0	2-15	10.0	2-16	10.0	2-16	10.0	2-11	10.0	2-12
12-0	10.0	2-16	10.0	2-17	10.5	2-17	10.0	2-11	10.0	2-12
12-6	10.5	2-17	10.5	2-18	10.5	2-18	10.5	2-12	10.5	2-12
13-0	10.5	2-18	10.5	2-18	11.0	2-18	10.5	2-12	10.5	2-13
13-6	11.0	2-18	11.5	2-19	11.5	2-19	11.0	2-12	11.0	2-13
14-0	11.5	2-18	12.0	2-19	12.0	2-19	11.5	2-12	11.5	2-14
14-6	12.0	2-19	12.0	2-19	12.5	2-19	11.5	2-13	11.5	2-14
15-0	12.5	2-19	12.5	2-20	12.5	2-20	12.0	2-13	12.0	2-15
15-6	12.5	2-19	12.5	2-20	13.0	2-20	12.0	2-14	12.0	2-15
16-0	13.0	2-19	13.0	2-20	13.0	2-21	12.5	2-14	12.5	2-15
16-6	13.5	2-20	13.5	2-21	13.5	2-21	13.0	2-14	13.0	2-16
17-0	13.5	2-21	13.5	2-22	14.0	2-22	13.0	2-15	13.0	2-16
17-6	14.0	2-21	14.0	2-22	14.0	2-22	13.5	2-15	13.5	2-17
18-0	14.0	2-22	14.0	2-23	14.5	2-23	13.5	2-16	13.5	2-17
18-6	14.5	2-22	14.5	2-23	15.0	2-23	14.0	2-16	14.0	2-18
19-0	14.5	2-23	14.5	2-24	15.0	2-23	14.0	2-17	14.0	2-18
19-6	15.0	2-23	15.0	2-24	15.5	2-24	14.5	2-17	14.5	2-18
20-0	15.5	2-23	15.5	2-24	15.5	2-25	15.0	2-17	15.5	2-19
21-0	16.0	2-24	16.0	2-25	16.0	2-25	15.5	2-18	16.0	2-19
22-0	16.5	2-25	16.5	2-26	17.0	2-26	16.0	2-18	16.5	2-19
23-0	17.0	2-26	17.0	2-26	17.5	2-27	17.0	2-19	17.0	2-20
24-0	17.5	2-26	17.5	2-27	18.0	2-27	17.5	2-19	17.5	2-21
25-0	18.0	2-27	18.0	2-28	18.5	2-28	18.0	2-20	18.0	2-22
26-0	19.0	2-27	19.0	2-29	19.5	2-29	19.0	2-20	19.0	2-22
27-0	19.5	2-28	19.5	2-29	20.5	2-30	19.5	2-21	19.5	2-23
28-0	20.0	2-29	20.0	2-30	21.0	2-30	20.0	2-21	20.0	2-23
29-0	21.0	2-29	21.0	2-31	21.5	2-31	21.0	2-22	21.0	2-24
30-0	21.5	2-30	21.5	2-31	22.5	2-31	21.5	2-22	21.5	2-24

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

200 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.140		0.169		0.201		0.236		0.274	
C to C Beams	5'-0"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	7.0	2-4	8.0	2-5	8.0	2-6	8.0	2-7	.	.
6-6	8.0	2-5	8.0	2-6	8.0	2-7	8.0	2-8	.	.
7-0	8.0	2-6	8.0	2-7	8.0	2-8	8.0	2-9	8.5	2-9
7-6	8.0	2-7	8.0	2-8	8.0	2-9	8.0	2-10	8.5	2-10
8-0	8.0	2-8	8.0	2-9	8.0	2-10	8.0	2-11	8.5	2-11
8-6	8.0	2-9	8.0	2-10	8.0	2-11	8.0	2-12	8.5	2-12
9-0	8.5	2-10	8.5	2-11	8.5	2-12	8.5	2-12	8.5	2-13
9-6	8.5	2-11	8.5	2-12	8.5	2-12	8.5	2-13	9.0	2-14
10-0	8.5	2-11	8.5	2-12	8.5	2-12	8.5	2-13	9.5	2-15
10-6	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-15
11-0	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-15	9.5	2-16
11-6	10.0	2-12	10.0	2-13	10.0	2-15	10.0	2-16	10.0	2-16
12-0	10.0	2-13	10.0	2-14	10.0	2-15	10.0	2-16	10.5	2-17
12-6	10.5	2-14	10.5	2-15	10.5	2-16	10.5	2-17	10.5	2-18
13-0	10.5	2-14	10.5	2-15	10.5	2-16	10.5	2-18	11.0	2-18
13-6	11.0	2-14	11.0	2-16	11.0	2-17	11.0	2-18	11.5	2-19
14-0	11.5	2-15	11.5	2-16	11.5	2-17	11.5	2-18	12.0	2-19
14-6	11.5	2-16	11.5	2-17	11.5	2-18	12.0	2-19	12.5	2-19
15-0	12.0	2-16	12.0	2-17	12.0	2-18	12.5	2-19	12.5	2-20
15-6	12.0	2-16	12.0	2-18	12.5	2-19	12.5	2-19	13.0	2-20
16-0	12.5	2-17	12.5	2-18	13.0	2-19	13.0	2-19	13.0	2-21
16-6	13.0	2-17	13.0	2-18	13.5	2-19	13.5	2-20	13.5	2-21
17-0	13.0	2-18	13.5	2-19	13.5	2-19	13.5	2-21	14.0	2-22
17-6	13.5	2-18	14.0	2-19	14.0	2-20	14.0	2-21	14.0	2-22
18-0	14.0	2-19	14.0	2-19	14.0	2-20	14.0	2-22	14.5	2-23
18-6	14.5	2-19	14.5	2-20	14.5	2-21	14.5	2-22	14.5	2-23
19-0	14.5	2-19	14.5	2-20	14.5	2-22	14.5	2-23	15.0	2-23
19-6	15.0	2-19	15.0	2-20	15.0	2-22	15.0	2-23	15.5	2-24
20-0	15.5	2-19	15.5	2-21	15.5	2-22	15.5	2-23	15.5	2-25
21-0	16.0	2-20	16.0	2-21	16.0	2-23	16.0	2-24	16.0	2-25
22-0	16.5	2-21	16.5	2-22	16.5	2-24	16.5	2-25	17.0	2-26
23-0	17.0	2-22	17.0	2-23	17.0	2-25	17.0	2-26	17.5	2-27
24-0	17.5	2-23	17.5	2-24	17.5	2-26	17.5	2-26	18.0	2-27
25-0	18.0	2-23	18.0	2-25	18.0	2-26	18.0	2-27	19.0	2-28
26-0	19.0	2-24	19.0	2-25	19.0	2-26	19.0	2-27	19.5	2-29
27-0	19.5	2-24	19.5	2-26	19.5	2-27	19.5	2-28	20.0	2-29
28-0	20.0	2-25	20.0	2-26	20.0	2-28	20.0	2-29	21.0	2-30
29-0	21.0	2-25	21.0	2-26	21.0	2-28	21.0	2-29	21.5	2-31
30-0	21.5	2-26	21.5	2-27	21.5	2-29	21.5	2-30	22.5	2-31

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

200 Lbs.

250 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.314		0.357		0.082		0.107		0.135	
C to C Beams	7'-6"		8'-0"		8'-6"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	7.0	2-3	7.0	2-4	8.0	2-5
6-6	. .	. .	. .	. .	7.0	2-4	8.0	2-5	8.0	2-6
7-0	. .	. .	. .	. .	8.0	2-5	8.0	2-6	8.0	2-7
7-6	8.5	2-11	. .	. .	8.0	2-6	8.0	2-7	8.0	2-8
8-0	8.5	2-12	8.5	2-13	8.0	2-7	8.0	2-8	8.0	2-9
8-6	8.5	2-13	8.5	2-13	8.0	2-8	8.0	2-9	8.0	2-10
9-0	8.5	2-14	9.0	2-14	8.5	2-8	8.5	2-10	8.5	2-11
9-6	9.0	2-15	9.0	2-15	8.5	2-9	8.5	2-11	8.5	2-12
10-0	9.5	2-15	9.5	2-16	8.5	2-9	8.5	2-11	8.5	2-12
10-6	9.5	2-16	10.0	2-16	9.5	2-10	9.5	2-11	9.5	2-12
11-0	10.0	2-16	10.0	2-17	9.5	2-11	9.5	2-12	9.5	2-12
11-6	10.0	2-17	10.5	2-17	10.0	2-11	10.0	2-12	10.0	2-13
12-0	10.5	2-17	11.0	2-18	10.0	2-12	10.0	2-12	10.0	2-14
12-6	11.0	2-18	11.5	2-19	10.5	2-12	10.5	2-13	10.5	2-14
13-0	11.5	2-19	12.0	2-19	10.5	2-12	10.5	2-13	10.5	2-15
13-6	12.0	2-19	12.0	2-19	11.0	2-12	11.0	2-14	11.0	2-15
14-0	12.0	2-19	12.5	2-20	11.5	2-13	11.5	2-14	11.5	2-16
14-6	12.5	2-20	13.0	2-20	11.5	2-13	11.5	2-15	11.5	2-17
15-0	13.0	2-20	13.0	2-21	12.0	2-14	12.0	2-15	12.0	2-17
15-6	13.0	2-21	13.5	2-21	12.0	2-14	12.0	2-16	12.0	2-17
16-0	13.5	2-21	14.0	2-22	12.5	2-14	12.5	2-16	12.5	2-18
16-6	14.0	2-22	14.0	2-22	13.0	2-15	13.0	2-17	13.0	2-18
17-0	14.0	2-22	14.5	2-23	13.0	2-15	13.0	2-17	13.5	2-19
17-6	14.5	2-23	15.0	2-23	13.5	2-16	13.5	2-17	14.0	2-19
18-0	15.0	2-23	15.0	2-24	13.5	2-16	13.5	2-18	14.0	2-19
18-6	15.0	2-24	15.5	2-24	14.0	2-17	14.0	2-18	14.5	2-19
19-0	15.5	2-24	16.0	2-25	14.0	2-17	14.5	2-19	14.5	2-20
19-6	15.5	2-25	16.0	2-25	14.5	2-17	15.0	2-19	15.0	2-20
20-0	16.0	2-25	16.5	2-26	15.0	2-18	15.5	2-19	15.5	2-20
21-0	16.5	2-26	17.0	2-26	15.5	2-18	16.0	2-19	16.0	2-21
22-0	17.5	2-27	17.5	2-27	16.5	2-19	16.5	2-20	16.5	2-22
23-0	18.0	2-27	18.0	2-27	17.0	2-19	17.0	2-21	17.0	2-23
24-0	18.5	2-28	19.0	2-28	17.5	2-20	17.5	2-22	17.5	2-24
25-0	19.5	2-29	20.0	2-29	18.0	2-20	18.0	2-23	18.0	2-25
26-0	20.0	2-29	21.0	2-30	19.0	2-21	19.0	2-23	19.0	2-25
27-0	21.0	2-30	21.5	2-31	19.5	2-21	19.5	2-24	19.5	2-26
28-0	21.5	2-31	22.5	2-31	20.0	2-22	20.0	2-24	20.0	2-26
29-0	22.5	2-31	23.5	2-32	21.0	2-22	21.0	2-25	21.0	2-26
30-0	23.5	2-32	24.5	2-32	21.5	2-23	21.5	2-25	21.5	2-26

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

250 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.167		0.201		0.240		0.281		0.326	
C to C Beams	5'-0"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	8.0	2-6	8.0	2-7	8.5	2-8	. .	. .	. .	. .
6-6	8.0	2-7	8.0	2-8	8.5	2-9	8.5	2-9	. .	. .
7-0	8.0	2-8	8.0	2-9	8.5	2-10	8.5	2-10	8.5	2-11
7-6	8.0	2-9	8.0	2-10	8.5	2-11	8.5	2-11	8.5	2-12
8-0	8.0	2-10	8.0	2-11	8.5	2-12	8.5	2-12	8.5	2-13
8-6	8.0	2-11	8.0	2-12	8.5	2-13	8.5	2-13	9.0	2-14
9-0	8.5	2-12	8.5	2-12	8.5	2-14	9.0	2-14	9.0	2-15
9-6	8.5	2-12	8.5	2-13	9.0	2-14	9.0	2-15	9.5	2-15
10-0	8.5	2-12	8.5	2-13	9.0	2-15	9.5	2-15	9.5	2-16
10-6	9.5	2-13	9.5	2-14	9.5	2-15	10.0	2-16	10.0	2-16
11-0	9.5	2-14	9.5	2-15	10.0	2-16	10.0	2-17	10.5	2-17
11-6	10.0	2-14	10.0	2-16	10.0	2-17	10.5	2-17	10.5	2-17
12-0	10.0	2-15	10.0	2-16	10.5	2-17	11.0	2-18	11.0	2-18
12-6	10.5	2-16	10.5	2-17	10.5	2-18	12.0	2-18	12.0	2-19
13-0	10.5	2-16	10.5	2-18	11.0	2-18	12.0	2-19	12.0	2-19
13-6	11.0	2-17	11.0	2-18	11.5	2-19	12.5	2-19	12.5	2-19
14-0	11.5	2-17	12.0	2-19	12.0	2-19	12.5	2-19	12.5	2-20
14-6	11.5	2-18	12.0	2-19	12.5	2-19	13.0	2-20	13.0	2-21
15-0	12.0	2-18	12.5	2-19	12.5	2-20	13.0	2-21	13.5	2-21
15-6	12.5	2-19	12.5	2-19	13.0	2-20	13.5	2-21	13.5	2-21
16-0	13.0	2-19	13.0	2-20	13.5	2-21	13.5	2-21	14.0	2-22
16-6	13.5	2-19	13.5	2-20	13.5	2-21	14.0	2-22	14.5	2-23
17-0	13.5	2-19	13.5	2-21	14.0	2-22	14.5	2-23	14.5	2-23
17-6	14.0	2-20	14.0	2-21	14.0	2-22	14.5	2-23	15.0	2-24
18-0	14.0	2-20	14.0	2-22	14.5	2-23	15.0	2-23	15.5	2-24
18-6	14.5	2-21	14.5	2-22	15.0	2-23	15.5	2-24	15.5	2-25
19-0	14.5	2-21	14.5	2-23	15.0	2-24	15.5	2-25	16.0	2-25
19-6	15.0	2-22	15.0	2-23	15.5	2-24	16.0	2-25	16.5	2-26
20-0	15.5	2-22	15.5	2-24	15.5	2-25	16.0	2-25	16.5	2-26
21-0	16.0	2-23	16.0	2-24	16.5	2-26	17.0	2-26	17.5	2-27
22-0	16.5	2-24	16.5	2-25	17.0	2-26	17.5	2-27	18.0	2-27
23-0	17.0	2-25	17.0	2-26	17.5	2-27	18.0	2-27	18.5	2-28
24-0	17.5	2-26	17.5	2-26	18.0	2-27	19.0	2-28	19.5	2-29
25-0	18.0	2-26	18.0	2-27	19.0	2-28	19.5	2-29	20.5	2-30
26-0	19.0	2-26	19.0	2-28	19.5	2-29	20.5	2-30	21.0	2-30
27-0	19.5	2-27	19.5	2-29	20.5	2-30	21.0	2-30	22.0	2-31
28-0	20.0	2-27	20.0	2-29	21.0	2-30	22.0	2-31	23.0	2-31
29-0	21.0	2-28	21.0	2-30	22.0	2-31	23.0	2-31	24.5	2-32
30-0	21.5	2-28	21.5	2-30	23.0	2-31	23.5	2-32	24.5	2-32

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

250 Lbs.

300 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.374		0.070		0.095		0.124		0.157	
C to C Beams	7'-6"		3'-0"		3'-0"		4'-0"		4'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	7.0	2-2	7.0	2-4	8.0	2-5	8.0	2-6
6-6	. .	. .	7.0	2-3	8.0	2-5	8.0	2-6	8.0	2-7
7-0	. .	. .	7.0	2-4	8.0	2-6	8.0	2-7	8.0	2-8
7-6	8.5	2-13	8.0	2-5	8.0	2-7	8.0	2-8	8.0	2-9
8-0	8.5	2-14	8.0	2-6	8.0	2-8	8.0	2-9	8.0	2-10
8-6	9.0	2-15	8.0	2-7	8.0	2-9	8.0	2-10	8.0	2-11
9-0	9.0	2-16	8.5	2-8	8.5	2-10	8.5	2-11	8.5	2-12
9-6	9.5	2-16	8.5	2-9	8.5	2-11	8.5	2-12	8.5	2-13
10-0	10.0	2-16	9.0	2-9	9.0	2-11	9.0	2-12	9.0	2-13
10-6	10.0	2-17	9.5	2-10	9.5	2-12	9.5	2-12	9.5	2-14
11-0	10.5	2-18	9.5	2-11	9.5	2-12	9.5	2-13	9.5	2-14
11-6	11.0	2-18	10.0	2-11	10.0	2-12	10.0	2-13	10.0	2-15
12-0	11.5	2-19	10.0	2-12	10.0	2-13	10.0	2-14	10.0	2-16
12-6	12.0	2-19	10.5	2-12	10.5	2-13	10.5	2-15	10.5	2-16
13-0	12.5	2-19	10.5	2-12	10.5	2-14	10.5	2-15	10.5	2-17
13-6	12.5	2-20	11.0	2-12	11.0	2-14	11.0	2-16	11.0	2-17
14-0	13.0	2-21	11.5	2-13	11.5	2-14	11.5	2-16	11.5	2-18
14-6	13.5	2-21	11.5	2-13	11.5	2-15	11.5	2-17	12.0	2-19
15-0	13.5	2-21	12.0	2-14	12.0	2-16	12.0	2-17	12.5	2-19
15-6	14.0	2-22	12.0	2-14	12.0	2-16	12.0	2-18	12.5	2-19
16-0	14.5	2-23	12.5	2-14	12.5	2-16	12.5	2-18	13.0	2-19
16-6	14.5	2-23	13.0	2-15	13.0	2-17	13.5	2-19	13.5	2-19
17-0	15.0	2-24	13.0	2-15	13.0	2-17	13.5	2-19	13.5	2-20
17-6	15.5	2-24	13.5	2-16	13.5	2-18	14.0	2-19	14.0	2-20
18-0	16.0	2-25	13.5	2-16	13.5	2-18	14.0	2-19	14.0	2-21
18-6	16.0	2-25	14.0	2-17	14.5	2-19	14.5	2-20	14.5	2-22
19-0	16.5	2-26	14.0	2-17	14.5	2-19	14.5	2-20	14.5	2-22
19-6	17.0	2-26	14.5	2-17	15.0	2-19	15.0	2-20	15.0	2-22
20-0	17.0	2-26	15.0	2-18	15.5	2-19	15.5	2-21	15.5	2-23
21-0	18.0	2-27	15.5	2-18	16.0	2-19	16.0	2-22	16.0	2-24
22-0	18.5	2-28	16.5	2-19	16.5	2-20	16.5	2-23	16.5	2-25
23-0	19.5	2-29	17.0	2-19	17.0	2-21	17.0	2-23	17.0	2-26
24-0	20.0	2-29	17.5	2-20	17.5	2-22	17.5	2-24	17.5	2-26
25-0	21.0	2-30	18.0	2-20	18.0	2-23	18.0	2-25	18.0	2-26
26-0	22.0	2-31	19.0	2-21	19.0	2-23	19.0	2-25	19.0	2-27
27-0	23.0	2-31	19.5	2-21	19.5	2-24	19.5	2-26	19.5	2-27
28-0	23.5	2-32	20.0	2-22	20.0	2-25	20.0	2-26	20.0	2-28
29-0	24.5	2-32	21.0	2-22	21.0	2-25	21.0	2-26	21.0	2-29
30-0	25.5	2-33	21.5	2-23	21.5	2-26	21.5	2-27	21.5	2-29

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

300 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.193		0.234		0.278		0.327		0.379	
C to C Beams	5'-0"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	8.5	2-7	8.5	2-8	8.5	2-8	. .	. .	. .	. .
6-6	8.5	2-8	8.5	2-9	8.5	2-9	8.5	2-11	. .	. .
7-0	8.5	2-9	8.5	2-10	8.5	2-10	8.5	2-12	8.0	2-12
7-6	8.5	2-10	8.5	2-11	8.5	2-11	8.5	2-13	8.5	2-13
8-0	8.5	2-11	8.5	2-12	8.5	2-12	8.5	2-14	9.0	2-14
8-6	8.5	2-12	8.5	2-13	8.5	2-13	9.0	2-15	9.0	2-15
9-0	8.5	2-13	8.5	2-14	9.0	2-14	9.0	2-16	9.5	2-16
9-6	9.0	2-14	9.0	2-15	9.5	2-15	9.5	2-16	10.0	2-17
10-0	9.0	2-15	9.5	2-15	9.5	2-16	10.0	2-16	10.0	2-17
10-6	9.5	2-15	9.5	2-16	10.0	2-16	10.0	2-17	10.5	2-17
11-0	9.5	2-16	10.0	2-16	10.5	2-17	10.5	2-18	11.0	2-18
11-6	10.0	2-16	10.5	2-17	10.5	2-18	11.0	2-18	11.5	2-19
12-0	10.0	2-17	10.5	2-18	11.0	2-18	11.5	2-19	12.0	2-19
12-6	10.5	2-18	11.0	2-18	11.5	2-19	12.0	2-19	12.5	2-19
13-0	11.0	2-18	11.5	2-19	12.0	2-19	12.5	2-19	12.5	2-20
13-6	11.5	2-19	11.5	2-19	12.5	2-19	12.5	2-20	13.0	2-21
14-0	12.0	2-19	12.5	2-19	12.5	2-20	13.0	2-21	13.5	2-21
14-6	12.0	2-19	12.5	2-20	13.0	2-21	13.5	2-21	14.0	2-22
15-0	12.5	2-20	13.0	2-20	13.5	2-21	14.0	2-22	14.0	2-22
15-6	13.0	2-20	13.5	2-21	13.5	2-21	14.0	2-22	14.5	2-23
16-0	13.0	2-21	13.5	2-21	14.0	2-22	14.5	2-23	15.0	2-23
16-6	13.5	2-21	14.0	2-22	14.5	2-23	15.0	2-23	15.0	2-24
17-0	13.5	2-21	14.0	2-22	14.5	2-23	15.0	2-24	15.5	2-25
17-6	14.0	2-22	14.5	2-23	15.0	2-23	15.5	2-25	16.0	2-25
18-0	14.5	2-23	15.0	2-23	15.5	2-24	16.0	2-25	16.0	2-25
18-6	14.5	2-23	15.0	2-24	15.5	2-25	16.0	2-25	16.5	2-26
19-0	15.0	2-23	15.5	2-24	16.0	2-25	16.5	2-26	17.0	2-26
19-6	15.0	2-24	16.0	2-25	16.5	2-26	17.0	2-26	17.5	2-27
20-0	15.5	2-25	16.0	2-25	16.5	2-26	17.0	2-26	17.5	2-27
21-0	16.0	2-25	16.5	2-26	17.5	2-27	18.0	2-27	18.5	2-28
22-0	16.5	2-26	17.5	2-27	18.0	2-27	18.5	2-28	19.5	2-29
23-0	17.5	2-27	18.0	2-27	19.0	2-28	19.5	2-29	20.0	2-29
24-0	18.0	2-27	19.0	2-28	19.5	2-29	20.5	2-30	21.0	2-30
25-0	18.5	2-28	19.5	2-29	20.5	2-30	21.0	2-30	21.5	2-31
26-0	19.5	2-29	20.5	2-30	21.0	2-30	22.0	2-31	23.0	2-31
27-0	20.0	2-29	21.0	2-30	22.0	2-31	22.5	2-31	24.5	2-32
28-0	21.0	2-30	22.0	2-31	23.0	2-31	24.5	2-32	24.5	2-32
29-0	21.5	2-31	22.5	2-31	23.5	2-32	24.5	2-32	25.5	2-33
30-0	22.5	2-31	23.5	2-32	24.5	2-32	25.5	2-33	27.5	2-34



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

350 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.079		0.108		0.141		0.178		0.220	
C to C Beams	3'-0"		3'-6"		4'-0"		4'-6"		5'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	7.0	2-4	8.0	2-5	8.0	2-6	8.5	2-7	8.5	2-8
6-6	8.0	2-5	8.0	2-6	8.0	2-7	8.5	2-8	8.5	2-9
7-0	8.0	2-6	8.0	2-7	8.0	2-8	8.5	2-9	8.5	2-10
7-6	8.0	2-7	8.0	2-8	8.0	2-9	8.5	2-10	8.5	2-11
8-0	8.0	2-8	8.0	2-9	8.0	2-10	8.5	2-11	8.5	2-12
8-6	8.0	2-9	8.0	2-10	8.0	2-11	8.5	2-12	8.5	2-13
9-0	8.5	2-10	8.5	2-11	8.5	2-12	8.5	2-13	9.0	2-14
9-6	8.5	2-11	8.5	2-12	8.5	2-13	9.0	2-14	9.0	2-15
10-0	9.0	2-11	9.0	2-12	9.0	2-13	9.0	2-15	9.5	2-15
10-6	9.5	2-11	9.5	2-12	9.5	2-14	9.5	2-15	10.0	2-16
11-0	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-16	10.0	2-17
11-6	10.0	2-12	10.0	2-13	10.0	2-15	10.0	2-17	10.5	2-17
12-0	10.0	2-12	10.0	2-14	10.0	2-16	10.5	2-17	10.5	2-18
12-6	10.5	2-13	10.5	2-15	10.5	2-17	10.5	2-18	11.5	2-19
13-0	10.5	2-13	10.5	2-15	10.5	2-17	11.0	2-18	12.0	2-19
13-6	11.0	2-14	11.0	2-16	11.0	2-17	11.5	2-19	12.0	2-19
14-0	11.5	2-14	11.5	2-16	11.5	2-18	12.0	2-19	12.5	2-19
14-6	11.5	2-15	11.5	2-17	12.0	2-19	12.5	2-19	13.0	2-20
15-0	12.0	2-15	12.0	2-17	12.5	2-19	12.5	2-20	13.0	2-21
15-6	12.0	2-16	12.0	2-18	12.5	2-19	13.0	2-20	13.5	2-21
16-0	12.5	2-16	12.5	2-18	13.0	2-19	13.5	2-21	13.5	2-21
16-6	13.0	2-16	13.5	2-19	13.5	2-20	13.5	2-21	14.0	2-22
17-0	13.0	2-17	13.5	2-19	13.5	2-20	14.0	2-22	14.5	2-23
17-6	13.5	2-17	14.0	2-19	14.0	2-21	14.0	2-22	14.5	2-23
18-0	13.5	2-18	14.0	2-19	14.0	2-21	14.5	2-23	15.0	2-24
18-6	14.0	2-18	14.5	2-20	14.5	2-22	15.0	2-23	15.5	2-24
19-0	14.5	2-19	14.5	2-20	14.5	2-22	15.0	2-24	15.5	2-25
19-6	15.0	2-19	15.0	2-20	15.0	2-23	15.5	2-24	16.0	2-25
20-0	15.5	2-19	15.5	2-21	15.5	2-23	15.5	2-25	16.5	2-26
21-0	16.0	2-19	16.0	2-21	16.0	2-24	16.5	2-26	17.0	2-26
22-0	16.5	2-20	16.5	2-22	16.5	2-25	17.0	2-26	17.5	2-27
23-0	17.0	2-21	17.0	2-23	17.0	2-26	17.5	2-27	18.5	2-28
24-0	17.5	2-22	17.5	2-24	17.5	2-26	18.0	2-27	19.0	2-28
25-0	18.0	2-22	18.0	2-25	18.0	2-27	19.0	2-28	20.0	2-29
26-0	19.0	2-23	19.0	2-25	19.0	2-27	19.5	2-29	20.5	2-30
27-0	19.5	2-23	19.5	2-26	19.5	2-28	20.5	2-30	21.5	2-31
28-0	20.0	2-24	20.0	2-26	20.0	2-29	21.0	2-30	22.0	2-31
29-0	21.0	2-24	21.0	2-26	21.0	2-29	22.0	2-31	23.0	2-31
30-0	21.5	2-25	21.5	2-27	21.5	2-30	22.5	2-31	24.5	2-32

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

350 Lbs.

400 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.266		0.316		0.371		0.089		0.121	
C to C Beams	5'-6"		6'-0"		6'-6"		3'-0"		3'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	8.5	2-9	8.5	2-10			8.0	2-5	8.0	2-6
6-6	8.5	2-10	8.5	2-11	8.5	2-11	8.0	2-6	8.0	2-7
7-0	8.5	2-11	8.5	2-12	8.5	2-12	8.0	2-7	8.0	2-8
7-6	8.5	2-12	8.5	2-13	8.5	2-13	8.0	2-8	8.0	2-9
8-0	8.5	2-13	8.5	2-14	9.0	2-14	8.0	2-9	8.0	2-10
8-6	9.0	2-14	9.0	2-15	9.5	2-15	8.0	2-10	8.0	2-11
9-0	9.0	2-15	9.5	2-16	10.0	2-16	8.5	2-11	8.5	2-12
9-6	9.5	2-15	9.5	2-16	10.0	2-17	8.5	2-12	8.5	2-13
10-0	10.0	2-16	10.0	2-17	10.5	2-17	9.0	2-12	9.0	2-13
10-6	10.0	2-17	10.5	2-17	11.0	2-18	9.5	2-12	9.5	2-14
11-0	10.5	2-17	10.5	2-18	11.5	2-19	9.5	2-12	9.5	2-14
11-6	11.0	2-18	11.5	2-19	12.0	2-19	10.0	2-13	10.0	2-15
12-0	11.5	2-19	12.5	2-19	12.5	2-19	10.0	2-14	10.0	2-16
12-6	12.0	2-19	12.5	2-19	12.5	2-20	10.5	2-14	10.5	2-16
13-0	12.0	2-19	12.5	2-20	13.0	2-20	10.5	2-15	10.5	2-17
13-6	12.5	2-20	13.0	2-20	13.5	2-21	11.0	2-15	11.0	2-17
14-0	13.0	2-20	13.5	2-21	13.5	2-21	11.5	2-16	11.5	2-18
14-6	13.0	2-21	13.5	2-21	14.0	2-22	11.5	2-16	12.0	2-19
15-0	13.5	2-21	14.0	2-22	14.5	2-23	12.0	2-17	12.5	2-19
15-6	14.0	2-22	14.5	2-23	15.0	2-23	12.0	2-17	12.5	2-19
16-0	14.0	2-22	14.5	2-23	15.0	2-24	12.5	2-17	13.0	2-19
16-6	14.5	2-23	15.0	2-24	15.5	2-25	13.0	2-18	13.5	2-19
17-0	15.0	2-23	15.5	2-24	16.0	2-25	13.5	2-19	13.5	2-20
17-6	15.0	2-24	15.5	2-25	16.0	2-25	14.0	2-19	14.0	2-20
18-0	15.5	2-25	16.0	2-25	16.5	2-26	14.0	2-19	14.0	2-21
18-6	16.0	2-25	16.5	2-26	17.0	2-26	14.5	2-19	14.5	2-22
19-0	16.0	2-25	17.0	2-26	17.5	2-27	14.5	2-20	14.5	2-22
19-6	16.5	2-26	17.0	2-26	18.0	2-27	15.0	2-20	15.0	2-22
20-0	17.0	2-26	17.5	2-27	18.0	2-27	15.5	2-20	15.5	2-23
21-0	17.5	2-27	18.5	2-28	19.0	2-28	16.0	2-21	16.0	2-23
22-0	18.5	2-28	19.0	2-28	19.5	2-29	16.5	2-22	16.5	2-24
23-0	19.0	2-28	20.0	2-29	20.5	2-30	17.0	2-23	17.0	2-25
24-0	20.0	2-29	20.5	2-30	21.5	2-31	17.5	2-24	17.5	2-26
25-0	20.5	2-30	21.5	2-31	22.5	2-31	18.0	2-24	18.0	2-26
26-0	21.5	2-31	22.5	2-31	23.5	2-32	19.0	2-25	19.0	2-27
27-0	22.5	2-31	23.5	2-32	24.5	2-32	19.5	2-25	19.5	2-27
28-0	23.5	2-32	24.5	2-32	25.5	2-33	20.0	2-26	20.0	2-28
29-0	24.5	2-32	25.5	2-33	26.5	2-33	21.0	2-26	21.0	2-28
30-0	25.5	2-33	26.5	2-33	27.5	2-34	21.5	2-26	21.5	2-29

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5-inch Slab

Safe Live Load in Pounds per Square Foot

400 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.158		0.200		0.217		0.299		0.356	
C to C Beams	4'-0"		4'-6"		5'-0"		5'-6"		6'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	8.5	2-7	8.5	2-8	8.5	2-9	8.5	2-10	8.5	2-11
6-6	8.5	2-8	8.5	2-9	8.5	2-10	8.5	2-11	8.5	2-12
7-0	8.5	2-9	8.5	2-10	8.5	2-11	8.5	2-12	8.5	2-13
7-6	8.5	2-10	8.5	2-11	8.5	2-12	8.5	2-13	8.5	2-14
8-0	8.5	2-11	8.5	2-12	8.5	2-13	9.0	2-14	9.0	2-15
8-6	8.5	2-12	8.5	2-13	9.0	2-14	9.0	2-15	9.5	2-16
9-0	8.5	2-13	9.0	2-14	9.0	2-15	9.5	2-16	9.5	2-17
9-6	9.0	2-14	9.0	2-15	9.5	2-16	10.0	2-17	10.0	2-18
10-0	9.0	2-15	9.5	2-16	10.0	2-17	10.0	2-18	10.5	2-19
10-6	9.5	2-15	9.5	2-16	10.0	2-17	10.5	2-18	11.0	2-20
11-0	9.5	2-16	10.0	2-17	10.5	2-18	11.0	2-19	11.5	2-21
11-6	10.0	2-17	10.5	2-18	11.0	2-19	11.5	2-20	12.0	2-21
12-0	10.5	2-17	11.0	2-18	11.5	2-19	12.0	2-20	12.5	2-21
12-6	10.5	2-18	11.5	2-19	12.0	2-20	12.5	2-21	13.0	2-22
13-0	11.0	2-18	12.0	2-19	12.5	2-20	13.0	2-21	13.5	2-22
13-6	11.5	2-19	12.0	2-20	12.5	2-21	13.0	2-22	13.5	2-23
14-0	12.0	2-19	12.5	2-20	13.0	2-21	13.5	2-22	14.0	2-23
14-6	12.5	2-19	13.0	2-20	13.5	2-21	14.0	2-22	14.5	2-23
15-0	12.5	2-20	13.0	2-21	13.5	2-22	14.0	2-23	14.5	2-24
15-6	13.0	2-20	13.5	2-21	14.0	2-22	14.5	2-23	15.0	2-24
16-0	13.0	2-21	14.0	2-22	14.5	2-23	15.0	2-24	15.5	2-25
16-6	13.5	2-21	14.0	2-22	14.5	2-23	15.0	2-24	15.5	2-25
17-0	14.0	2-22	14.5	2-23	15.0	2-24	15.5	2-25	16.0	2-26
17-6	14.0	2-22	15.0	2-23	15.5	2-24	16.0	2-25	16.5	2-26
18-0	14.5	2-23	15.0	2-24	15.5	2-25	16.5	2-26	17.0	2-27
18-6	15.0	2-23	15.5	2-24	16.0	2-25	16.5	2-26	17.0	2-27
19-0	15.0	2-24	15.5	2-25	16.5	2-26	17.0	2-27	17.5	2-28
19-6	15.5	2-24	16.0	2-25	16.5	2-26	17.5	2-27	18.0	2-28
20-0	15.5	2-25	16.5	2-26	17.0	2-27	17.5	2-28	18.5	2-29
21-0	16.5	2-26	17.0	2-27	17.5	2-28	18.5	2-29	19.0	2-30
22-0	17.0	2-26	17.5	2-27	18.5	2-28	19.5	2-29	20.0	2-31
23-0	17.5	2-27	18.5	2-28	19.5	2-29	20.0	2-30	21.0	2-32
24-0	18.0	2-27	19.0	2-28	20.0	2-29	21.0	2-30	22.0	2-33
25-0	19.0	2-28	20.0	2-29	21.0	2-30	22.0	2-31	23.0	2-34
26-0	19.5	2-29	20.5	2-30	22.0	2-31	23.0	2-32	24.5	2-35
27-0	20.5	2-30	21.5	2-31	22.5	2-32	24.5	2-33	25.5	2-36
28-0	21.0	2-30	22.5	2-31	23.5	2-32	25.5	2-33	26.5	2-37
29-0	22.0	2-31	23.0	2-31	24.5	2-32	26.5	2-33	27.5	2-38
30-0	22.5	2-31	24.5	2-32	25.5	2-33	27.5	2-34	28.5	2-39

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.099		0.114		0.129		0.146		0.164	
C to C Beams	7'-0"		7'-6"		8'-0"		8'-6"		9'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	..	..	..	..	..	..	..	..	..	..
9-6	..	..	..	..	..	..	..	..	..	..
10-0	9.0	2-6	9.0	2-7	9.0	2-7	9.0	2-8	9.0	2-8
10-6	9.5	2-6	9.5	2-7	9.5	2-8	9.5	2-8	9.5	2-9
11-0	9.5	2-7	9.5	2-8	9.5	2-8	9.5	2-9	9.5	2-9
11-6	10.0	2-7	10.0	2-8	10.0	2-9	10.0	2-9	10.0	2-10
12-0	10.0	2-8	10.0	2-9	10.0	2-9	10.0	2-10	10.0	2-10
12-6	10.5	2-8	10.5	2-9	10.5	2-10	10.5	2-10	10.5	2-11
13-0	10.5	2-9	10.5	2-10	10.5	2-10	10.5	2-11	10.5	2-11
13-6	11.0	2-9	11.0	2-10	11.0	2-10	11.0	2-11	11.0	2-12
14-0	11.5	2-9	11.5	2-10	11.5	2-11	11.5	2-11	11.5	2-12
14-6	11.5	2-10	11.5	2-11	11.5	2-11	11.5	2-12	11.5	2-12
15-0	12.0	2-10	12.0	2-11	12.0	2-12	12.0	2-12	12.0	2-12
15-6	12.0	2-11	12.0	2-11	12.0	2-12	12.0	2-12	12.0	2-12
16-0	12.5	2-11	12.5	2-12	12.5	2-12	12.5	2-12	12.5	2-13
16-6	13.0	2-11	13.0	2-12	13.0	2-12	13.0	2-12	13.0	2-13
17-0	13.0	2-12	13.0	2-12	13.0	2-12	13.0	2-13	13.0	2-13
17-6	13.5	2-12	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-14
18-0	13.5	2-12	13.5	2-12	13.5	2-13	13.5	2-14	13.5	2-14
18-6	14.0	2-12	14.0	2-13	14.0	2-13	14.0	2-14	14.0	2-15
19-0	14.0	2-12	14.0	2-13	14.0	2-13	14.0	2-15	14.0	2-15
19-6	14.5	2-12	14.5	2-13	14.5	2-13	14.5	2-15	14.5	2-15
20-0	15.0	2-13	15.0	2-13	15.0	2-14	15.0	2-15	15.0	2-16
21-0	15.5	2-13	15.5	2-14	15.5	2-15	15.5	2-16	15.5	2-16
22-0	16.0	2-14	16.0	2-15	16.0	2-15	16.0	2-16	16.0	2-17
23-0	16.5	2-15	16.5	2-16	16.5	2-16	16.5	2-17	16.5	2-18
24-0	17.0	2-15	17.0	2-16	17.0	2-17	17.0	2-18	17.5	2-19
25-0	17.5	2-16	17.5	2-17	17.5	2-18	17.5	2-18	18.0	2-19
26-0	18.5	2-16	18.5	2-17	18.5	2-18	19.0	2-19	19.0	2-19
27-0	19.0	2-17	19.0	2-18	19.5	2-19	19.5	2-19	19.5	2-19
28-0	19.5	2-17	19.5	2-18	20.0	2-19	20.0	2-19	20.0	2-20
29-0	20.0	2-18	20.5	2-19	20.5	2-19	20.5	2-20	20.5	2-21
30-0	20.5	2-18	21.0	2-19	21.0	2-19	21.0	2-20	21.0	2-21

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.182		0.202		0.223		0.245		0.267	
C to C Beams	9'-6"		10'-0"		10'-6"		11'-0"		11'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	..	..	..	..	..	..	..	..	..	..
9-6	..	..	..	..	..	..	..	..	..	..
10-0	9.0	2-9	9.0	2-9	..	..	..	..	..	..
10-6	9.5	2-9	9.5	2-10	9.5	2-10	..	..	..	..
11-0	9.5	2-10	9.5	2-10	9.5	2-11	9.5	2-11	..	..
11-6	10.0	2-10	10.0	2-11	10.0	2-11	10.0	2-12	10.0	2-12
12-0	10.0	2-11	10.0	2-11	10.0	2-12	10.0	2-12	10.0	2-12
12-6	10.5	2-12	10.5	2-12	10.5	2-12	10.5	2-12	10.5	2-13
13-0	10.5	2-12	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-13
13-6	11.0	2-12	11.0	2-12	11.0	2-12	11.0	2-13	11.0	2-13
14-0	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-13	11.5	2-14
14-6	11.5	2-12	11.5	2-13	11.5	2-14	11.5	2-14	11.5	2-15
15-0	12.0	2-13	12.0	2-13	12.0	2-14	12.0	2-14	12.0	2-15
15-6	12.0	2-13	12.0	2-14	12.0	2-14	12.0	2-15	12.0	2-15
16-0	12.5	2-13	12.5	2-14	12.5	2-14	12.5	2-15	12.5	2-16
16-6	13.0	2-14	13.0	2-14	13.0	2-15	13.0	2-16	13.0	2-16
17-0	13.0	2-14	13.0	2-15	13.0	2-15	13.0	2-16	13.0	2-17
17-6	13.5	2-15	13.5	2-15	13.5	2-16	13.5	2-16	13.5	2-17
18-0	13.5	2-15	13.5	2-16	13.5	2-16	13.5	2-17	13.5	2-18
18-6	14.0	2-16	14.0	2-16	14.0	2-17	14.0	2-17	14.0	2-18
19-0	14.0	2-16	14.0	2-17	14.0	2-17	14.0	2-18	14.5	2-19
19-6	14.5	2-16	14.5	2-17	14.5	2-17	14.5	2-18	15.0	2-19
20-0	15.0	2-16	15.0	2-17	15.0	2-18	15.0	2-18	15.5	2-19
21-0	15.5	2-17	15.5	2-18	15.5	2-18	16.0	2-19	16.0	2-19
22-0	16.0	2-18	16.0	2-18	16.5	2-19	16.5	2-19	16.5	2-20
23-0	17.0	2-19	17.0	2-19	17.0	2-19	17.0	2-20	17.0	2-21
24-0	17.5	2-19	17.5	2-19	17.5	2-20	17.5	2-21	17.5	2-21
25-0	18.0	2-19	18.0	2-20	18.0	2-21	18.0	2-21	18.0	2-22
26-0	19.0	2-20	19.0	2-20	19.0	2-21	19.0	2-22	19.0	2-22
27-0	19.5	2-20	19.5	2-21	19.5	2-22	19.5	2-22	19.5	2-23
28-0	20.0	2-21	20.0	2-22	20.0	2-22	20.0	2-23	20.0	2-24
29-0	20.5	2-21	20.5	2-22	20.5	2-23	20.5	2-24	20.5	2-24
30-0	21.0	2-22	21.0	2-23	21.0	2-24	21.0	2-24	21.0	2-25

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

50 Lbs.

Area of Steel per Lineal Foot of Slab

Ft. In.	0.291		0.316		0.342		0.369		0.108	
C to C Beams	12'-0"		12'-6"		13'-0"		13'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
6-6	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
7-0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
7-6	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
8-0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
8-6	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
9-0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
9-6	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
10-0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	9.0	2-7
10-6	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	9.5	2-7
11-0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	9.5	2-8
11-6	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	10.0	2-8
12-0	10.0	2-13	. . .	. . .	. . .	. . .	. . .	. . .	10.0	2-9
12-6	10.5	2-13	10.5	2-14	. . .	. . .	. . .	. . .	10.5	2-9
13-0	10.5	2-14	10.5	2-14	10.5	2-15	. . .	. . .	10.5	2-10
13-6	11.0	2-14	11.0	2-14	11.0	2-15	11.0	2-15	11.0	2-10
14-0	11.5	2-14	11.5	2-15	11.5	2-16	11.5	2-16	11.5	2-10
14-6	11.5	2-15	11.5	2-16	11.5	2-16	11.5	2-17	11.5	2-11
15-0	12.0	2-16	12.0	2-16	12.0	2-17	12.0	2-17	12.0	2-11
15-6	12.0	2-16	12.0	2-17	12.0	2-17	12.0	2-18	12.0	2-12
16-0	12.5	2-16	12.5	2-17	12.5	2-17	12.5	2-18	12.5	2-12
16-6	13.0	2-17	13.0	2-17	13.0	2-18	13.0	2-18	13.0	2-12
17-0	13.0	2-17	13.0	2-18	13.0	2-18	13.5	2-19	13.0	2-12
17-6	13.5	2-18	13.5	2-18	14.0	2-19	14.0	2-19	13.5	2-12
18-0	13.5	2-18	14.0	2-19	14.0	2-19	14.0	2-19	13.5	2-12
18-6	14.5	2-19	14.5	2-19	14.5	2-19	14.5	2-20	14.0	2-13
19-0	14.5	2-19	14.5	2-19	14.5	2-19	14.5	2-20	14.0	2-13
19-6	15.0	2-19	15.0	2-19	15.0	2-20	15.0	2-20	14.5	2-13
20-0	15.5	2-19	15.5	2-19	15.5	2-20	15.5	2-21	15.0	2-14
21-0	16.0	2-19	16.0	2-20	16.0	2-21	16.0	2-21	15.5	2-14
22-0	16.5	2-20	16.5	2-21	16.5	2-21	16.5	2-22	16.0	2-15
23-0	17.0	2-21	17.0	2-22	17.0	2-23	17.0	2-23	16.5	2-16
24-0	17.5	2-22	17.5	2-23	17.5	2-24	17.5	2-24	17.0	2-17
25-0	18.0	2-23	18.0	2-23	18.0	2-24	18.0	2-25	17.5	2-17
26-0	19.0	2-23	19.0	2-24	19.0	2-25	19.0	2-25	18.5	2-17
27-0	19.5	2-24	19.5	2-25	19.5	2-25	19.5	2-26	19.0	2-18
28-0	20.0	2-25	20.0	2-25	20.0	2-26	20.0	2-26	20.0	2-19
29-0	20.5	2-25	20.5	2-26	20.5	2-26	20.5	2-26	20.5	2-19
30-0	21.0	2-26	21.0	2-26	21.0	2-26	21.0	2-27	21.0	2-19

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.124		0.142		0.160		0.179		0.200	
C to C Beams	7'-6"		8'-0"		8'-6"		9'-0"		9'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	..	..	..	..	..	..	..	..	..	..
9-6	..	..	..	..	..	..	..	..	..	..
10-0	9.0	2-7	9.0	2-8	9.0	2-8	9.0	2-9	9.0	2-10
10-6	9.5	2-8	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-10
11-0	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-10	9.5	2-11
11-6	10.0	2-9	10.0	2-10	10.0	2-10	10.0	2-11	10.0	2-11
12-0	10.0	2-9	10.0	2-10	10.0	2-11	10.0	2-11	10.0	2-12
12-6	10.5	2-10	10.5	2-11	10.5	2-11	10.5	2-12	10.5	2-12
13-0	10.5	2-10	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-12
13-6	11.0	2-11	11.0	2-11	11.0	2-12	11.0	2-12	11.0	2-12
14-0	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-13
14-6	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-13
15-0	12.0	2-12	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-14
15-6	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-14	12.0	2-14
16-0	12.5	2-12	12.5	2-12	12.5	2-13	12.5	2-14	12.5	2-14
16-6	13.0	2-12	13.0	2-13	13.0	2-13	13.0	2-14	13.0	2-15
17-0	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-15
17-6	13.5	2-13	13.5	2-14	13.5	2-14	13.5	2-15	13.5	2-16
18-0	13.5	2-13	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-16
18-6	14.0	2-14	14.0	2-14	14.0	2-15	14.0	2-16	14.0	2-17
19-0	14.0	2-14	14.0	2-15	14.0	2-16	14.0	2-16	14.0	2-17
19-6	14.5	2-14	14.5	2-15	14.5	2-16	14.5	2-17	14.5	2-17
20-0	15.0	2-15	15.0	2-15	15.0	2-16	15.0	2-17	15.0	2-18
21-0	15.5	2-15	15.5	2-16	15.5	2-17	15.5	2-18	15.5	2-18
22-0	16.0	2-16	16.0	2-16	16.0	2-17	16.0	2-18	16.5	2-19
23-0	16.5	2-17	16.5	2-18	16.5	2-18	17.0	2-19	17.0	2-19
24-0	17.0	2-17	17.0	2-18	17.5	2-19	17.5	2-19	17.5	2-20
25-0	17.5	2-18	18.0	2-19	18.0	2-19	18.0	2-20	18.0	2-20
26-0	18.5	2-18	19.0	2-19	19.0	2-19	19.0	2-20	19.0	2-21
27-0	19.5	2-19	19.5	2-19	19.5	2-20	19.5	2-21	19.5	2-22
28-0	20.0	2-19	20.0	2-19	20.0	2-20	20.0	2-21	20.0	2-22
29-0	20.5	2-19	20.5	2-20	20.5	2-21	20.5	2-22	20.5	2-23
30-0	21.0	2-20	21.0	2-21	21.0	2-22	21.0	2-23	21.0	2-23

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.221		0.244		0.268		0.293		0.319	
C to C Beams	10'-0"		10'-6"		11'-0"		11'-6"		12'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	..	..	..	..	..	..	..	..	..	..
9-6	..	..	..	..	..	..	..	..	..	..
10-0	9.0	2-10	..	..	..	..	..	..	..	..
10-6	9.5	2-11	9.5	2-11	..	..	..	..	..	..
11-0	9.5	2-11	9.5	2-12	9.5	2-12	..	..	..	..
11-6	10.0	2-12	10.0	2-12	10.0	2-12	10.0	2-13	..	..
12-0	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-13	10.0	2-14
12-6	10.5	2-12	10.5	2-13	10.5	2-13	10.5	2-14	10.5	2-14
13-0	10.5	2-13	10.5	2-13	10.5	2-14	10.5	2-14	10.5	2-15
13-6	11.0	2-13	11.0	2-13	11.0	2-14	11.0	2-15	11.0	2-15
14-0	11.5	2-13	11.5	2-14	11.5	2-15	11.5	2-15	11.5	2-16
14-6	11.5	2-14	11.5	2-15	11.5	2-15	11.5	2-16	11.5	2-16
15-0	12.0	2-14	12.0	2-15	12.0	2-16	12.0	2-16	12.0	2-17
15-6	12.0	2-15	12.0	2-15	12.0	2-16	12.0	2-17	12.0	2-17
16-0	12.5	2-15	12.5	2-16	12.5	2-16	12.5	2-17	12.5	2-18
16-6	13.0	2-15	13.0	2-16	13.0	2-17	13.0	2-17	13.0	2-18
17-0	13.0	2-16	13.0	2-17	13.0	2-17	13.0	2-18	13.5	2-19
17-6	13.5	2-16	13.5	2-17	13.5	2-18	13.5	2-18	14.0	2-19
18-0	13.5	2-17	13.5	2-18	13.5	2-18	14.0	2-19	14.0	2-19
18-6	14.0	2-17	14.0	2-18	14.5	2-19	14.5	2-19	14.5	2-19
19-0	14.0	2-18	14.5	2-19	14.5	2-19	14.5	2-19	14.5	2-20
19-6	14.5	2-18	15.0	2-19	15.0	2-19	15.0	2-19	15.0	2-20
20-0	15.0	2-18	15.5	2-19	15.5	2-19	15.5	2-20	15.5	2-20
21-0	16.0	2-19	16.0	2-19	16.0	2-19	16.0	2-20	16.0	2-21
22-0	16.5	2-19	16.5	2-19	16.5	2-20	16.5	2-21	16.5	2-21
23-0	17.0	2-20	17.0	2-21	17.0	2-21	17.0	2-22	17.0	2-23
24-0	17.5	2-21	17.5	2-21	17.5	2-22	17.5	2-23	17.5	2-24
25-0	18.0	2-21	18.0	2-22	18.0	2-23	18.0	2-23	18.0	2-24
26-0	19.0	2-22	19.0	2-22	19.0	2-23	19.0	2-24	19.0	2-25
27-0	19.5	2-22	19.5	2-23	19.5	2-24	19.5	2-25	19.5	2-26
28-0	20.0	2-23	20.0	2-24	20.0	2-25	20.0	2-25	20.0	2-26
29-0	20.5	2-24	20.5	2-24	20.5	2-25	20.5	2-26	20.5	2-26
30-0	21.0	2-24	21.0	2-25	21.0	2-26	21.0	2-26	21.0	2-27



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

75 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.346		0.374		0.114		0.132		0.151	
C to C Beams	12'-6"		13'-0"		6'-6"		7'-0"		7'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
10-0	. .	. .	. .	. .	9.0	2- 8	9.0	2- 8	9.0	2- 9
10-6	. .	. .	. .	. .	9.5	2- 8	9.5	2- 9	9.5	2-10
11-0	. .	. .	. .	. .	9.5	2- 9	9.5	2-10	9.5	2-10
11-6	. .	. .	. .	. .	10.0	2- 9	10.0	2-10	10.0	2-11
12-0	. .	. .	. .	. .	10.0	2-10	10.0	2-11	10.0	2-11
12-6	10.5	2-15	. .	. .	10.5	2-11	10.5	2-11	10.5	2-12
13-0	10.5	2-15	10.5	2-16	10.5	2-11	10.5	2-12	10.5	2-12
13-6	11.0	2-16	11.0	2-16	11.0	2-11	11.0	2-12	11.0	2-12
14-0	11.5	2-16	11.5	2-17	11.5	2-12	11.5	2-12	11.5	2-12
14-6	11.5	2-17	11.5	2-18	11.5	2-12	11.5	2-12	11.5	2-13
15-0	12.0	2-17	12.0	2-18	12.0	2-12	12.0	2-12	12.0	2-13
15-6	12.0	2-18	12.5	2-19	12.0	2-12	12.0	2-13	12.0	2-14
16-0	12.5	2-18	13.0	2-19	12.5	2-12	12.5	2-13	12.5	2-14
16-6	13.5	2-19	13.5	2-19	13.0	2-13	13.0	2-13	13.0	2-14
17-0	13.5	2-19	13.5	2-19	13.0	2-13	13.0	2-14	13.0	2-15
17-6	14.0	2-19	14.0	2-19	13.5	2-13	13.5	2-15	13.5	2-15
18-0	14.0	2-19	14.0	2-20	13.5	2-14	13.5	2-15	13.5	2-16
18-6	14.5	2-20	14.5	2-20	14.0	2-14	14.0	2-15	14.0	2-16
19-0	14.5	2-20	14.5	2-21	14.0	2-15	14.0	2-16	14.0	2-16
19-6	15.0	2-20	15.0	2-21	14.5	2-15	14.5	2-16	14.5	2-16
20-0	15.5	2-21	15.5	2-21	15.0	2-15	15.0	2-16	15.0	2-17
21-0	16.0	2-21	16.0	2-22	15.5	2-16	15.5	2-17	15.5	2-18
22-0	16.5	2-22	16.5	2-23	16.0	2-16	16.0	2-17	16.0	2-18
23-0	17.0	2-24	17.0	2-24	16.5	2-17	16.5	2-18	17.0	2-19
24-0	17.5	2-24	17.5	2-25	17.0	2-18	17.5	2-19	17.5	2-19
25-0	18.0	2-25	18.0	2-26	18.0	2-19	18.0	2-19	18.0	2-20
26-0	19.0	2-26	19.0	2-26	19.0	2-19	19.0	2-19	19.0	2-20
27-0	19.5	2-26	19.5	2-26	19.5	2-19	19.5	2-20	19.5	2-21
28-0	20.0	2-26	20.0	2-27	20.0	2-19	20.0	2-20	20.0	2-22
29-0	20.5	2-27	20.5	2-27	20.5	2-20	20.5	2-21	20.5	2-22
30-0	21.0	2-27	21.0	2-28	21.0	2-20	21.0	2-22	21.0	2-23

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.172		0.194		0.218		0.243		0.269	
C to C Beams	8'-0"		8'-6"		9'-0"		9'-6"		10'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	..	..	..	..	..	..	..	..	..	..
9-6	..	..	..	..	..	..	..	..	..	..
10-0	9.0	2-10	9.0	2-10	9.0	2-11	9.0	2-12	9.0	2-12
10-6	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-12
11-0	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-12	9.5	2-12
11-6	10.0	2-12	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-13
12-0	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-13	10.0	2-14
12-6	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-14	10.5	2-14
13-0	10.5	2-12	10.5	2-13	10.5	2-14	10.5	2-14	10.5	2-15
13-6	11.0	2-12	11.0	2-13	11.0	2-14	11.0	2-15	11.0	2-15
14-0	11.5	2-13	11.5	2-14	11.5	2-14	11.5	2-15	11.5	2-16
14-6	11.5	2-14	11.5	2-14	11.5	2-15	11.5	2-16	11.5	2-17
15-0	12.0	2-14	12.0	2-15	12.0	2-16	12.0	2-16	12.0	2-17
15-6	12.0	2-15	12.0	2-15	12.0	2-16	12.0	2-17	12.0	2-17
16-0	12.5	2-15	12.5	2-15	12.5	2-16	12.5	2-17	12.5	2-18
16-6	13.0	2-15	13.0	2-16	13.0	2-17	13.0	2-17	13.0	2-18
17-0	13.0	2-16	13.0	2-16	13.0	2-17	13.0	2-18	13.5	2-19
17-6	13.5	2-16	13.5	2-17	13.5	2-18	13.5	2-18	14.0	2-19
18-0	13.5	2-17	13.5	2-17	13.5	2-18	14.0	2-19	14.0	2-19
18-6	14.0	2-17	14.0	2-18	14.5	2-19	14.5	2-19	14.5	2-19
19-0	14.0	2-17	14.0	2-18	14.5	2-19	14.5	2-19	14.5	2-20
19-6	14.5	2-18	15.0	2-19	15.0	2-19	15.0	2-19	15.0	2-20
20-0	15.0	2-18	15.5	2-19	15.5	2-19	15.5	2-20	15.5	2-20
21-0	16.0	2-19	16.0	2-19	16.0	2-19	16.0	2-20	16.0	2-21
22-0	16.5	2-19	16.5	2-19	16.5	2-20	16.5	2-21	16.5	2-22
23-0	17.0	2-19	17.0	2-20	17.0	2-21	17.0	2-22	17.0	2-23
24-0	17.5	2-20	17.5	2-21	17.5	2-22	17.5	2-23	17.5	2-24
25-0	18.0	2-21	18.0	2-22	18.0	2-23	18.0	2-24	18.0	2-24
26-0	19.0	2-21	19.0	2-22	19.0	2-23	19.0	2-24	19.0	2-25
27-0	19.5	2-22	19.5	2-23	19.5	2-24	19.5	2-25	19.5	2-26
28-0	20.0	2-23	20.0	2-24	20.0	2-25	20.0	2-26	20.0	2-26
29-0	20.5	2-23	20.5	2-24	20.5	2-25	20.5	2-26	20.5	2-26
30-0	21.0	2-24	21.0	2-25	21.0	2-26	21.0	2-26	21.0	2-27

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.297		0.326		0.356		0.387		0.420	
C to C Beams	10'-6"		11'-0"		11'-6"		12'-0"		12'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	..	..	..	..	..	..	..	..	..	..
9-6	..	..	..	..	..	..	..	..	..	..
10-0	..	..	..	..	..	..	..	..	..	..
10-6	9.5	2-12	..	..	..	..	..	..	..	..
11-0	9.5	2-13	9.5	2-14	..	..	..	..	..	..
11-6	10.0	2-14	10.0	2-14	10.0	2-15	..	..	..	..
12-0	10.0	2-14	10.0	2-15	10.0	2-16	10.0	2-16	..	..
12-6	10.5	2-15	10.5	2-16	10.5	2-16	10.5	2-17	10.5	2-18
13-0	10.5	2-16	10.5	2-16	10.5	2-17	10.5	2-18	10.5	2-18
13-6	11.0	2-16	11.0	2-17	11.0	2-17	11.0	2-18	11.0	2-18
14-0	11.5	2-17	11.5	2-17	11.5	2-18	11.5	2-18	12.0	2-19
14-6	11.5	2-17	11.5	2-18	12.0	2-19	12.0	2-19	12.0	2-19
15-0	12.0	2-18	12.0	2-18	12.5	2-19	12.5	2-19	12.5	2-19
15-6	12.0	2-18	12.5	2-19	12.5	2-19	12.5	2-19	12.5	2-20
16-0	12.5	2-18	13.0	2-19	13.0	2-19	13.0	2-19	13.0	2-20
16-6	13.5	2-19	13.5	2-19	13.5	2-19	13.5	2-20	13.5	2-21
17-0	13.5	2-19	13.5	2-19	13.5	2-20	13.5	2-21	13.5	2-21
17-6	14.0	2-19	14.0	2-20	14.0	2-20	14.0	2-21	14.0	2-22
18-0	14.0	2-20	14.0	2-20	14.0	2-21	14.0	2-22	14.0	2-22
18-6	14.5	2-20	14.5	2-21	14.5	2-22	14.5	2-22	14.5	2-23
19-0	14.5	2-21	14.5	2-21	14.5	2-22	14.5	2-23	14.5	2-24
19-6	15.0	2-21	15.0	2-22	15.0	2-22	15.0	2-23	15.0	2-24
20-0	15.5	2-21	15.5	2-22	15.5	2-23	15.5	2-23	15.5	2-24
21-0	16.0	2-22	16.0	2-23	16.0	2-23	16.0	2-24	16.0	2-25
22-0	16.5	2-22	16.5	2-23	16.5	2-24	16.5	2-25	16.5	2-25
23-0	17.0	2-24	17.0	2-25	17.0	2-26	17.0	2-26	17.0	2-26
24-0	17.5	2-25	17.5	2-26	17.5	2-26	17.5	2-26	17.5	2-27
25-0	18.0	2-25	18.0	2-26	18.0	2-26	18.0	2-27	18.0	2-28
26-0	19.0	2-26	19.0	2-26	19.0	2-27	19.0	2-27	19.0	2-28
27-0	19.5	2-26	19.5	2-27	19.5	2-27	19.5	2-28	19.5	2-29
28-0	20.0	2-26	20.0	2-27	20.0	2-28	20.0	2-29	20.0	2-30
29-0	20.5	2-27	20.5	2-28	20.5	2-29	20.5	2-30	20.5	2-31
30-0	21.0	2-28	21.0	2-29	21.0	2-30	21.0	2-30	21.0	2-31

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

100 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.114		0.134		0.155		0.178		0.208	
C to C Beams	6'-0"		6'-6"		7'-0"		7'-6"		8'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	9.0	2-6	9.0	2-7	9.0	2-8	9.0	2-9	9.0	2-9
9-6	9.0	2-7	9.0	2-8	9.0	2-9	9.0	2-9	9.0	2-10
10-0	9.0	2-9	9.0	2-9	9.0	2-10	9.0	2-11	9.0	2-12
10-6	9.5	2-9	9.5	2-10	9.5	2-11	9.5	2-11	9.5	2-12
11-0	9.5	2-10	9.5	2-11	9.5	2-11	9.5	2-12	9.5	2-12
11-6	10.0	2-10	10.0	2-11	10.0	2-12	10.0	2-12	10.0	2-12
12-0	10.0	2-11	10.0	2-12	10.0	2-12	10.0	2-12	10.0	2-13
12-6	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-14
13-0	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-13	10.5	2-14
13-6	11.0	2-12	11.0	2-12	11.0	2-13	11.0	2-14	11.0	2-14
14-0	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-14	11.5	2-15
14-6	11.5	2-12	11.5	2-13	11.5	2-14	11.5	2-15	11.5	2-16
15-0	12.0	2-13	12.0	2-13	12.0	2-14	12.0	2-15	12.0	2-16
15-6	12.0	2-13	12.0	2-14	12.0	2-15	12.0	2-16	12.0	2-17
16-0	12.5	2-13	12.5	2-14	12.5	2-15	12.5	2-16	12.5	2-17
16-6	13.0	2-14	13.0	2-15	13.0	2-15	13.0	2-16	13.0	2-17
17-0	13.0	2-14	13.0	2-15	13.0	2-16	13.0	2-17	13.0	2-18
17-6	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-17	13.5	2-18
18-0	13.5	2-15	13.5	2-16	13.5	2-17	13.5	2-18	14.0	2-19
18-6	14.0	2-15	14.0	2-16	14.0	2-17	14.0	2-18	14.5	2-19
19-0	14.0	2-16	14.0	2-17	14.0	2-18	14.5	2-19	14.5	2-19
19-6	14.5	2-16	14.5	2-17	14.5	2-18	15.0	2-19	15.0	2-19
20-0	15.0	2-16	15.0	2-17	15.0	2-18	15.5	2-19	15.5	2-19
21-0	15.5	2-17	15.5	2-18	16.0	2-19	16.0	2-19	16.0	2-20
22-0	16.0	2-17	16.0	2-18	16.5	2-19	16.5	2-20	16.5	2-21
23-0	17.0	2-19	17.0	2-19	17.0	2-20	17.0	2-21	17.0	2-22
24-0	17.5	2-19	17.5	2-20	17.5	2-21	17.5	2-22	17.5	2-23
25-0	18.0	2-19	18.0	2-20	18.0	2-21	18.0	2-22	18.0	2-23
26-0	19.0	2-19	19.0	2-21	19.0	2-22	19.0	2-23	19.0	2-24
27-0	19.5	2-20	19.5	2-21	19.5	2-22	19.5	2-24	19.5	2-25
28-0	20.0	2-21	20.0	2-22	20.0	2-23	20.0	2-24	20.0	2-25
29-0	20.5	2-21	20.5	2-22	20.5	2-24	20.5	2-25	20.5	2-26
30-0	21.0	2-22	21.0	2-23	21.0	2-24	21.0	2-26	21.0	2-26

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

100 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.929		0.957		0.986		0.817		0.849	
C to C Beams	8'-6"		9'-0"		9'-6"		10'-0"		10'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	9.0	2-10	9.0	2-10	..	..	..	..	..	..
9-6	9.0	2-11	9.0	2-11	9.0	2-12	..	..	..	..
10-0	9.0	2-12	9.0	2-12	9.0	2-12	9.0	2-13	..	..
10-6	9.5	2-12	9.5	2-13	9.5	2-13	9.5	2-14	9.5	2-14
11-0	9.5	2-13	9.5	2-13	9.5	2-14	9.5	2-15	9.5	2-15
11-6	10.0	2-13	10.0	2-14	10.0	2-15	10.0	2-15	10.0	2-16
12-0	10.0	2-14	10.0	2-15	10.0	2-15	10.0	2-16	10.0	2-17
12-6	10.5	2-15	10.5	2-15	10.5	2-16	10.5	2-17	10.5	2-17
13-0	10.5	2-15	10.5	2-16	10.5	2-17	10.5	2-17	10.5	2-18
13-6	11.0	2-15	11.0	2-16	11.0	2-17	11.0	2-17	11.0	2-18
14-0	11.5	2-16	11.5	2-17	11.5	2-17	11.5	2-18	12.0	2-19
14-6	11.5	2-17	11.5	2-17	11.5	2-18	12.0	2-19	12.0	2-19
15-0	12.0	2-17	12.0	2-18	12.5	2-19	12.5	2-19	12.5	2-19
15-6	12.0	2-17	12.0	2-18	12.5	2-19	12.5	2-19	12.5	2-20
16-0	12.5	2-18	13.0	2-19	13.0	2-19	13.0	2-19	13.0	2-20
16-6	13.0	2-18	13.5	2-19	13.5	2-19	13.5	2-20	13.5	2-20
17-0	13.5	2-19	13.5	2-19	13.5	2-19	13.5	2-20	13.5	2-21
17-6	14.0	2-19	14.0	2-19	14.0	2-20	14.0	2-21	14.0	2-22
18-0	14.0	2-19	14.0	2-20	14.0	2-21	14.0	2-21	14.0	2-22
18-6	14.5	2-19	14.5	2-20	14.5	2-21	14.5	2-22	14.5	2-23
19-0	14.5	2-20	14.5	2-21	14.5	2-22	14.5	2-23	14.5	2-23
19-6	15.0	2-20	15.0	2-21	15.0	2-22	15.0	2-23	15.0	2-24
20-0	15.5	2-20	15.5	2-21	15.5	2-22	15.5	2-23	15.5	2-24
21-0	16.0	2-21	16.0	2-22	16.0	2-23	16.0	2-24	16.0	2-25
22-0	16.5	2-22	16.5	2-23	16.5	2-23	16.5	2-24	16.5	2-25
23-0	17.0	2-23	17.0	2-24	17.0	2-25	17.0	2-26	17.0	2-26
24-0	17.5	2-24	17.5	2-25	17.5	2-26	17.5	2-26	17.5	2-27
25-0	18.0	2-24	18.0	2-26	18.0	2-26	18.0	2-26	18.0	2-27
26-0	19.0	2-25	19.0	2-26	19.0	2-26	19.0	2-27	19.0	2-28
27-0	19.5	2-26	19.5	2-26	19.5	2-27	19.5	2-28	19.5	2-29
28-0	20.0	2-26	20.0	2-27	20.0	2-28	20.0	2-29	20.0	2-30
29-0	20.5	2-26	20.5	2-27	20.5	2-28	20.5	2-29	20.5	2-30
30-0	21.0	2-27	21.0	2-28	21.0	2-29	21.0	2-30	21.0	2-31

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

100 Lbs.

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.388		0.418		0.131		0.154		0.179	
C to C Beams	11'-0"		11'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	9.0	2-6	9.0	2-7	9.0	2-7
8-6	..	..	..	..	9.0	2-7	9.0	2-8	9.0	2-8
9-0	..	..	..	..	9.0	2-8	9.0	2-9	9.0	2-9
9-6	..	..	..	..	9.0	2-9	9.0	2-9	9.0	2-10
10-0	..	..	..	..	9.0	2-10	9.0	2-11	9.0	2-12
10-6	..	..	..	..	9.5	2-11	9.5	2-11	9.5	2-12
11-0	9.5	2-16	..	..	9.5	2-11	9.5	2-12	9.5	2-12
11-6	10.0	2-17	10.0	2-18	10.0	2-12	10.0	2-12	10.0	2-13
12-0	10.0	2-17	10.0	2-18	10.0	2-12	10.0	2-12	10.0	2-13
12-6	10.5	2-18	11.0	2-19	10.5	2-12	10.5	2-13	10.5	2-14
13-0	11.0	2-19	11.0	2-19	10.5	2-12	10.5	2-13	10.5	2-14
13-6	11.5	2-19	11.5	2-19	11.0	2-13	11.0	2-14	11.0	2-15
14-0	12.0	2-19	12.0	2-20	11.5	2-13	11.5	2-14	11.5	2-15
14-6	12.0	2-19	12.0	2-21	11.5	2-14	11.5	2-15	11.5	2-16
15-0	12.5	2-20	12.5	2-21	12.0	2-14	12.0	2-15	12.0	2-16
15-6	12.5	2-20	12.5	2-22	12.0	2-15	12.0	2-16	12.0	2-17
16-0	13.0	2-21	13.0	2-23	12.5	2-15	12.5	2-16	12.5	2-17
16-6	13.5	2-21	13.5	2-23	13.0	2-15	13.0	2-16	13.0	2-17
17-0	13.5	2-22	13.5	2-23	13.0	2-16	13.0	2-17	13.0	2-18
17-6	14.0	2-22	14.0	2-24	13.5	2-16	13.5	2-17	13.5	2-18
18-0	14.0	2-23	14.0	2-24	13.5	2-17	13.5	2-18	14.0	2-19
18-6	14.5	2-24	14.5	2-25	14.0	2-17	14.0	2-18	14.5	2-19
19-0	14.5	2-24	14.5	2-25	14.0	2-18	14.5	2-19	14.5	2-19
19-6	15.0	2-24	15.0	2-26	14.5	2-18	15.0	2-19	15.0	2-19
20-0	15.5	2-25	15.5	2-26	15.0	2-18	15.5	2-19	15.5	2-20
21-0	16.0	2-26	16.0	2-27	16.0	2-19	16.0	2-19	16.0	2-20
22-0	16.5	2-26	16.5	2-27	16.5	2-19	16.5	2-20	16.5	2-21
23-0	17.0	2-27	17.0	2-28	17.0	2-20	17.0	2-21	17.0	2-22
24-0	17.5	2-28	17.5	2-29	17.5	2-20	17.5	2-22	17.5	2-23
25-0	18.0	2-28	18.0	2-30	18.0	2-21	18.0	2-22	18.0	2-24
26-0	19.0	2-29	19.0	2-31	19.0	2-22	19.0	2-23	19.0	2-24
27-0	19.5	2-30	19.5	2-32	19.5	2-22	19.5	2-24	19.5	2-25
28-0	20.0	2-31	20.0	2-32	20.0	2-23	20.0	2-24	20.0	2-26
29-0	20.5	2-31	21.0	2-33	20.5	2-23	20.5	2-25	20.5	2-26
30-0	21.0	2-32	21.5	2-34	21.0	2-24	21.0	2-25	21.0	2-26

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.205		0.233		0.263		0.295		0.329	
C to C Beams	7'-6"		8'-0"		8'-6"		9'-0"		9'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	9.0	2-8	9.0	2-8	..	..	..	..	..	..
8-6	9.0	2-9	9.0	2-10	9.0	2-10	..	..	..	..
9-0	9.0	2-10	9.0	2-11	9.0	2-11	9.0	2-12	..	..
9-6	9.0	2-11	9.0	2-12	9.0	2-12	9.0	2-12	9.0	2-13
10-0	9.0	2-12	9.0	2-12	9.0	2-13	9.0	2-14	9.0	2-14
10-6	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-14	9.5	2-15
11-0	9.5	2-13	9.5	2-14	9.5	2-14	9.5	2-15	9.5	2-16
11-6	10.0	2-13	10.0	2-14	10.0	2-15	10.0	2-16	10.0	2-16
12-0	10.0	2-14	10.0	2-15	10.0	2-16	10.0	2-16	10.0	2-17
12-6	10.5	2-15	10.5	2-16	10.5	2-16	10.5	2-17	10.5	2-18
13-0	10.5	2-15	10.5	2-16	10.5	2-17	10.5	2-18	11.0	2-19
13-6	11.0	2-16	11.0	2-16	11.0	2-17	11.0	2-18	11.5	2-19
14-0	11.5	2-16	11.5	2-17	11.5	2-18	12.0	2-19	12.0	2-19
14-6	11.5	2-17	11.5	2-18	12.0	2-19	12.0	2-19	12.0	2-19
15-0	12.0	2-17	12.0	2-18	12.5	2-19	12.5	2-19	12.5	2-20
15-6	12.0	2-18	12.5	2-19	12.5	2-19	12.5	2-19	12.5	2-20
16-0	12.5	2-18	13.0	2-19	13.0	2-19	13.0	2-20	13.0	2-21
16-6	13.0	2-18	13.5	2-19	13.5	2-19	13.5	2-20	13.5	2-21
17-0	13.5	2-19	13.5	2-19	13.5	2-20	13.5	2-21	13.5	2-22
17-6	14.0	2-19	14.0	2-19	14.0	2-20	14.0	2-21	14.0	2-22
18-0	14.0	2-19	14.0	2-20	14.0	2-21	14.0	2-22	14.0	2-23
18-6	14.5	2-20	14.5	2-21	14.5	2-22	14.5	2-23	14.5	2-23
19-0	14.5	2-20	14.5	2-21	14.5	2-22	14.5	2-23	14.5	2-24
19-6	15.0	2-20	15.0	2-21	15.0	2-22	15.0	2-23	15.0	2-24
20-0	15.5	2-21	15.5	2-22	15.5	2-23	15.5	2-24	15.5	2-25
21-0	16.0	2-21	16.0	2-22	16.0	2-23	16.0	2-24	16.0	2-25
22-0	16.5	2-22	16.5	2-23	16.5	2-24	16.5	2-25	16.5	2-26
23-0	17.0	2-23	17.0	2-24	17.0	2-26	17.0	2-26	17.0	2-27
24-0	17.5	2-24	17.5	2-25	17.5	2-26	17.5	2-27	17.5	2-28
25-0	18.0	2-25	18.0	2-26	18.0	2-26	18.0	2-27	18.0	2-28
26-0	19.0	2-25	19.0	2-26	19.0	2-27	19.0	2-28	19.0	2-29
27-0	19.5	2-26	19.5	2-26	19.5	2-27	19.5	2-28	19.5	2-30
28-0	20.0	2-26	20.0	2-27	20.0	2-28	20.0	2-29	20.0	2-30
29-0	20.5	2-26	20.5	2-28	20.5	2-29	20.5	2-30	20.5	2-31
30-0	21.0	2-27	21.0	2-28	21.0	2-30	21.0	2-31	21.0	2-32

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

125 Lbs.

150 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.364		0.402		0.441		0.125		0.148	
C to C Beams	10'-0"		10'-6"		11'-0"		5'-6"		6'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	9.0	2-6	9.0	2-7
8-6	..	..	..	..	..	..	9.0	2-7	9.0	2-8
9-0	..	..	..	..	..	..	9.0	2-8	9.0	2-9
9-6	..	..	..	..	..	..	9.0	2-9	9.0	2-10
10-0	9.0	2-15	..	..	..	..	9.0	2-10	9.0	2-11
10-6	9.5	2-17	9.5	2-17	..	..	9.5	2-11	9.5	2-12
11-0	9.5	2-17	9.5	2-17	10.0	2-18	9.5	2-12	9.5	2-12
11-6	10.0	2-18	10.0	2-18	10.0	2-18	10.0	2-12	10.0	2-12
12-0	10.0	2-18	11.0	2-19	11.0	2-19	10.0	2-12	10.0	2-13
12-6	11.0	2-19	11.0	2-19	11.5	2-19	10.5	2-12	10.5	2-13
13-0	11.0	2-19	11.5	2-19	11.5	2-19	10.5	2-13	10.5	2-14
13-6	11.5	2-19	11.5	2-19	12.0	2-20	11.0	2-13	11.0	2-14
14-0	12.0	2-20	12.0	2-20	12.0	2-21	11.5	2-14	11.5	2-15
14-6	12.0	2-21	12.5	2-21	12.5	2-21	11.5	2-14	11.5	2-15
15-0	12.5	2-21	12.5	2-22	13.0	2-22	12.0	2-15	12.0	2-16
15-6	12.5	2-22	13.0	2-22	13.0	2-23	12.0	2-15	12.0	2-16
16-0	13.0	2-23	13.0	2-23	13.5	2-23	12.5	2-15	12.5	2-17
16-6	13.5	2-23	13.5	2-23	13.5	2-23	13.0	2-16	13.0	2-17
17-0	13.5	2-23	14.0	2-24	14.0	2-24	13.0	2-16	13.0	2-17
17-6	14.0	2-24	14.0	2-24	14.5	2-25	13.5	2-17	13.5	2-18
18-0	14.0	2-24	14.5	2-25	14.5	2-25	13.5	2-17	14.0	2-19
18-6	14.5	2-25	14.5	2-25	15.0	2-26	14.0	2-18	14.5	2-19
19-0	14.5	2-25	15.0	2-26	15.0	2-26	14.0	2-18	14.5	2-19
19-6	15.0	2-26	15.5	2-26	15.5	2-26	14.5	2-18	15.0	2-19
20-0	15.5	2-26	15.5	2-26	16.0	2-27	15.5	2-19	15.5	2-19
21-0	16.0	2-27	16.0	2-27	16.5	2-27	16.0	2-19	16.0	2-20
22-0	16.5	2-27	17.0	2-28	17.0	2-28	16.5	2-19	16.5	2-20
23-0	17.0	2-28	17.5	2-29	17.5	2-29	17.0	2-20	17.0	2-22
24-0	17.5	2-29	18.0	2-30	18.0	2-30	17.5	2-21	17.5	2-22
25-0	18.0	2-30	18.5	2-30	19.0	2-31	18.0	2-22	18.0	2-23
26-0	19.0	2-31	19.5	2-32	19.5	2-32	19.0	2-22	19.0	2-24
27-0	19.5	2-32	20.0	2-32	20.5	2-33	19.5	2-23	19.5	2-24
28-0	20.0	2-32	20.5	2-33	21.0	2-33	20.0	2-23	20.0	2-25
29-0	21.0	2-33	21.5	2-34	22.0	2-34	20.5	2-24	20.5	2-26
30-0	21.5	2-34	22.0	2-34	22.5	2-36	21.0	2-25	21.0	2-26



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

150 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.174		0.202		0.232		0.264		0.298	
C to C Beams	6'-6"		7'-0"		7'-6"		8'-0"		8'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	9.0	2-8	9.0	2-8	9.0	2-9	9.0	2-10	..	..
8-6	9.0	2-9	9.0	2-9	9.0	2-10	9.0	2-11	9.0	2-12
9-0	9.0	2-10	9.0	2-10	9.0	2-11	9.0	2-12	9.0	2-12
9-6	9.0	2-11	9.0	2-11	9.0	2-12	9.0	2-12	9.0	2-13
10-0	9.0	2-12	9.0	2-12	9.0	2-13	9.0	2-14	9.0	2-14
10-6	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-14	9.5	2-15
11-0	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-15	9.5	2-16
11-6	10.0	2-13	10.0	2-14	10.0	2-15	10.0	2-16	10.0	2-17
12-0	10.0	2-14	10.0	2-15	10.0	2-16	10.0	2-17	10.0	2-17
12-6	10.5	2-14	10.5	2-15	10.5	2-16	10.5	2-17	10.5	2-18
13-0	10.5	2-15	10.5	2-16	10.5	2-17	10.5	2-18	11.0	2-19
13-6	11.0	2-15	11.0	2-16	11.0	2-17	11.0	2-18	11.5	2-19
14-0	11.5	2-16	11.5	2-17	11.5	2-18	12.0	2-19	12.0	2-19
14-6	11.5	2-17	11.5	2-18	12.0	2-18	12.0	2-19	12.0	2-20
15-0	12.0	2-17	12.0	2-18	12.5	2-19	12.5	2-19	12.5	2-20
15-6	12.0	2-17	12.5	2-19	12.5	2-19	12.5	2-20	12.5	2-21
16-0	12.5	2-18	13.0	2-19	13.0	2-19	13.0	2-20	13.0	2-21
16-6	13.0	2-18	13.5	2-19	13.5	2-19	13.5	2-20	13.5	2-21
17-0	13.5	2-19	13.5	2-19	13.5	2-20	13.5	2-21	13.5	2-22
17-6	14.0	2-19	14.0	2-19	14.0	2-20	14.0	2-21	14.0	2-22
18-0	14.0	2-19	14.0	2-20	14.0	2-21	14.0	2-22	14.0	2-23
18-6	14.5	2-19	14.5	2-20	14.5	2-22	14.5	2-23	14.5	2-24
19-0	14.5	2-20	14.5	2-21	14.5	2-22	14.5	2-23	14.5	2-24
19-6	15.0	2-20	15.0	2-21	15.0	2-22	15.0	2-23	15.0	2-24
20-0	15.5	2-20	15.5	2-21	15.5	2-23	15.5	2-24	15.5	2-25
21-0	16.0	2-21	16.0	2-22	16.0	2-23	16.0	2-25	16.0	2-26
22-0	16.5	2-22	16.5	2-23	16.5	2-24	16.5	2-25	16.5	2-26
23-0	17.0	2-23	17.0	2-24	17.0	2-25	17.0	2-26	17.0	2-27
24-0	17.5	2-24	17.5	2-25	17.5	2-26	17.5	2-27	17.5	2-28
25-0	18.0	2-24	18.0	2-26	18.0	2-26	18.0	2-27	18.0	2-28
26-0	19.0	2-25	19.0	2-26	19.0	2-27	19.0	2-28	19.0	2-29
27-0	19.5	2-26	19.5	2-26	19.5	2-27	19.5	2-29	19.5	2-30
28-0	20.0	2-26	20.0	2-27	20.0	2-28	20.0	2-29	20.0	2-31
29-0	20.5	2-26	20.5	2-27	20.5	2-29	20.5	2-30	20.5	2-31
30-0	21.0	2-27	21.0	2-28	21.0	2-30	21.0	2-31	21.0	2-32

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

150 Lbs.

200 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.334		0.372		0.412		0.127		0.154	
C to C Beams	9'-0"		9'-6"		10'-0"		5'-0"		5'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	8.0	2-4	9.0	2-6
7-6	. .	. .	. .	. .	. .	. .	9.0	2-6	9.0	2-7
8-0	. .	. .	. .	. .	. .	. .	9.0	2-7	9.0	2-8
8-6	. .	. .	. .	. .	. .	. .	9.0	2-8	9.0	2-9
9-0	9.0	2-12	. .	. .	. .	. .	9.0	2-9	9.0	2-10
9-6	9.0	2-14	9.0	2-14	. .	. .	9.0	2-10	9.0	2-11
10-0	9.0	2-15	9.0	2-16	9.5	2-17	9.0	2-12	9.0	2-12
10-6	9.5	2-17	9.5	2-17	9.5	2-17	9.5	2-12	9.5	2-12
11-0	9.5	2-17	9.5	2-18	10.0	2-18	9.5	2-12	9.5	2-13
11-6	10.0	2-18	10.0	2-18	10.0	2-18	10.0	2-12	10.0	2-14
12-0	10.0	2-18	11.0	2-19	11.0	2-19	10.0	2-13	10.0	2-14
12-6	11.0	2-19	11.0	2-19	11.5	2-19	10.5	2-14	10.5	2-15
13-0	11.5	2-19	11.5	2-19	11.5	2-19	10.5	2-14	10.5	2-16
13-6	11.5	2-19	12.0	2-20	12.0	2-20	11.0	2-14	11.0	2-16
14-0	12.0	2-20	12.0	2-21	12.5	2-21	11.5	2-15	11.5	2-16
14-6	12.0	2-21	12.5	2-21	12.5	2-22	11.5	2-16	11.5	2-17
15-0	12.5	2-21	12.5	2-22	13.0	2-22	12.0	2-16	12.0	2-17
15-6	12.5	2-22	13.0	2-22	13.0	2-23	12.0	2-17	12.0	2-18
16-0	13.0	2-23	13.5	2-23	13.5	2-23	12.5	2-17	12.5	2-18
16-6	13.5	2-23	13.5	2-23	14.0	2-24	13.0	2-17	13.5	2-19
17-0	13.5	2-23	14.0	2-24	14.0	2-24	13.0	2-18	13.5	2-19
17-6	14.0	2-24	14.0	2-24	14.5	2-25	13.5	2-18	14.0	2-19
18-0	14.0	2-24	14.5	2-25	15.0	2-26	14.0	2-19	14.0	2-19
18-6	14.5	2-25	15.0	2-26	15.0	2-26	14.5	2-19	14.5	2-20
19-0	15.0	2-26	15.0	2-26	15.5	2-26	14.5	2-19	14.5	2-20
19-6	15.0	2-26	15.5	2-26	15.5	2-26	15.0	2-19	15.0	2-21
20-0	15.5	2-26	15.5	2-26	16.0	2-27	15.5	2-19	15.5	2-21
21-0	16.0	2-27	16.5	2-27	16.5	2-27	16.0	2-20	16.0	2-22
22-0	16.5	2-27	17.0	2-28	17.5	2-29	16.5	2-21	16.5	2-22
23-0	17.0	2-28	17.5	2-29	18.0	2-30	17.0	2-22	17.0	2-24
24-0	18.0	2-30	18.0	2-30	18.5	2-30	17.5	2-23	17.5	2-25
25-0	18.5	2-30	19.0	2-31	19.5	2-32	18.0	2-23	18.0	2-25
26-0	19.0	2-31	19.5	2-32	20.0	2-32	19.0	2-24	19.0	2-26
27-0	20.0	2-32	20.0	2-32	21.0	2-33	19.5	2-25	19.5	2-26
28-0	20.5	2-33	21.0	2-33	21.5	2-34	20.0	2-25	20.0	2-26
29-0	21.0	2-33	21.5	2-34	22.0	2-34	20.5	2-26	20.5	2-27
30-0	22.0	2-34	22.5	2-36	23.0	2-36	21.0	2-26	21.0	2-28

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

200 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.183		0.214		0.249		0.285		0.325	
C to C Beams	6'-0"		6'-6"		7'-0"		7'-6"		8'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	9.0	2-6	9.0	2-7	9.0	2-8	. .	. .	. .	. .
7-6	9.0	2-8	9.0	2-8	9.0	2-9	9.0	2-10	. .	. .
8-0	9.0	2-9	9.0	2-10	9.0	2-10	9.0	2-11	9.0	2-12
8-6	9.0	2-10	9.0	2-11	9.0	2-12	9.0	2-12	9.0	2-12
9-0	9.0	2-11	9.0	2-12	9.0	2-12	9.0	2-13	9.0	2-13
9-6	9.0	2-12	9.0	2-12	9.0	2-13	9.0	2-14	9.0	2-15
10-0	9.0	2-13	9.0	2-14	9.0	2-15	9.0	2-15	9.0	2-17
10-6	9.5	2-13	9.5	2-14	9.5	2-15	9.5	2-17	9.5	2-17
11-0	9.5	2-14	9.5	2-15	9.5	2-16	9.5	2-17	9.5	2-18
11-6	10.0	2-15	10.0	2-16	10.0	2-17	10.0	2-18	10.0	2-18
12-0	10.0	2-15	10.0	2-17	10.0	2-18	11.0	2-19	11.0	2-19
12-6	10.5	2-16	10.5	2-17	10.5	2-18	11.0	2-19	11.5	2-19
13-0	10.5	2-17	10.5	2-18	11.0	2-19	11.5	2-19	11.5	2-19
13-6	11.0	2-17	11.0	2-18	11.5	2-19	11.5	2-19	11.5	2-20
14-0	11.5	2-18	12.0	2-19	12.0	2-19	12.0	2-20	12.0	2-21
14-6	11.5	2-18	12.0	2-19	12.0	2-20	12.0	2-21	12.5	2-22
15-0	12.5	2-19	12.5	2-19	12.5	2-20	12.5	2-22	13.0	2-22
15-6	12.5	2-19	12.5	2-20	12.5	2-21	13.0	2-22	13.0	2-23
16-0	13.0	2-19	13.0	2-20	13.0	2-21	13.0	2-23	13.5	2-23
16-6	13.5	2-19	13.5	2-20	13.5	2-22	13.5	2-23	13.5	2-23
17-6	13.5	2-20	13.5	2-21	13.5	2-22	13.5	2-23	14.0	2-24
17-6	14.0	2-20	14.0	2-21	14.0	2-23	14.0	2-24	14.5	2-25
18-0	14.0	2-21	14.0	2-22	14.0	2-23	14.5	2-25	14.5	2-25
18-6	14.5	2-21	14.5	2-23	14.5	2-24	14.5	2-25	15.0	2-26
19-0	14.5	2-22	14.5	2-23	14.5	2-25	15.0	2-26	15.5	2-26
19-6	15.0	2-22	15.0	2-23	15.0	2-25	15.0	2-26	15.5	2-26
20-0	15.5	2-22	15.5	2-24	15.5	2-25	15.5	2-26	16.0	2-27
21-0	16.0	2-23	16.0	2-25	16.0	2-26	16.0	2-27	16.5	2-27
22-0	16.5	2-24	16.5	2-25	16.5	2-26	16.5	2-27	17.0	2-28
23-0	17.0	2-25	17.0	2-26	17.0	2-27	17.5	2-29	18.0	2-30
24-0	17.5	2-26	17.5	2-27	17.5	2-28	18.0	2-30	18.5	2-30
25-0	18.0	2-26	18.0	2-27	18.0	2-29	18.5	2-30	19.0	2-31
26-0	19.0	2-28	19.0	2-28	19.0	2-29	19.5	2-32	20.0	2-32
27-0	19.5	2-27	19.5	2-29	19.5	2-30	20.0	2-32	20.5	2-33
28-0	20.0	2-28	20.0	2-29	20.0	2-31	20.5	2-33	21.0	2-33
29-0	20.5	2-29	20.5	2-30	20.5	2-32	21.5	2-34	22.0	2-34
30-0	21.0	2-29	21.0	2-31	21.0	2-33	22.0	2-34	22.5	2-35

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

200 Lbs.

250 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.367		0.411		0.122		0.151		0.182	
C to C Beams	8'-6"		9'-0"		4'-6"		5'-0"		5'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	9.0	2-5	9.0	2-6	9.0	2-7
7-6	..	..	..	..	9.0	2-7	9.0	2-8	9.0	2-8
8-0	..	..	..	..	9.0	2-8	9.0	2-9	9.0	2-10
8-6	9.0	2-13	..	..	9.0	2-9	9.0	2-10	9.0	2-11
9-0	9.0	2-14	9.0	2-15	9.0	2-10	9.0	2-11	9.0	2-12
9-6	9.0	2-16	9.5	2-17	9.0	2-11	9.0	2-12	9.0	2-12
10-0	9.5	2-17	9.5	2-17	9.0	2-12	9.0	2-13	9.0	2-14
10-6	10.0	2-18	10.0	2-18	9.5	2-12	9.5	2-13	9.5	2-14
11-0	10.0	2-18	11.0	2-19	9.5	2-13	9.5	2-14	9.5	2-15
11-6	11.0	2-19	11.0	2-19	10.0	2-13	10.0	2-15	10.0	2-16
12-0	11.0	2-19	11.5	2-19	10.0	2-14	10.0	2-15	10.0	2-17
12-6	11.5	2-19	12.0	2-20	10.5	2-15	10.5	2-16	10.5	2-17
13-0	12.0	2-20	12.0	2-21	10.5	2-15	10.5	2-17	10.5	2-18
13-6	12.0	2-21	12.5	2-21	11.0	2-15	11.0	2-17	11.0	2-18
14-0	12.5	2-21	12.5	2-22	11.5	2-16	11.5	2-17	12.0	2-19
14-6	13.0	2-22	13.0	2-23	11.5	2-17	11.5	2-18	12.0	2-19
15-0	13.0	2-23	13.5	2-23	12.0	2-17	12.5	2-19	12.5	2-19
15-6	13.5	2-23	13.5	2-23	12.0	2-18	12.5	2-19	12.5	2-20
16-0	13.5	2-23	14.0	2-24	12.5	2-18	13.0	2-19	13.0	2-20
16-6	14.0	2-24	14.5	2-25	13.0	2-18	13.5	2-19	13.5	2-20
17-0	14.5	2-25	14.5	2-25	13.5	2-19	13.5	2-19	13.5	2-21
17-6	14.5	2-25	15.0	2-26	14.0	2-19	14.0	2-20	14.0	2-21
18-0	15.0	2-26	15.5	2-26	14.0	2-19	14.0	2-21	14.0	2-22
18-6	15.5	2-26	15.5	2-26	14.5	2-19	14.5	2-21	14.5	2-23
19-0	15.5	2-26	16.0	2-27	14.5	2-20	14.5	2-22	14.5	2-23
19-6	16.0	2-27	16.5	2-27	15.0	2-20	15.0	2-22	15.0	2-24
20-0	16.5	2-27	16.5	2-27	15.5	2-20	15.5	2-22	15.5	2-24
21-0	17.0	2-28	17.5	2-29	16.0	2-21	16.0	2-23	16.0	2-25
22-0	17.5	2-29	18.0	2-30	16.5	2-22	16.5	2-24	16.5	2-25
23-0	18.5	2-30	18.5	2-30	17.0	2-23	17.0	2-25	17.0	2-26
24-0	19.0	2-31	19.5	2-32	17.5	2-24	17.5	2-26	17.5	2-27
25-0	19.5	2-32	20.0	2-32	18.0	2-25	18.0	2-26	18.0	2-27
26-0	20.5	2-33	21.0	2-33	19.0	2-25	19.0	2-26	19.0	2-28
27-0	21.0	2-33	21.5	2-34	19.5	2-26	19.5	2-27	19.5	2-29
28-0	22.0	2-34	22.5	2-35	20.0	2-26	20.0	2-28	20.0	2-30
29-0	22.5	2-35	23.5	2-36	20.5	2-26	20.5	2-28	20.5	2-30
30-0	23.5	2-36	24.5	2-37	21.0	2-27	21.0	2-29	21.0	2-31

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

250 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.217		0.255		0.295		0.339		0.386	
C to C Beams	6'-0"		6'-6"		7'-0"		7'-6"		8'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	9.0	2-8	9.0	2-8	9.0	2-9	. .	. .	. .	. .
7-6	9.0	2-9	9.0	2-10	9.0	2-11	9.0	2-11	. .	. .
8-0	9.0	2-11	9.0	2-11	9.0	2-12	9.0	2-12	9.0	2-13
8-6	9.0	2-12	9.0	2-12	9.0	2-12	9.0	2-13	9.0	2-14
9-0	9.0	2-12	9.0	2-13	9.0	2-14	9.0	2-15	9.0	2-16
9-6	9.0	2-13	9.0	2-14	9.0	2-15	9.5	2-16	9.5	2-17
10-0	9.0	2-15	9.0	2-16	9.5	2-17	9.5	2-17	10.0	2-18
10-6	9.5	2-16	9.5	2-17	9.5	2-17	10.0	2-18	10.0	2-18
11-0	9.5	2-16	10.0	2-18	10.0	2-18	10.0	2-18	11.0	2-19
11-6	10.0	2-17	10.0	2-18	11.0	2-19	11.0	2-19	11.5	2-19
12-0	10.0	2-18	11.0	2-19	11.0	2-19	11.5	2-19	11.5	2-19
12-6	11.0	2-19	11.0	2-19	11.5	2-19	11.5	2-19	12.0	2-20
13-0	11.0	2-19	11.5	2-19	12.0	2-20	12.0	2-21	12.5	2-21
13-6	11.5	2-19	12.0	2-20	12.0	2-21	12.5	2-21	12.5	2-22
14-0	12.0	2-19	12.0	2-21	12.5	2-21	12.5	2-22	13.0	2-22
14-6	12.0	2-20	12.5	2-21	12.5	2-22	13.0	2-23	13.5	2-23
15-0	12.5	2-20	12.5	2-22	13.0	2-23	13.5	2-23	13.5	2-23
15-6	12.5	2-21	13.0	2-22	13.5	2-23	13.5	2-23	14.0	2-24
16-0	13.0	2-21	13.5	2-23	13.5	2-23	14.0	2-24	14.5	2-25
16-6	13.5	2-22	13.5	2-23	14.0	2-24	14.5	2-25	14.5	2-25
17-0	13.5	2-22	14.0	2-24	14.5	2-25	14.5	2-25	15.0	2-26
17-6	14.0	2-23	14.0	2-24	14.5	2-25	15.0	2-26	15.5	2-26
18-0	14.0	2-24	14.5	2-25	15.0	2-26	15.5	2-26	15.5	2-26
18-6	14.5	2-24	15.0	2-26	15.0	2-26	15.5	2-26	16.0	2-27
19-0	14.5	2-25	15.0	2-26	15.5	2-26	16.0	2-27	16.5	2-27
19-6	15.0	2-25	15.5	2-26	16.0	2-27	16.5	2-27	16.5	2-27
20-0	15.5	2-25	15.5	2-26	16.0	2-27	16.5	2-27	17.0	2-28
21-0	16.0	2-26	16.5	2-27	17.0	2-28	17.0	2-28	17.5	2-29
22-0	16.5	2-26	17.0	2-28	17.5	2-29	18.0	2-30	18.5	2-30
23-0	17.0	2-27	17.5	2-29	18.0	2-30	18.5	2-30	19.0	2-31
24-0	17.5	2-28	18.0	2-30	18.0	2-30	19.5	2-32	20.0	2-32
25-0	18.0	2-29	19.0	2-31	19.0	2-31	20.0	2-32	20.5	2-33
26-0	19.0	2-30	19.5	2-32	19.5	2-32	20.5	2-33	21.5	2-34
27-0	19.5	2-31	20.0	2-32	21.0	2-33	21.5	2-34	22.0	2-34
28-0	20.0	2-31	21.0	2-33	21.5	2-34	22.5	2-36	23.0	2-36
29-0	20.5	2-32	21.5	2-34	22.5	2-36	23.0	2-36	24.5	2-37
30-0	21.0	2-33	22.5	2-36	23.5	2-36	24.5	2-37	25.5	2-37

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

250 Lbs.

300 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.436		0.141		0.175		0.211		0.251	
C to C Beams	8'-6"		4'-6"		5'-0"		5'-6"		6'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	8.0	2-4	9.0	2-5	9.0	2-5	9.0	2-6
6-6	. .	. .	9.0	2-5	9.0	2-6	9.0	2-7	9.0	2-8
7-0	. .	. .	9.0	2-7	9.0	2-8	9.0	2-8	9.0	2-9
7-6	. .	. .	9.0	2-8	9.0	2-9	9.0	2-10	9.0	2-11
8-0	. .	. .	9.0	2-9	9.0	2-10	9.0	2-11	9.0	2-12
8-6	9.0	2-15	9.0	2-10	9.0	2-12	9.0	2-12	9.0	2-12
9-0	9.5	2-17	9.0	2-11	9.0	2-12	9.0	2-13	9.0	2-14
9-6	9.5	2-17	9.0	2-12	9.0	2-13	9.0	2-14	9.0	2-15
10-0	10.0	2-18	9.0	2-13	9.0	2-14	9.0	2-16	9.5	2-17
10-6	11.0	2-19	9.5	2-14	9.5	2-15	9.5	2-17	9.5	2-17
11-0	11.0	2-19	9.5	2-14	9.5	2-16	9.5	2-17	10.0	2-18
11-6	11.5	2-19	10.0	2-15	10.0	2-17	10.0	2-18	11.0	2-19
12-0	12.0	2-20	10.0	2-16	10.0	2-17	11.0	2-19	11.0	2-19
12-6	12.0	2-21	10.5	2-17	10.5	2-18	11.0	2-19	11.5	2-19
13-0	12.5	2-22	10.5	2-17	11.0	2-19	11.5	2-19	11.5	2-19
13-6	13.0	2-22	11.0	2-17	11.5	2-19	11.5	2-19	12.0	2-21
14-0	13.5	2-23	11.5	2-18	12.0	2-19	12.0	2-20	12.5	2-21
14-6	13.5	2-23	12.0	2-19	12.0	2-19	12.5	2-21	12.5	2-22
15-0	14.0	2-24	12.5	2-19	12.5	2-20	12.5	2-22	13.0	2-22
15-6	14.5	2-25	12.5	2-19	12.5	2-20	13.0	2-22	13.5	2-23
16-0	14.5	2-25	13.0	2-19	13.0	2-21	13.0	2-23	13.5	2-23
16-6	15.0	2-26	13.5	2-20	13.5	2-21	13.5	2-23	14.0	2-24
17-0	15.5	2-26	13.5	2-20	13.5	2-22	14.0	2-24	14.0	2-24
17-6	15.5	2-26	14.0	2-21	14.0	2-22	14.0	2-24	14.5	2-25
18-0	16.0	2-27	14.0	2-21	14.0	2-23	14.5	2-25	15.0	2-26
18-6	16.5	2-27	14.5	2-22	14.5	2-24	14.5	2-25	15.0	2-26
19-0	16.5	2-27	14.5	2-22	14.5	2-24	15.0	2-26	15.5	2-26
19-6	17.0	2-28	15.0	2-23	15.0	2-24	15.5	2-26	16.0	2-27
20-0	17.5	2-29	15.5	2-23	15.5	2-25	15.5	2-26	16.0	2-27
21-0	18.0	2-30	16.0	2-24	16.0	2-26	16.0	2-27	16.5	2-27
22-0	19.0	2-31	16.5	2-24	16.5	2-26	17.0	2-28	17.5	2-29
23-0	19.5	2-32	17.0	2-26	17.0	2-27	17.5	2-29	18.0	2-30
24-0	20.5	2-33	17.5	2-26	17.5	2-28	18.0	2-30	18.5	2-30
25-0	21.0	2-33	18.0	2-26	18.0	2-28	18.5	2-30	19.5	2-32
26-0	22.0	2-34	19.0	2-27	19.0	2-29	19.0	2-31	20.0	2-32
27-0	23.0	3-26	19.5	2-28	19.5	2-30	20.0	2-32	21.0	2-33
28-0	23.5	3-26	20.0	2-28	20.0	2-31	20.5	2-33	21.5	2-34
29-0	24.5	3-27	20.5	2-29	20.5	2-31	21.5	2-34	22.5	3-26
30-0	25.5	3-27	21.0	2-30	21.0	2-32	22.0	2-34	23.0	3-26

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

300 Lbs.

350 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.295		0.342		0.393		0.447		0.127	
C to C Beams	6'-6"		7'-0"		7'-6"		8'-0"		4'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	8.0	2-4
6-6	9.0	2-8	. .	. .	. .	. .	. .	. .	9.0	2-5
7-0	9.0	2-10	9.0	2-11	. .	. .	. .	. .	9.0	2-7
7-6	9.0	2-12	9.0	2-12	9.0	2-12	. .	. .	9.0	2-8
8-0	9.0	2-12	9.0	2-13	9.0	2-14	9.0	2-15	9.0	2-9
8-6	9.0	2-13	9.0	2-14	9.0	2-15	9.5	2-17	9.0	2-10
9-0	9.0	2-15	9.0	2-16	9.5	2-17	9.5	2-17	9.0	2-11
9-6	9.5	2-17	9.5	2-17	9.5	2-17	10.0	2-18	9.0	2-12
10-0	9.5	2-17	10.0	2-18	10.0	2-18	11.0	2-19	9.0	2-13
10-6	10.0	2-18	10.0	2-18	11.0	2-19	11.0	2-19	9.5	2-14
11-0	11.0	2-19	11.0	2-19	11.5	2-19	11.5	2-19	9.5	2-15
11-6	11.0	2-19	11.5	2-19	11.5	2-19	12.0	2-20	10.0	2-15
12-0	11.5	2-19	11.5	2-19	12.0	2-20	12.0	2-21	10.0	2-16
12-6	11.5	2-19	12.0	2-21	12.5	2-21	12.5	2-22	10.5	2-17
13-0	12.0	2-21	12.5	2-21	12.5	2-22	13.0	2-22	10.5	2-17
13-6	12.5	2-21	12.5	2-22	13.0	2-23	13.5	2-23	11.0	2-17
14-0	12.5	2-22	13.0	2-23	13.5	2-23	13.5	2-23	11.5	2-18
14-6	13.0	2-23	13.5	2-23	13.5	2-23	14.0	2-24	12.0	2-19
15-0	13.5	2-23	13.5	2-23	14.0	2-24	14.5	2-25	12.5	2-19
15-6	13.5	2-23	14.0	2-24	14.5	2-25	15.0	2-26	12.5	2-19
16-0	14.0	2-24	14.5	2-25	15.0	2-26	15.0	2-26	13.0	2-19
16-6	14.5	2-25	14.5	2-25	15.0	2-26	15.5	2-26	13.5	2-20
17-0	14.5	2-25	15.0	2-26	15.5	2-26	16.0	2-27	13.5	2-20
17-6	15.0	2-26	15.5	2-26	16.0	2-27	16.0	2-27	14.0	2-21
18-0	15.5	2-26	15.5	2-26	16.0	2-27	16.5	2-27	14.0	2-21
18-6	15.5	2-26	16.0	2-27	16.5	2-27	17.0	2-28	14.5	2-22
19-0	16.0	2-27	16.5	2-27	17.0	2-28	17.5	2-29	14.5	2-23
19-6	16.5	2-27	16.5	2-27	17.0	2-28	17.5	2-29	15.0	2-23
20-0	16.5	2-27	17.0	2-28	17.5	2-29	18.0	2-30	15.5	2-23
21-0	17.5	2-29	18.0	2-30	18.5	2-30	19.0	2-31	16.0	2-24
22-0	18.0	2-30	18.5	2-30	19.0	2-31	19.5	2-32	16.5	2-24
23-0	18.5	2-30	19.0	2-31	20.0	2-32	20.5	2-33	17.0	2-26
24-0	19.5	2-32	20.0	2-32	20.5	2-33	21.0	2-33	17.5	2-26
25-0	20.0	2-32	20.5	2-33	21.5	2-34	22.0	2-34	18.0	2-27
26-0	21.0	2-33	21.5	2-34	22.5	2-36	23.0	2-36	19.0	2-27
27-0	21.5	2-34	22.5	2-36	23.0	2-36	24.5	2-37	19.5	2-28
28-0	22.5	2-36	23.5	2-36	24.5	2-37	25.5	2-37	20.0	2-29
29-0	23.0	2-36	24.5	2-37	25.5	2-37	25.5	2-37	20.5	2-29
30-0	24.5	2-37	25.5	2-37	26.5	2-38	26.5	2-38	21.0	2-30

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

300 Lbs.

350 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.295		0.342		0.393		0.447		0.127	
C to C Beams	6'-6"		7'-0"		7'-6"		8'-0"		4'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	8.0	2-4
6-6	9.0	2-8	. .	. .	. .	. .	. .	. .	9.0	2-5
7-0	9.0	2-10	9.0	2-11	. .	. .	. .	. .	9.0	2-7
7-6	9.0	2-12	9.0	2-12	9.0	2-12	. .	. .	9.0	2-8
8-0	9.0	2-12	9.0	2-13	9.0	2-14	9.0	2-15	9.0	2-9
8-6	9.0	2-13	9.0	2-14	9.0	2-15	9.5	2-17	9.0	2-10
9-0	9.0	2-15	9.0	2-16	9.5	2-17	9.5	2-17	9.0	2-11
9-6	9.5	2-17	9.5	2-17	9.5	2-17	10.0	2-18	9.0	2-12
10-0	9.5	2-17	10.0	2-18	10.0	2-18	11.0	2-19	9.0	2-13
10-6	10.0	2-18	10.0	2-18	11.0	2-19	11.0	2-19	9.5	2-14
11-0	11.0	2-19	11.0	2-19	11.5	2-19	11.5	2-19	9.5	2-15
11-6	11.0	2-19	11.5	2-19	11.5	2-19	12.0	2-20	10.0	2-15
12-0	11.5	2-19	11.5	2-19	12.0	2-20	12.0	2-21	10.0	2-16
12-6	11.5	2-19	12.0	2-21	12.5	2-21	12.5	2-22	10.5	2-17
13-0	12.0	2-21	12.5	2-21	12.5	2-22	13.0	2-22	10.5	2-17
13-6	12.5	2-21	12.5	2-22	13.0	2-23	13.5	2-23	11.0	2-17
14-0	12.5	2-22	13.0	2-23	13.5	2-23	13.5	2-23	11.5	2-18
14-6	13.0	2-23	13.5	2-23	13.5	2-23	14.0	2-24	12.0	2-19
15-0	13.5	2-23	13.5	2-23	14.0	2-24	14.5	2-25	12.5	2-19
15-6	13.5	2-23	14.0	2-24	14.5	2-25	15.0	2-26	12.5	2-19
16-0	14.0	2-24	14.5	2-25	15.0	2-26	15.0	2-26	13.0	2-19
16-6	14.5	2-25	14.5	2-25	15.0	2-26	15.5	2-26	13.5	2-20
17-0	14.5	2-25	15.0	2-26	15.5	2-26	16.0	2-27	13.5	2-20
17-6	15.0	2-26	15.5	2-26	16.0	2-27	16.0	2-27	14.0	2-21
18-0	15.5	2-26	15.5	2-26	16.0	2-27	16.5	2-27	14.0	2-21
18-6	15.5	2-26	16.0	2-27	16.5	2-27	17.0	2-28	14.5	2-22
19-0	16.0	2-27	16.5	2-27	17.0	2-28	17.5	2-29	14.5	2-23
19-6	16.5	2-27	16.5	2-27	17.0	2-28	17.5	2-29	15.0	2-23
20-0	16.5	2-27	17.0	2-28	17.5	2-29	18.0	2-30	15.5	2-23
21-0	17.5	2-29	18.0	2-30	18.5	2-30	19.0	2-31	16.0	2-24
22-0	18.0	2-30	18.5	2-30	19.0	2-31	19.5	2-32	16.5	2-24
23-0	18.5	2-30	19.0	2-31	20.0	2-32	20.5	2-33	17.0	2-26
24-0	19.5	2-32	20.0	2-32	20.5	2-33	21.0	2-33	17.5	2-26
25-0	20.0	2-32	20.5	2-33	21.5	2-34	22.0	2-34	18.0	2-27
26-0	21.0	2-33	21.5	2-34	22.5	2-36	23.0	2-36	19.0	2-27
27-0	21.5	2-34	22.5	2-36	23.0	2-36	24.5	2-37	19.5	2-28
28-0	22.5	2-36	23.5	2-36	24.5	2-37	25.5	2-37	20.0	2-29
29-0	23.0	2-36	24.5	2-37	25.5	2-37	25.5	2-37	20.5	2-29
30-0	24.5	2-37	25.5	2-37	26.5	2-38	26.5	2-38	21.0	2-30



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

350 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.161		0.198		0.240		0.286		0.335	
C to C Beams	4'-6"		5'-0"		5'-6"		6'-0"		6'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	9.0	2-5	9.0	2-6	9.0	2-7	9.0	2-7		
6-6	9.0	2-6	9.0	2-7	9.0	2-8	9.0	2-9	9.0	2-10
7-0	9.0	2-8	9.0	2-9	9.0	2-10	9.0	2-10	9.0	2-11
7-6	9.0	2-9	9.0	2-10	9.0	2-11	9.0	2-12	9.0	2-12
8-0	9.0	2-10	9.0	2-11	9.0	2-12	9.0	2-12	9.0	2-14
8-6	9.0	2-12	9.0	2-12	9.0	2-13	9.0	2-14	9.0	2-15
9-0	9.0	2-12	9.0	2-13	9.0	2-14	9.0	2-16	9.5	2-17
9-6	9.0	2-13	9.0	2-15	9.0	2-16	9.5	2-17	9.5	2-17
10-0	9.0	2-15	9.0	2-16	9.5	2-17	10.0	2-18	10.0	2-18
10-6	9.5	2-15	9.5	2-17	10.0	2-18	10.0	2-18	11.0	2-19
11-0	9.5	2-16	10.0	2-18	10.0	2-18	11.0	2-19	11.0	2-19
11-6	10.0	2-17	10.0	2-18	11.0	2-19	11.5	2-19	11.5	2-19
12-0	10.0	2-18	11.0	2-19	11.5	2-19	11.5	2-19	12.0	2-20
12-6	10.5	2-18	11.0	2-19	11.5	2-19	12.0	2-20	12.5	2-21
13-0	11.0	2-19	11.5	2-19	12.0	2-20	12.5	2-21	12.5	2-22
13-6	11.5	2-19	12.0	2-20	12.0	2-21	12.5	2-22	13.0	2-22
14-0	12.0	2-19	12.0	2-21	12.5	2-22	13.0	2-22	13.5	2-23
14-6	12.0	2-20	12.5	2-21	13.0	2-22	13.0	2-23	13.5	2-23
15-0	12.5	2-20	12.5	2-22	13.0	2-23	13.5	2-23	14.0	2-24
15-6	12.5	2-21	13.0	2-23	13.5	2-23	14.0	2-24	14.5	2-25
16-0	13.0	2-21	13.5	2-23	14.0	2-24	14.0	2-24	14.5	2-25
16-6	13.5	2-22	13.5	2-23	14.0	2-24	14.5	2-25	15.0	2-26
17-0	13.5	2-22	14.0	2-24	14.5	2-25	15.0	2-26	15.5	2-26
17-6	14.0	2-23	14.5	2-25	15.0	2-26	15.0	2-26	15.5	2-26
18-0	14.0	2-23	14.5	2-25	15.0	2-26	15.5	2-26	16.0	2-27
18-6	14.5	2-24	15.0	2-26	15.0	2-26	16.0	2-27	16.5	2-27
19-0	14.5	2-25	15.0	2-26	15.5	2-26	16.0	2-27	17.0	2-28
19-6	15.0	2-25	15.5	2-26	16.0	2-27	16.5	2-27	17.0	2-28
20-0	15.5	2-25	16.0	2-27	16.5	2-27	17.0	2-28	17.5	2-29
21-0	16.0	2-26	16.5	2-27	17.0	2-28	17.5	2-29	18.0	2-30
22-0	16.5	2-26	17.0	2-28	17.5	2-29	18.5	2-30	19.0	2-31
23-0	17.0	2-27	17.5	2-29	18.5	2-30	19.0	2-31	19.5	2-32
24-0	17.5	2-28	18.0	2-30	19.0	2-31	19.5	2-32	20.5	2-33
25-0	18.0	2-29	19.0	2-31	19.5	2-32	20.5	2-33	21.0	2-33
26-0	19.0	2-30	19.5	2-32	20.5	2-33	21.0	2-33	22.0	2-34
27-0	19.5	2-30	20.5	2-33	21.0	2-33	22.0	2-34	23.0	2-35
28-0	20.0	2-31	21.0	2-33	22.0	2-34	23.0	2-35	24.5	2-37
29-0	20.5	2-32	21.5	2-34	23.0	2-35	23.5	2-35	25.5	2-37
30-0	21.0	2-33	22.5	2-35	23.5	2-35	24.5	2-37	26.5	2-38

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

350 Lbs.

400 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.389		0.447		0.142		0.180		0.222	
C to C Beams	7'-0"		7'-6"		4'-0"		4'-6"		5'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	9.0	2- 5	9.0	2- 6	9.0	2- 7
6-6	. .	. .	. .	. .	9.0	2- 6	9.0	2- 7	9.0	2- 8
7-0	9.0	2-12	. .	. .	9.0	2- 8	9.0	2- 9	9.0	2-10
7-6	9.0	2-13	9.0	2-14	9.0	2- 9	9.0	2-10	9.0	2-11
8-0	9.0	2-14	9.0	2-16	9.0	2-10	9.0	2-12	9.0	2-12
8-6	9.0	2-16	9.5	2-17	9.0	2-12	9.0	2-12	9.0	2-13
9-0	9.5	2-17	10.0	2-18	9.0	2-12	9.0	2-13	9.0	2-15
9-6	10.0	2-18	10.0	2-18	9.0	2-13	9.0	2-15	9.0	2-16
10-0	11.0	2-19	11.0	2-19	9.0	2-15	9.0	2-16	9.5	2-17
10-6	11.0	2-19	11.5	2-19	9.5	2-15	9.5	2-17	10.0	2-18
11-0	11.5	2-19	12.0	2-20	9.5	2-16	10.0	2-18	10.0	2-18
11-6	12.0	2-20	12.0	2-21	10.0	2-17	10.0	2-18	11.0	2-19
12-0	12.0	2-21	12.5	2-22	10.0	2-18	11.0	2-19	11.5	2-19
12-6	12.5	2-22	13.0	2-22	10.5	2-18	11.5	2-19	11.5	2-19
13-0	13.0	2-22	13.0	2-23	11.0	2-19	11.5	2-19	12.0	2-20
13-6	13.5	2-23	13.5	2-23	11.5	2-19	12.0	2-20	12.5	2-21
14-0	13.5	2-23	14.0	2-24	12.0	2-19	12.0	2-21	12.5	2-22
14-6	14.0	2-24	14.5	2-25	12.0	2-20	12.5	2-21	13.0	2-22
15-0	14.5	2-25	14.5	2-25	12.5	2-20	13.0	2-22	13.0	2-23
15-6	14.5	2-25	15.0	2-26	12.5	2-21	13.0	2-23	13.5	2-23
16-0	15.0	2-26	15.5	2-26	13.0	2-21	13.5	2-23	14.0	2-24
16-6	15.5	2-26	16.0	2-27	13.5	2-22	13.5	2-23	14.0	2-24
17-0	16.0	2-27	16.0	2-27	13.5	2-22	14.0	2-24	14.5	2-25
17-6	16.0	2-27	16.5	2-27	14.0	2-23	14.5	2-25	15.0	2-26
18-0	16.5	2-27	17.0	2-28	14.0	2-23	14.5	2-25	15.0	2-26
18-6	17.0	2-28	17.5	2-29	14.5	2-24	15.0	2-26	15.5	2-26
19-0	17.0	2-28	17.5	2-29	14.5	2-25	15.0	2-26	16.0	2-27
19-6	17.5	2-29	18.0	2-30	15.0	2-25	15.5	2-26	16.0	2-27
20-0	18.0	2-30	18.5	2-30	15.5	2-25	16.0	2-27	16.5	2-27
21-0	18.5	2-30	19.5	2-32	16.0	2-26	16.5	2-27	17.0	2-28
22-0	19.5	2-32	20.0	2-32	16.5	2-26	17.0	2-28	18.0	2-30
23-0	20.5	2-33	21.0	2-33	17.0	2-27	17.5	2-29	18.5	2-30
24-0	21.0	2-33	22.0	2-34	17.5	2-28	18.0	2-30	19.0	2-31
25-0	22.0	2-34	22.5	2-36	18.0	2-29	19.0	2-31	20.0	2-32
26-0	23.0	2-36	23.5	2-36	19.0	2-29	19.5	2-32	20.5	2-33
27-0	24.5	2-37	24.5	2-37	19.5	2-30	20.5	2-33	21.5	2-34
28-0	24.5	2-37	25.5	2-37	20.0	2-31	21.0	2-33	22.0	2-34
29-0	25.5	2-37	26.5	2-38	20.5	2-32	22.0	2-34	23.0	2-36
30-0	26.5	2-38	27.5	2-38	21.0	2-33	22.5	2-36	24.5	2-37

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 5½-inch Slab

Safe Live Load in Pounds per Square Foot

400 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.269		0.320		0.376		0.436	
C to C Beams	5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F
6-0	9.0	2-8	9.0	2-9	. .	. .	. .	. .
6-6	9.0	2-9	9.0	2-10	. .	. .	. .	. .
7-0	9.0	2-11	9.0	2-12	9.0	2-12	. .	. .
7-6	9.0	2-12	9.0	2-12	9.0	2-13	9.0	2-14
8-0	9.0	2-13	9.0	2-14	9.0	2-15	9.0	2-16
8-6	9.0	2-14	9.0	2-16	9.5	2-17	9.5	2-17
9-0	9.0	2-16	9.0	2-17	9.5	2-17	10.0	2-18
9-6	9.5	2-17	10.0	2-18	10.0	2-18	11.0	2-19
10-0	10.0	2-18	10.0	2-18	11.0	2-19	11.0	2-19
10-6	10.0	2-18	11.0	2-19	11.5	2-19	11.5	2-19
11-0	11.0	2-19	11.5	2-19	11.5	2-19	12.0	2-20
11-6	11.5	2-19	11.5	2-19	12.0	2-21	12.5	2-21
12-0	11.5	2-19	12.0	2-21	12.5	2-21	12.5	2-22
12-6	12.0	2-21	12.5	2-21	13.0	2-22	13.0	2-22
13-0	12.5	2-21	13.0	2-22	13.0	2-23	13.5	2-23
13-6	12.5	2-22	13.0	2-23	13.5	2-23	14.0	2-24
14-0	13.0	2-23	13.5	2-23	14.0	2-24	14.0	2-24
14-6	13.5	2-23	14.0	2-24	14.0	2-24	14.5	2-25
15-0	13.5	2-23	14.0	2-24	14.5	2-25	15.0	2-26
15-6	14.0	2-24	14.5	2-25	15.0	2-26	15.5	2-26
16-0	14.5	2-25	15.0	2-26	15.5	2-26	15.5	2-26
16-6	14.5	2-25	15.0	2-26	15.5	2-26	16.0	2-27
17-0	15.0	2-26	15.5	2-26	16.0	2-27	16.5	2-27
17-6	15.5	2-26	16.0	2-27	16.5	2-27	17.0	2-28
18-0	15.5	2-26	16.5	2-27	17.0	2-28	17.5	2-29
18-6	16.0	2-27	16.5	2-27	17.0	2-28	17.5	2-29
19-0	16.5	2-27	17.0	2-28	17.5	2-29	18.0	2-30
19-6	16.5	2-27	17.5	2-29	18.0	2-30	18.5	2-30
20-0	17.0	2-28	17.5	2-29	18.5	2-30	19.0	2-31
21-0	18.0	2-30	18.5	2-30	19.0	2-31	19.5	2-32
22-0	18.5	2-30	19.0	2-31	20.0	2-32	20.5	2-33
23-0	19.0	2-31	20.0	2-32	20.5	2-33	21.5	2-34
24-0	20.0	2-32	20.5	2-33	21.5	2-34	22.0	2-34
25-0	20.5	2-33	21.5	2-34	22.5	2-36	23.5	2-36
26-0	21.5	2-34	22.5	2-36	23.5	2-36	24.5	2-37
27-0	22.5	2-36	23.5	2-36	24.5	2-37	25.5	2-37
28-0	23.5	2-36	24.5	2-37	25.5	2-37	26.5	2-38
29-0	24.5	2-37	25.5	2-37	26.5	2-38	27.5	2-38
30-0	25.5	2-37	26.5	2-38	27.5	2-38	28.5	2-39

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.180		0.146		0.164		0.188		0.202	
C to C Beams	8'-0"		8'-6"		9'-0"		9'-6"		10'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
10-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
10-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
11-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
11-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
12-0	10.0	2-10	10.0	2-10	10.0	2-11	10.0	2-11	10.0	2-12
12-6	10.5	2-10	10.5	2-11	10.5	2-11	10.5	2-12	10.5	2-12
13-0	10.5	2-11	10.5	2-11	10.5	2-12	10.5	2-12	10.5	2-12
13-6	11.0	2-11	11.0	2-11	11.0	2-12	11.0	2-12	11.0	2-12
14-0	11.5	2-11	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-13
14-6	11.5	2-12	11.5	2-12	11.5	2-12	11.5	2-13	11.5	2-14
15-0	12.0	2-12	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-14
15-6	12.0	2-12	12.0	2-12	12.0	2-13	12.0	2-14	12.0	2-14
16-0	12.5	2-12	12.5	2-13	12.5	2-13	12.5	2-14	12.5	2-15
16-6	13.0	2-12	13.0	2-13	13.0	2-14	13.0	2-14	13.0	2-15
17-0	13.0	2-13	13.0	2-13	13.0	2-14	13.0	2-15	13.0	2-16
17-6	13.5	2-13	13.5	2-14	13.5	2-15	13.5	2-15	13.5	2-16
18-0	13.5	2-14	13.5	2-14	13.5	2-15	13.5	2-16	13.5	2-16
18-6	14.0	2-14	14.0	2-15	14.0	2-16	14.0	2-16	14.0	2-17
19-0	14.0	2-14	14.0	2-15	14.0	2-16	14.0	2-17	14.0	2-17
19-6	14.5	2-15	14.5	2-15	14.5	2-16	14.5	2-17	14.5	2-18
20-0	15.0	2-15	15.0	2-16	15.0	2-16	15.0	2-17	15.0	2-18
21-0	15.5	2-16	15.5	2-16	15.5	2-17	15.5	2-18	16.0	2-19
22-0	16.0	2-16	16.0	2-17	16.0	2-18	16.5	2-19	16.5	2-19
23-0	16.5	2-17	16.5	2-18	17.0	2-19	17.0	2-19	17.0	2-19
24-0	17.0	2-18	17.5	2-19	17.5	2-19	17.5	2-19	17.5	2-20
25-0	18.0	2-19	18.0	2-19	18.0	2-19	18.0	2-20	18.0	2-21
26-0	19.0	2-19	19.0	2-19	19.0	2-20	19.0	2-21	19.0	2-22
27-0	19.5	2-19	19.5	2-20	19.5	2-21	19.5	2-22	19.5	2-22
28-0	20.0	2-20	20.0	2-21	20.0	2-22	20.0	2-22	20.0	2-23
29-0	20.5	2-20	20.5	2-21	20.5	2-22	20.5	2-23	20.5	2-24
30-0	21.0	2-21	21.0	2-22	21.0	2-23	21.0	2-24	21.0	2-25

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.223		0.245		0.268		0.292		0.316	
C to C Beams	10'-6"		11'-0"		11'-6"		12'-0"		12'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
10-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
10-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
11-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
11-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
12-0	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-13	. .	. .
12-6	10.5	2-12	10.5	2-13	10.5	2-13	10.5	2-14	10.5	2-14
13-0	10.5	2-13	10.5	2-13	10.5	2-14	10.5	2-14	10.5	2-15
13-6	11.0	2-13	11.0	2-13	11.0	2-14	11.0	2-15	11.0	2-15
14-0	11.5	2-13	11.5	2-14	11.5	2-15	11.5	2-15	11.5	2-16
14-6	11.5	2-14	11.5	2-15	11.5	2-15	11.5	2-16	11.5	2-16
15-0	12.0	2-14	12.0	2-15	12.0	2-16	12.0	2-16	12.0	2-17
15-6	12.0	2-15	12.0	2-16	12.0	2-16	12.0	2-17	12.0	2-17
16-0	12.5	2-15	12.5	2-16	12.5	2-16	12.5	2-17	12.5	2-18
16-6	13.0	2-16	13.0	2-16	13.0	2-17	13.0	2-18	13.0	2-18
17-0	13.0	2-16	13.0	2-17	13.0	2-17	13.0	2-18	13.5	2-19
17-6	13.5	2-17	13.5	2-17	13.5	2-18	13.5	2-18	14.0	2-19
18-0	13.5	2-17	13.5	2-18	13.5	2-18	14.0	2-19	14.0	2-19
18-6	14.0	2-18	14.0	2-18	14.5	2-19	14.5	2-19	14.5	2-19
19-0	14.0	2-18	14.5	2-19	14.5	2-19	14.5	2-19	14.5	2-20
19-6	14.5	2-18	15.0	2-19	15.0	2-19	15.0	2-19	15.0	2-20
20-0	15.5	2-19	15.5	2-19	15.5	2-19	15.5	2-20	15.5	2-20
21-0	16.0	2-19	16.0	2-19	16.0	2-20	16.0	2-20	16.0	2-21
22-0	16.5	2-19	16.5	2-20	16.5	2-21	16.5	2-21	16.5	2-22
23-0	17.0	2-20	17.0	2-21	17.0	2-22	17.0	2-22	17.0	2-23
24-0	17.5	2-21	17.5	2-22	17.5	2-22	17.5	2-23	17.5	2-24
25-0	18.0	2-22	18.0	2-23	18.0	2-23	18.0	2-24	18.0	2-25
26-0	19.0	2-22	19.0	2-23	19.0	2-24	19.0	2-25	19.0	2-25
27-0	19.5	2-23	19.5	2-24	19.5	2-25	19.5	2-25	19.5	2-26
28-0	20.0	2-24	20.0	2-25	20.0	2-26	20.0	2-26	20.0	2-26
29-0	20.5	2-25	20.5	2-26	20.5	2-26	20.5	2-26	20.5	2-27
30-0	21.0	2-26	21.0	2-26	21.0	2-26	21.0	2-27	21.0	2-28

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

40 Lbs.

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.342		0.369		0.397		0.124		0.141	
C to C Beams	13'-0"		13'-6"		14'-0"		7'-6"		8'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	.	.	.	.	.	.	.	.	.	.
6-6	.	.	.	.	.	.	.	.	.	.
7-0	.	.	.	.	.	.	.	.	.	.
7-6	.	.	.	.	.	.	8.5	2-3	.	.
8-0	.	.	.	.	.	.	8.5	2-3	8.5	2-4
8-6	.	.	.	.	.	.	8.5	2-4	8.5	2-4
9-0	.	.	.	.	.	.	9.5	2-5	9.5	2-6
9-6	.	.	.	.	.	.	9.5	2-6	9.5	2-7
10-0	.	.	.	.	.	.	9.5	2-7	9.5	2-8
10-6	.	.	.	.	.	.	9.5	2-8	9.5	2-9
11-0	.	.	.	.	.	.	9.5	2-9	9.5	2-9
11-6	.	.	.	.	.	.	10.0	2-9	10.0	2-10
12-0	.	.	.	.	.	.	10.0	2-10	10.0	2-11
12-6	.	.	.	.	.	.	10.5	2-10	10.5	2-11
13-0	10.5	2-15	.	.	.	.	10.5	2-11	10.5	2-12
13-6	11.0	2-16	11.0	2-16	.	.	11.0	2-11	11.0	2-12
14-0	11.5	2-16	11.5	2-17	11.5	2-17	11.5	2-12	11.5	2-12
14-6	11.5	2-17	11.5	2-18	11.5	2-18	11.5	2-12	11.5	2-12
15-0	12.0	2-17	12.0	2-18	12.0	2-18	12.0	2-12	12.0	2-12
15-6	12.0	2-18	12.5	2-19	12.5	2-19	12.0	2-12	12.0	2-13
16-0	12.5	2-18	13.0	2-19	13.0	2-19	12.5	2-12	12.5	2-13
16-6	13.5	2-19	13.5	2-19	13.5	2-19	13.0	2-13	13.0	2-13
17-0	13.5	2-19	13.5	2-19	13.5	2-19	13.0	2-13	13.0	2-14
17-6	14.0	2-19	14.0	2-19	14.0	2-20	13.5	2-13	13.5	2-14
18-0	14.0	2-19	14.0	2-20	14.0	2-20	13.5	2-14	13.5	2-15
18-6	14.5	2-20	14.5	2-20	14.5	2-21	14.0	2-14	14.0	2-15
19-0	14.5	2-20	14.5	2-21	14.5	2-22	14.0	2-15	14.0	2-16
19-6	15.0	2-20	15.0	2-21	15.0	2-22	14.5	2-15	14.5	2-16
20-0	15.5	2-21	15.5	2-22	15.5	2-22	15.0	2-15	15.0	2-16
21-0	16.0	2-22	16.0	2-22	16.0	2-23	15.5	2-16	15.5	2-17
22-0	16.5	2-23	16.5	2-23	16.5	2-24	16.0	2-17	16.0	2-17
23-0	17.0	2-24	17.0	2-24	17.0	2-25	16.5	2-17	16.5	2-18
24-0	17.5	2-24	17.5	2-25	17.5	2-26	17.0	2-18	17.5	2-19
25-0	18.0	2-25	18.0	2-26	18.0	2-26	18.0	2-19	18.0	2-19
26-0	19.0	2-26	19.0	2-26	19.0	2-26	19.0	2-19	19.0	2-20
27-0	19.5	2-26	19.5	2-27	19.5	2-27	19.5	2-19	19.5	2-20
28-0	20.0	2-27	20.0	2-28	20.0	2-28	20.0	2-20	20.0	2-21
29-0	20.5	2-28	20.5	2-28	20.5	2-29	20.5	2-21	20.5	2-22
30-0	21.0	2-28	21.0	2-29	21.0	2-30	21.0	2-21	21.0	2-22

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.159		0.179		0.199		0.221		0.243	
C to C Beams	8'-6"		9'-0"		9'-6"		10'-0"		10'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	9.5	2-5	..	..	..	..	..	..	..	..
9-0	9.5	2-6	..	..	..	..	..	..	..	..
9-6	9.5	2-7	..	..	..	..	..	..	..	..
10-0	9.5	2-8	..	..	..	..	..	..	..	..
10-6	9.5	2-9	..	..	..	..	..	..	..	..
11-0	9.5	2-10	..	..	..	..	..	..	..	..
11-6	10.0	2-11	..	..	..	..	..	..	..	..
12-0	10.0	2-11	10.0	2-12	10.0	2-12	10.0	2-12	10.0	2-13
12-6	10.5	2-12	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-13
13-0	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-13	10.5	2-14
13-6	11.0	2-12	11.0	2-12	11.0	2-13	11.0	2-13	11.0	2-14
14-0	11.5	2-12	11.5	2-13	11.5	2-13	11.5	2-14	11.5	2-15
14-6	11.5	2-13	11.5	2-13	11.5	2-14	11.5	2-15	11.5	2-15
15-0	12.0	2-13	12.0	2-14	12.0	2-14	12.0	2-15	12.0	2-16
15-6	12.0	2-13	12.0	2-14	12.0	2-15	12.0	2-16	12.0	2-16
16-0	12.5	2-14	12.5	2-14	12.5	2-15	12.5	2-16	12.5	2-16
16-6	13.0	2-14	13.0	2-15	13.0	2-16	13.0	2-16	13.0	2-17
17-0	13.0	2-15	13.0	2-15	13.0	2-16	13.0	2-17	13.0	2-17
17-6	13.5	2-15	13.5	2-16	13.5	2-16	13.5	2-17	13.5	2-18
18-0	13.5	2-15	13.5	2-16	13.5	2-17	13.5	2-18	13.5	2-18
18-6	14.0	2-16	14.0	2-17	14.0	2-17	14.0	2-18	14.5	2-19
19-0	14.0	2-16	14.0	2-17	14.0	2-18	14.5	2-19	14.5	2-19
19-6	14.5	2-16	14.5	2-17	14.5	2-18	15.0	2-19	15.0	2-19
20-0	15.0	2-17	15.0	2-18	15.0	2-18	15.5	2-19	15.5	2-19
21-0	15.5	2-17	15.5	2-18	16.0	2-19	16.0	2-19	16.0	2-20
22-0	16.0	2-18	16.5	2-19	16.5	2-19	16.5	2-20	16.5	2-21
23-0	17.0	2-19	17.0	2-19	17.0	2-20	17.0	2-21	17.0	2-21
24-0	17.5	2-19	17.5	2-20	17.5	2-21	17.5	2-22	17.5	2-22
25-0	18.0	2-20	18.0	2-21	18.0	2-22	18.0	2-22	18.0	2-23
26-0	19.0	2-20	19.0	2-21	19.0	2-22	19.0	2-23	19.0	2-24
27-0	19.5	2-21	19.5	2-22	19.5	2-23	19.5	2-24	19.5	2-25
28-0	20.0	2-22	20.0	2-23	20.0	2-24	20.0	2-25	20.0	2-25
29-0	20.5	2-23	20.5	2-24	20.5	2-24	20.5	2-25	20.5	2-26
30-0	21.0	2-23	21.0	2-24	21.0	2-25	21.0	2-26	21.0	2-26

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.267		0.292		0.318		0.344		0.373	
C to C Beams	11'-0"		11'-6"		12'-0"		12'-6"		13'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
10-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
10-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
11-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
11-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
12-0	10.0	2-13	10.0	2-14	10.0	2-14	. .	. .	. .	. .
12-6	10.5	2-14	10.5	2-14	10.5	2-15	10.0	2-15	. .	. .
13-0	10.5	2-14	10.5	2-15	10.5	2-15	10.5	2-16	10.5	2-17
13-6	11.0	2-15	11.0	2-15	11.0	2-16	11.0	2-16	11.0	2-17
14-0	11.5	2-15	11.5	2-16	11.5	2-16	11.5	2-17	11.5	2-17
14-6	11.5	2-16	11.5	2-16	11.5	2-17	11.5	2-18	11.5	2-18
15-0	12.0	2-16	12.0	2-17	12.0	2-17	12.0	2-18	12.5	2-19
15-6	12.0	2-17	12.0	2-17	12.0	2-18	12.5	2-19	12.5	2-19
16-0	12.5	2-17	12.5	2-18	12.5	2-18	13.0	2-19	13.0	2-19
16-6	13.0	2-18	13.0	2-18	13.5	2-19	13.5	2-19	13.5	2-19
17-0	13.0	2-18	13.5	2-19	13.5	2-19	13.5	2-19	13.5	2-20
17-6	13.5	2-18	14.0	2-19	14.0	2-19	14.0	2-19	14.0	2-20
18-0	14.0	2-19	14.0	2-19	14.0	2-19	14.0	2-20	14.0	2-21
18-6	14.5	2-19	14.5	2-19	14.5	2-20	14.5	2-21	14.5	2-21
19-0	14.5	2-19	14.5	2-20	14.5	2-20	14.5	2-21	14.5	2-22
19-6	15.0	2-19	15.0	2-20	15.0	2-21	15.0	2-21	15.0	2-22
20-0	15.5	2-20	15.5	2-20	15.5	2-21	15.5	2-22	15.5	2-22
21-0	16.0	2-20	16.0	2-21	16.0	2-22	16.0	2-22	16.0	2-23
22-0	16.5	2-21	16.5	2-22	16.5	2-23	16.5	2-23	16.5	2-24
23-0	17.0	2-22	17.0	2-23	17.0	2-24	17.0	2-24	17.0	2-25
24-0	17.5	2-23	17.5	2-24	17.5	2-25	17.5	2-25	17.5	2-26
25-0	18.0	2-24	18.0	2-25	18.0	2-26	18.0	2-26	18.0	2-26
26-0	19.0	2-25	19.0	2-25	19.0	2-26	19.0	2-26	19.0	2-27
27-0	19.5	2-25	19.5	2-26	19.5	2-26	19.5	2-27	19.5	2-28
28-0	20.0	2-26	20.0	2-26	20.0	2-27	20.0	2-28	20.0	2-28
29-0	20.5	2-26	20.5	2-27	20.5	2-28	20.5	2-29	20.5	2-29
30-0	21.0	2-27	21.0	2-27	21.0	2-29	21.0	2-29	21.0	2-30



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

50 Lbs.

75 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.402		0.150		0.170		0.192		0.215	
C to C Beams	13'-6"		7'-6"		8'-0"		8'-6"		9'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
10-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
10-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
11-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
11-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
12-0	. .	. .	10.0	2-12	10.0	2-12	10.0	2-12	10.0	2-13
12-6	. .	. .	10.5	2-12	10.5	2-12	10.5	2-13	10.5	2-14
13-0	. .	. .	10.5	2-12	10.5	2-13	10.5	2-13	10.5	2-14
13-6	11.0	2-17	11.0	2-12	11.0	2-13	11.0	2-14	11.0	2-14
14-0	11.5	2-18	11.5	2-13	11.5	2-13	11.5	2-14	11.5	2-15
14-6	12.0	2-19	11.5	2-13	11.5	2-14	11.5	2-15	11.5	2-16
15-0	12.5	2-19	12.0	2-14	12.0	2-15	12.0	2-15	12.0	2-16
15-6	12.5	2-19	12.0	2-14	12.0	2-15	12.0	2-16	12.0	2-17
16-0	13.0	2-19	12.5	2-14	12.5	2-15	12.5	2-16	12.5	2-17
16-6	13.5	2-20	13.0	2-15	13.0	2-16	13.0	2-17	13.0	2-17
17-0	13.5	2-20	13.0	2-15	13.0	2-16	13.0	2-17	13.0	2-18
17-6	14.0	2-21	13.5	2-16	13.5	2-17	13.5	2-17	13.5	2-18
18-0	14.0	2-21	13.5	2-16	13.5	2-17	13.5	2-18	14.0	2-19
18-6	14.5	2-22	14.0	2-17	14.0	2-18	14.5	2-19	14.5	2-19
19-0	14.5	2-22	14.0	2-17	14.0	2-18	14.5	2-19	14.5	2-19
19-6	15.0	2-22	14.5	2-17	14.5	2-18	15.0	2-19	15.0	2-19
20-0	15.5	2-23	15.0	2-18	15.5	2-19	15.5	2-19	15.5	2-19
21-0	16.0	2-24	15.5	2-18	16.0	2-19	16.0	2-19	16.0	2-20
22-0	16.5	2-25	16.5	2-19	16.5	2-19	16.5	2-20	16.5	2-21
23-0	17.0	2-26	17.0	2-19	17.0	2-20	17.0	2-21	17.0	2-22
24-0	17.5	2-26	17.5	2-20	17.5	2-21	17.5	2-22	17.5	2-23
25-0	18.0	2-27	18.0	2-21	18.0	2-22	18.0	2-23	18.0	2-24
26-0	19.0	2-27	19.0	2-22	19.0	2-23	19.0	2-24	19.0	2-24
27-0	19.5	2-28	19.5	2-22	19.5	2-23	19.5	2-24	19.5	2-25
28-0	20.0	2-29	20.0	2-23	20.0	2-24	20.0	2-25	20.0	2-26
29-0	20.5	2-30	20.5	2-24	20.5	2-25	20.5	2-26	20.5	2-26
30-0	21.0	2-31	21.0	2-24	21.0	2-25	21.0	2-26	21.0	2-27

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.240	0.266	0.293	0.322	0.351					
C to C Beams	9'-6"		10'-0"		10'-6"		11'-0"		11'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
10-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
10-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
11-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
11-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
12-0	10.0	2-14	10.0	2-14	10.0	2-15	10.0	2-16	10.0	2-16
12-6	10.5	2-14	10.5	2-15	10.5	2-16	10.5	2-16	10.5	2-17
13-0	10.5	2-15	10.5	2-16	10.5	2-16	10.5	2-17	10.5	2-17
13-6	11.0	2-15	11.0	2-16	11.0	2-16	11.0	2-17	11.0	2-18
14-0	11.5	2-16	11.5	2-16	11.5	2-17	11.5	2-18	11.5	2-18
14-6	11.5	2-16	11.5	2-17	11.5	2-18	11.5	2-18	12.0	2-19
15-0	12.0	2-17	12.0	2-17	12.0	2-18	12.5	2-19	12.5	2-19
15-6	12.0	2-17	12.0	2-18	12.5	2-19	12.5	2-19	12.5	2-19
16-0	12.5	2-17	12.5	2-18	13.0	2-19	13.0	2-19	13.0	2-19
16-6	13.0	2-18	13.5	2-19	13.5	2-19	13.5	2-19	13.5	2-20
17-0	13.5	2-19	13.5	2-19	13.5	2-19	13.5	2-20	13.5	2-21
17-6	14.0	2-19	14.0	2-19	14.0	2-19	14.0	2-20	14.0	2-21
18-0	14.0	2-19	14.0	2-19	14.0	2-20	14.0	2-21	14.0	2-22
18-6	14.5	2-19	14.5	2-20	14.5	2-21	14.5	2-22	14.5	2-22
19-0	14.5	2-20	14.5	2-21	14.5	2-21	14.5	2-22	14.5	2-23
19-6	15.0	2-20	15.0	2-21	15.0	2-21	15.0	2-22	15.0	2-23
20-0	15.5	2-20	15.5	2-21	15.5	2-22	15.5	2-23	15.5	2-23
21-0	16.0	2-21	16.0	2-22	16.0	2-23	16.0	2-23	16.0	2-24
22-0	16.5	2-22	16.5	2-23	16.5	2-24	16.5	2-24	16.5	2-25
23-0	17.0	2-23	17.0	2-24	17.0	2-25	17.0	2-25	17.0	2-26
24-0	17.5	2-24	17.5	2-25	17.5	2-26	17.5	2-26	17.5	2-26
25-0	18.0	2-25	18.0	2-26	18.0	2-26	18.0	2-26	18.0	2-27
26-0	19.0	2-25	19.0	2-26	19.0	2-26	19.0	2-27	19.0	2-28
27-0	19.5	2-26	19.5	2-26	19.5	2-27	19.5	2-28	19.5	2-29
28-0	20.0	2-26	20.0	2-27	20.0	2-28	20.0	2-29	20.0	2-30
29-0	20.5	2-27	20.5	2-28	20.5	2-29	20.5	2-30	20.5	2-31
30-0	21.0	2-28	21.0	2-29	21.0	2-30	21.0	2-30	21.0	2-31

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

75 Lbs.

100 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.383		0.415		0.449		0.153		0.175	
C to C Beams	12'-0"		12'-6"		13'-0"		7'-0"		7'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
10-0	. .	. .	. .	. .	. .	. .	9.5	2-10	9.5	2-10
10-6	. .	. .	. .	. .	. .	. .	9.5	2-11	9.5	2-11
11-0	. .	. .	. .	. .	. .	. .	9.5	2-12	9.5	2-12
11-6	. .	. .	. .	. .	. .	. .	10.0	2-12	10.0	2-12
12-0	10.0	2-17	. .	. .	. .	. .	10.0	2-12	10.0	2-13
12-6	10.5	2-17	10.5	2-18	. .	. .	10.5	2-12	10.5	2-13
13-0	10.5	2-18	11.0	2-19	11.0	2-19	10.5	2-13	10.5	2-14
13-6	11.0	2-18	11.5	2-19	11.5	2-19	11.0	2-13	11.0	2-14
14-0	12.0	2-19	12.0	2-19	12.0	2-19	11.5	2-14	11.5	2-15
14-6	12.0	2-19	12.0	2-19	12.0	2-20	11.5	2-14	11.5	2-15
15-0	12.5	2-19	12.5	2-20	12.5	2-21	12.0	2-15	12.0	2-16
15-6	12.5	2-20	12.5	2-20	12.5	2-21	12.0	2-15	12.0	2-16
16-0	13.0	2-20	13.0	2-21	13.0	2-21	12.5	2-16	12.5	2-16
16-6	13.5	2-21	13.5	2-21	13.5	2-22	13.0	2-16	13.0	2-17
17-0	13.5	2-21	13.5	2-22	13.5	2-23	13.0	2-17	13.0	2-17
17-6	14.0	2-22	14.0	2-22	14.0	2-23	13.5	2-17	13.5	2-18
18-0	14.0	2-22	14.0	2-23	14.0	2-24	13.5	2-17	13.5	2-18
18-6	14.5	2-23	14.5	2-24	14.5	2-24	14.0	2-18	14.5	2-19
19-0	14.5	2-24	14.5	2-24	14.5	2-25	14.0	2-18	14.5	2-19
19-6	15.0	2-24	15.0	2-24	15.0	2-25	15.0	2-19	15.0	2-19
20-0	15.5	2-24	15.5	2-25	15.5	2-26	15.5	2-19	15.5	2-19
21-0	16.0	2-25	16.0	2-26	16.0	2-26	16.0	2-19	16.0	2-20
22-0	16.5	2-26	16.5	2-26	16.5	2-27	16.5	2-20	16.5	2-21
23-0	17.0	2-26	17.0	2-27	17.0	2-28	17.0	2-20	17.0	2-22
24-0	17.5	2-27	17.5	2-28	17.5	2-29	17.5	2-21	17.5	2-22
25-0	18.0	2-28	18.0	2-29	18.0	2-30	18.0	2-22	18.0	2-23
26-0	19.0	2-29	19.0	2-30	19.0	2-30	19.0	2-23	19.0	2-24
27-0	19.5	2-30	19.5	2-30	19.5	2-31	19.5	2-24	19.5	2-25
28-0	20.0	2-31	20.0	2-31	20.0	2-32	20.0	2-24	20.0	2-25
29-0	20.5	2-31	20.5	2-32	20.5	2-33	20.5	2-25	20.5	2-26
30-0	21.0	2-32	21.0	2-33	21.0	2-34	21.0	2-26	21.0	2-26

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

100 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.199		0.225		0.252		0.281		0.311	
C to C Beams	8'-0"		8'-6"		9'-0"		9'-6"		10'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	..	..	..	..	..	..	..	..	..	..
9-6	..	..	..	..	..	..	..	..	..	..
10-0	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-12	9.5	2-13
10-6	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-13	9.5	2-14
11-0	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-14	9.5	2-15
11-6	10.0	2-13	10.0	2-14	10.0	2-14	10.0	2-15	10.0	2-16
12-0	10.0	2-13	10.0	2-14	10.0	2-15	10.0	2-16	10.0	2-16
12-6	10.5	2-14	10.5	2-15	10.5	2-16	10.5	2-16	10.5	2-17
13-0	10.5	2-15	10.5	2-15	10.5	2-16	10.5	2-17	10.5	2-18
13-6	11.0	2-15	11.0	2-16	11.0	2-16	11.0	2-17	11.0	2-18
14-0	11.5	2-15	11.5	2-16	11.5	2-17	11.5	2-18	12.0	2-19
14-6	11.5	2-16	11.5	2-17	11.5	2-18	12.0	2-19	12.0	2-19
15-0	12.0	2-17	12.0	2-17	12.0	2-18	12.5	2-19	12.5	2-19
15-6	12.0	2-17	12.0	2-18	12.5	2-19	12.5	2-19	12.5	2-19
16-0	12.5	2-17	12.5	2-18	13.0	2-19	13.0	2-19	13.0	2-20
16-6	13.0	2-18	13.5	2-19	13.5	2-19	13.5	2-19	13.5	2-20
17-0	13.0	2-18	13.5	2-19	13.5	2-19	13.5	2-20	13.5	2-21
17-6	14.0	2-19	14.0	2-19	14.0	2-20	14.0	2-20	14.0	2-21
18-0	14.0	2-19	14.0	2-19	14.0	2-20	14.0	2-21	14.0	2-22
18-6	14.5	2-19	14.5	2-20	14.5	2-21	14.5	2-22	14.5	2-23
19-0	14.5	2-19	14.5	2-20	14.5	2-21	14.5	2-22	14.5	2-23
19-6	15.0	2-20	15.0	2-21	15.0	2-21	15.0	2-22	15.0	2-23
20-0	15.5	2-20	15.5	2-21	15.5	2-22	15.5	2-23	15.5	2-24
21-0	16.0	2-21	16.0	2-22	16.0	2-23	16.0	2-24	16.0	2-25
22-0	16.5	2-22	16.5	2-23	16.5	2-24	16.5	2-25	16.5	2-26
23-0	17.0	2-23	17.0	2-24	17.0	2-25	17.0	2-26	17.0	2-26
24-0	17.5	2-23	17.5	2-25	17.5	2-26	17.5	2-26	17.5	2-27
25-0	18.0	2-24	18.0	2-26	18.0	2-26	18.0	2-27	18.0	2-27
26-0	19.0	2-25	19.0	2-26	19.0	2-26	19.0	2-27	19.0	2-28
27-0	19.5	2-26	19.5	2-26	19.5	2-27	19.5	2-28	19.5	2-29
28-0	20.0	2-26	20.0	2-27	20.0	2-28	20.0	2-29	20.0	2-30
29-0	20.5	2-27	20.5	2-28	20.5	2-29	20.5	2-30	20.5	2-31
30-0	21.0	2-27	21.0	2-28	21.0	2-30	21.0	2-31	21.0	2-32

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

100 Lbs.

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.343		0.376		0.411		0.448		0.128	
C to C Beams	10'-6"		11'-0"		11'-6"		12'-0"		6'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	..	..	..	..	..	..	..	..	..	..
9-6	..	..	..	..	..	..	..	..	9.5	2-8
10-0	..	..	..	..	..	..	..	..	9.5	2-9
10-6	9.5	2-15	..	..	..	..	..	..	9.5	2-10
11-0	9.5	2-16	9.5	2-16	..	..	..	..	9.5	2-11
11-6	10.0	2-16	10.0	2-17	10.0	2-17	..	..	10.0	2-12
12-0	10.0	2-17	10.0	2-18	10.0	2-18	10.5	2-19	10.0	2-12
12-6	10.5	2-18	11.0	2-19	11.0	2-19	11.0	2-19	10.5	2-12
13-0	11.0	2-19	11.0	2-19	11.0	2-19	11.0	2-20	10.5	2-13
13-6	11.5	2-19	11.5	2-19	11.5	2-19	11.5	2-20	11.0	2-13
14-0	12.0	2-19	12.0	2-19	12.0	2-20	12.0	2-20	11.5	2-14
14-6	12.0	2-19	12.0	2-20	12.0	2-21	12.0	2-21	11.5	2-14
15-0	12.5	2-20	12.5	2-20	12.5	2-21	12.5	2-22	12.0	2-15
15-6	12.5	2-20	12.5	2-21	12.5	2-22	12.5	2-22	12.0	2-15
16-0	13.0	2-20	13.0	2-21	13.0	2-22	13.0	2-23	12.5	2-15
16-6	13.5	2-21	13.5	2-22	13.5	2-23	13.5	2-23	13.0	2-16
17-0	13.5	2-22	13.5	2-22	13.5	2-23	13.5	2-24	13.0	2-16
17-6	14.0	2-22	14.0	2-23	14.0	2-24	14.0	2-24	13.5	2-17
18-0	14.0	2-23	14.0	2-24	14.0	2-24	14.0	2-25	13.5	2-17
18-6	14.5	2-23	14.5	2-24	14.5	2-25	14.5	2-26	14.0	2-18
19-0	14.5	2-24	14.5	2-25	14.5	2-26	14.5	2-26	14.0	2-18
19-6	15.0	2-24	15.0	2-25	15.0	2-26	15.0	2-26	14.5	2-18
20-0	15.5	2-25	15.5	2-25	15.5	2-26	15.5	2-26	15.5	2-19
21-0	16.0	2-25	16.0	2-26	16.0	2-26	16.0	2-27	16.0	2-19
22-0	16.5	2-26	16.5	2-26	16.5	2-27	16.5	2-28	16.5	2-19
23-0	17.0	2-27	17.0	2-27	17.0	2-28	17.0	2-29	17.0	2-20
24-0	17.5	2-28	17.5	2-28	17.5	2-29	17.5	2-30	17.5	2-21
25-0	18.0	2-29	18.0	2-29	18.0	2-30	18.0	2-31	18.0	2-22
26-0	19.0	2-29	19.0	2-30	19.0	2-31	19.0	2-32	19.0	2-22
27-0	19.5	2-30	19.5	2-31	19.5	2-32	19.5	2-33	19.5	2-23
28-0	20.0	2-31	20.0	2-32	20.0	2-33	20.0	2-34	20.0	2-24
29-0	20.5	2-32	20.5	2-33	20.5	2-34	20.5	2-36	20.5	2-25
30-0	21.0	2-33	21.0	2-34	21.0	2-36	21.0	2-37	21.0	2-26

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.151		0.175		0.200		0.228		0.257	
C to C Beams	6'-6"		7'-0"		7'-6"		8'-0"		8'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	..	..	..	..	..	..	..	..	..	..
8-6	..	..	..	..	..	..	..	..	..	..
9-0	..	..	..	..	..	..	..	..	..	..
9-6	9.5	2-9	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-12
10-0	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-12
10-6	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-13
11-0	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-15
11-6	10.0	2-12	10.0	2-13	10.0	2-14	10.0	2-15	10.0	2-15
12-0	10.0	2-13	10.0	2-13	10.0	2-14	10.0	2-15	10.0	2-16
12-6	10.5	2-13	10.5	2-14	10.5	2-15	10.5	2-16	10.5	2-17
13-0	10.5	2-14	10.5	2-15	10.5	2-16	10.5	2-17	10.5	2-17
13-6	11.0	2-14	11.0	2-15	11.0	2-16	11.0	2-17	11.0	2-18
14-0	11.5	2-15	11.5	2-15	11.5	2-16	11.5	2-17	11.5	2-18
14-6	11.5	2-15	11.5	2-16	11.5	2-17	11.5	2-18	12.0	2-19
15-0	12.0	2-16	12.0	2-17	12.0	2-18	12.5	2-19	12.5	2-19
15-6	12.0	2-16	12.0	2-17	12.0	2-18	12.5	2-19	12.5	2-19
16-0	12.5	2-16	12.5	2-17	12.5	2-18	13.0	2-19	13.0	2-19
16-6	13.0	2-17	13.0	2-18	13.5	2-19	13.5	2-19	13.5	2-20
17-0	13.0	2-17	13.0	2-18	13.5	2-19	13.5	2-19	13.5	2-20
17-6	13.5	2-18	14.0	2-19	14.0	2-19	14.0	2-20	14.0	2-21
18-0	13.5	2-18	14.0	2-19	14.0	2-20	14.0	2-21	14.0	2-22
18-6	14.5	2-19	14.5	2-19	14.5	2-20	14.5	2-21	14.5	2-22
19-0	14.5	2-19	14.5	2-19	14.5	2-21	14.5	2-22	14.5	2-23
19-6	15.0	2-19	15.0	2-20	15.0	2-21	15.0	2-22	15.0	2-23
20-0	15.5	2-19	15.5	2-20	15.5	2-21	15.5	2-22	15.5	2-23
21-0	16.0	2-20	16.0	2-21	16.0	2-22	16.0	2-23	16.0	2-24
22-0	16.5	2-21	16.5	2-22	16.5	2-23	16.5	2-24	16.5	2-25
23-0	17.0	2-21	17.0	2-23	17.0	2-24	17.0	2-25	17.0	2-26
24-0	17.5	2-22	17.5	2-24	17.5	2-25	17.5	2-26	17.5	2-26
25-0	18.0	2-23	18.0	2-24	18.0	2-26	18.0	2-26	18.0	2-27
26-0	19.0	2-24	19.0	2-25	19.0	2-26	19.0	2-27	19.0	2-28
27-0	19.5	2-25	19.5	2-26	19.5	2-26	19.5	2-27	19.5	2-29
28-0	20.0	2-25	20.0	2-26	20.0	2-27	20.0	2-28	20.0	2-30
29-0	20.5	2-26	20.5	2-27	20.5	2-28	20.5	2-29	20.5	2-30
30-0	21.0	2-26	21.0	2-27	21.0	2-29	21.0	2-30	21.0	2-31

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

125 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.288		0.321		0.356		0.398		0.431	
C to C Beams	9'-0"		9'-6"		10'-0"		10'-6"		11'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
9-6	9.5	2-12	9.5	2-12	. .	. .	. .	. .	. .	. .
10-0	9.5	2-13	9.5	2-14	9.5	2-14	. .	. .	. .	. .
10-6	9.5	2-14	9.5	2-15	9.5	2-16	9.5	2-16	. .	. .
11-0	9.5	2-16	9.5	2-16	9.5	2-17	9.5	2-18	9.5	2-18
11-6	10.0	2-16	10.0	2-17	10.0	2-18	10.0	2-18	10.5	2-19
12-0	10.0	2-17	10.0	2-18	10.0	2-18	10.5	2-19	10.5	2-19
12-6	10.5	2-18	10.5	2-18	11.0	2-19	11.0	2-19	11.0	2-20
13-0	10.5	2-18	11.0	2-19	11.0	2-19	11.0	2-20	11.5	2-20
13-6	11.0	2-18	11.5	2-19	11.5	2-19	11.5	2-20	11.5	2-21
14-0	12.0	2-19	12.0	2-19	12.0	2-20	12.0	2-21	12.0	2-22
14-6	12.0	2-19	12.0	2-20	12.0	2-21	12.0	2-21	12.0	2-22
15-0	12.5	2-19	12.5	2-20	12.5	2-21	12.5	2-22	12.5	2-23
15-6	12.5	2-20	12.5	2-21	12.5	2-22	12.5	2-23	13.0	2-24
16-0	13.0	2-20	13.0	2-21	13.0	2-22	13.0	2-23	13.0	2-24
16-6	13.5	2-21	13.5	2-22	13.5	2-23	13.5	2-23	13.5	2-25
17-0	13.5	2-21	13.5	2-22	13.5	2-23	13.5	2-24	13.5	2-25
17-6	14.0	2-22	14.0	2-23	14.0	2-24	14.0	2-24	14.0	2-25
18-0	14.0	2-22	14.0	2-23	14.0	2-24	14.0	2-25	14.5	2-26
18-6	14.5	2-23	14.5	2-24	14.5	2-25	14.5	2-26	14.5	2-26
19-0	14.5	2-24	14.5	2-25	14.5	2-26	14.5	2-26	15.0	2-26
19-6	15.0	2-24	15.0	2-25	15.0	2-26	15.0	2-26	15.0	2-27
20-0	15.5	2-24	15.5	2-25	15.5	2-26	15.5	2-26	15.5	2-27
21-0	16.0	2-25	16.0	2-26	16.0	2-26	16.0	2-27	16.0	2-28
22-0	16.5	2-26	16.5	2-26	16.5	2-27	16.5	2-28	16.5	2-29
23-0	17.0	2-26	17.0	2-27	17.0	2-28	17.0	2-29	17.5	2-31
24-0	17.5	2-27	17.5	2-28	17.5	2-29	17.5	2-30	18.0	2-32
25-0	18.0	2-28	18.0	2-29	18.0	2-30	18.0	2-31	18.5	2-33
26-0	19.0	2-29	19.0	2-30	19.0	2-31	19.0	2-32	19.0	2-33
27-0	19.5	2-30	19.5	2-31	19.5	2-32	19.5	2-33	20.0	3-26
28-0	20.0	2-31	20.0	2-32	20.0	2-33	20.0	2-34	20.5	3-26
29-0	20.5	2-32	20.5	2-33	20.5	2-34	20.5	2-36	21.0	3-27
30-0	21.0	2-32	21.0	2-34	21.0	3-26	21.0	3-27	21.5	3-27

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

125 Lbs.

150 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.471		0.123		0.145		0.170		0.197	
C to C Beams	11'-6"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
7-6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
8-0	. .	. .	9.5	2-6	9.5	2-6	9.5	2-7	9.5	2-8
8-6	. .	. .	9.5	2-7	9.5	2-7	9.5	2-8	9.5	2-9
9-0	. .	. .	9.5	2-8	9.5	2-8	9.5	2-9	9.5	2-10
9-6	. .	. .	9.5	2-9	9.5	2-10	9.5	2-10	9.5	2-11
10-0	. .	. .	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-12
10-6	. .	. .	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-13
11-0	. .	. .	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-14
11-6	10.5	2-19	10.0	2-12	10.0	2-12	10.0	2-13	10.0	2-14
12-0	11.0	2-19	10.0	2-12	10.0	2-13	10.0	2-14	10.0	2-15
12-6	11.0	2-20	10.5	2-13	10.5	2-14	10.5	2-15	10.5	2-16
13-0	11.5	2-21	10.5	2-13	10.5	2-14	10.5	2-15	10.5	2-16
13-6	12.0	2-22	11.0	2-13	11.0	2-14	11.0	2-15	11.0	2-17
14-0	12.0	2-22	11.5	2-14	11.5	2-15	11.5	2-16	11.5	2-17
14-6	12.5	2-23	11.5	2-15	11.5	2-16	11.5	2-17	11.5	2-18
15-0	12.5	2-23	12.0	2-15	12.0	2-16	12.0	2-17	12.0	2-18
15-6	13.0	2-24	12.0	2-16	12.0	2-17	12.0	2-18	12.5	2-19
16-0	13.5	2-25	12.5	2-16	12.5	2-17	12.5	2-18	13.0	2-19
16-6	13.5	2-25	13.0	2-16	13.0	2-17	13.5	2-19	13.5	2-19
17-0	13.5	2-25	13.0	2-17	13.0	2-18	13.5	2-19	13.5	2-19
17-6	14.0	2-26	13.5	2-17	13.5	2-18	14.0	2-19	14.0	2-20
18-0	14.5	2-26	13.5	2-18	14.0	2-19	14.0	2-19	14.0	2-20
18-6	15.0	2-26	14.0	2-18	14.5	2-19	14.5	2-20	14.5	2-21
19-0	15.0	2-27	14.5	2-19	14.5	2-19	14.5	2-20	14.5	2-21
19-6	15.5	2-27	15.0	2-19	15.0	2-19	15.0	2-20	15.0	2-22
20-0	16.0	2-28	15.5	2-19	15.5	2-19	15.5	2-21	15.5	2-22
21-0	16.5	2-29	16.0	2-19	16.0	2-20	16.0	2-21	16.0	2-23
22-0	17.0	2-30	16.5	2-20	16.5	2-21	16.5	2-22	16.5	2-24
23-0	17.5	2-31	17.0	2-21	17.0	2-22	17.0	2-23	17.0	2-25
24-0	18.0	2-32	17.5	2-22	17.5	2-23	17.5	2-24	17.5	2-26
25-0	19.0	2-33	18.0	2-22	18.0	2-24	18.0	2-25	18.0	2-26
26-0	19.5	2-34	19.0	2-23	19.0	2-24	19.0	2-26	19.0	2-26
27-0	20.0	2-36	19.5	2-24	19.5	2-25	19.5	2-26	19.5	2-27
28-0	21.0	2-37	20.0	2-25	20.0	2-26	20.0	2-27	20.0	2-28
29-0	21.5	2-37	20.5	2-25	20.5	2-26	20.5	2-27	20.5	2-29
30-0	22.0	2-38	21.0	2-26	21.0	2-27	21.0	2-28	21.0	2-30



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

150 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.226		0.257		0.290		0.325		0.362	
C to C Beams	7'-6"		8'-0"		8'-6"		9'-0"		9'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	..	..	..	..	..	..
6-6	..	..	..	..	..	..	..	..	..	..
7-0	..	..	..	..	..	..	..	..	..	..
7-6	..	..	..	..	..	..	..	..	..	..
8-0	9.5	2-8	9.5	2-9	..	..	..	..	..	..
8-6	9.5	2-10	9.5	2-10	9.5	2-11	..	..	..	..
9-0	9.5	2-11	9.5	2-11	9.5	2-12	9.5	2-12	..	..
9-6	9.5	2-12	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-14
10-0	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-15	9.5	2-15
10-6	9.5	2-13	9.5	2-14	9.5	2-15	9.5	2-16	9.5	2-17
11-0	9.5	2-15	9.5	2-15	9.5	2-16	9.5	2-17	9.5	2-18
11-6	10.0	2-15	10.0	2-16	10.0	2-17	10.0	2-18	10.5	2-19
12-0	10.0	2-16	10.0	2-17	10.0	2-18	10.5	2-19	10.5	2-19
12-6	10.5	2-17	10.5	2-18	11.0	2-19	11.0	2-19	11.0	2-19
13-0	10.5	2-17	10.5	2-18	11.0	2-19	11.0	2-19	11.5	2-20
13-6	11.0	2-17	11.0	2-18	11.5	2-19	11.5	2-19	11.5	2-21
14-0	11.5	2-18	12.0	2-19	12.0	2-19	12.0	2-20	12.0	2-22
14-6	12.0	2-19	12.0	2-19	12.0	2-20	12.0	2-21	12.0	2-23
15-0	12.5	2-19	12.5	2-19	12.5	2-20	12.5	2-21	12.5	2-23
15-6	12.5	2-19	12.5	2-20	12.5	2-21	12.5	2-22	12.5	2-23
16-0	13.0	2-19	13.0	2-20	13.0	2-21	13.0	2-22	13.0	2-24
16-6	13.5	2-20	13.5	2-21	13.5	2-22	13.5	2-23	13.5	2-25
17-0	13.5	2-20	13.5	2-21	13.5	2-22	13.5	2-23	13.5	2-25
17-6	14.0	2-21	14.0	2-22	14.0	2-23	14.0	2-24	14.0	2-25
18-0	14.0	2-21	14.0	2-22	14.0	2-24	14.0	2-25	14.0	2-26
18-6	14.5	2-22	14.5	2-23	14.5	2-24	14.5	2-25	14.5	2-26
19-0	14.5	2-23	14.5	2-24	14.5	2-25	14.5	2-26	14.5	2-26
19-6	15.0	2-23	15.0	2-24	15.0	2-25	15.0	2-26	15.0	2-27
20-0	15.5	2-23	15.5	2-24	15.5	2-25	15.5	2-26	15.5	2-27
21-0	16.0	2-24	16.0	2-25	16.0	2-26	16.0	2-26	16.0	2-28
22-0	16.5	2-25	16.5	2-26	16.5	2-26	16.5	2-27	16.5	2-29
23-0	17.0	2-26	17.0	2-26	17.0	2-27	17.0	2-29	17.0	2-30
24-0	17.5	2-26	17.5	2-27	17.5	2-28	17.5	2-30	17.5	2-31
25-0	18.0	2-27	18.0	2-28	18.0	2-29	18.0	2-31	18.5	2-33
26-0	19.0	2-28	19.0	2-29	19.0	2-30	19.0	2-31	19.0	2-33
27-0	19.5	2-28	19.5	2-30	19.5	2-31	19.5	2-32	19.5	2-34
28-0	20.0	2-29	20.0	2-31	20.0	2-32	20.0	2-33	20.0	2-36
29-0	20.5	2-30	20.5	2-32	20.5	2-33	20.5	2-34	21.0	2-37
30-0	21.0	2-31	21.0	2-32	21.0	2-34	21.0	2-36	21.5	2-37

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

150 Lbs.

200 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.401		0.442		0.123		0.149		0.177	
C to C Beams	10'-0"		10'-6"		5'-0"		5'-6"		6'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	..	..	..	..	8.5	2-2	8.5	2-3	8.5	2-3
6-6	..	..	..	..	8.5	2-3	8.5	2-4	8.5	2-4
7-0	..	..	..	..	8.5	2-4	9.5	2-5	9.5	2-6
7-6	..	..	..	..	9.5	2-5	9.5	2-6	9.5	2-7
8-0	..	..	..	..	9.5	2-6	9.5	2-7	9.5	2-8
8-6	..	..	..	..	9.5	2-8	9.5	2-9	9.5	2-9
9-0	..	..	..	..	9.5	2-9	9.5	2-10	9.5	2-11
9-6	..	..	..	..	9.5	2-10	9.5	2-11	9.5	2-12
10-0	9.5	2-16	..	..	9.5	2-11	9.5	2-12	9.5	2-12
10-6	9.5	2-17	10.0	2-18	9.5	2-12	9.5	2-12	9.5	2-13
11-0	10.0	2-19	10.5	2-19	9.5	2-12	9.5	2-13	9.5	2-14
11-6	10.5	2-19	10.5	2-19	10.0	2-13	10.0	2-14	10.0	2-15
12-0	10.5	2-19	11.0	2-20	10.0	2-13	10.0	2-15	10.0	2-16
12-6	11.0	2-20	11.5	2-20	10.5	2-14	10.5	2-15	10.5	2-16
13-0	11.5	2-20	11.5	2-21	10.5	2-15	10.5	2-16	10.5	2-17
13-6	11.5	2-21	11.5	2-22	11.0	2-15	11.0	2-16	11.0	2-17
14-0	12.0	2-22	12.0	2-22	11.5	2-15	11.5	2-17	11.5	2-18
14-6	12.0	2-22	12.5	2-23	11.5	2-16	11.5	2-17	12.0	2-19
15-0	12.5	2-23	13.0	2-24	12.0	2-16	12.0	2-18	12.5	2-19
15-6	13.0	2-24	13.0	2-24	12.0	2-17	12.0	2-18	12.5	2-19
16-0	13.0	2-24	13.5	2-25	12.5	2-17	13.0	2-19	13.0	2-19
16-6	13.5	2-25	14.0	2-25	13.0	2-18	13.5	2-19	13.5	2-19
17-0	13.5	2-25	14.0	2-26	13.0	2-18	13.5	2-19	13.5	2-20
17-6	14.0	2-25	14.5	2-26	14.0	2-19	14.0	2-19	14.0	2-20
18-0	14.5	2-26	14.5	2-26	14.0	2-19	14.0	2-20	14.0	2-21
18-6	14.5	2-26	15.0	2-26	14.5	2-19	14.5	2-20	14.5	2-22
19-0	15.0	2-26	15.5	2-27	14.5	2-19	14.5	2-21	14.5	2-22
19-6	15.0	2-27	15.5	2-28	15.0	2-19	15.0	2-21	15.0	2-22
20-0	15.5	2-27	16.0	2-28	15.5	2-20	15.5	2-21	15.5	2-23
21-0	16.0	2-28	16.5	2-29	16.0	2-21	16.0	2-22	16.0	2-24
22-0	16.5	2-29	17.0	2-30	16.5	2-21	16.5	2-23	16.5	2-25
23-0	17.5	2-31	18.0	2-32	17.0	2-22	17.0	2-24	17.0	2-26
24-0	18.0	2-32	18.0	2-32	17.5	2-23	17.5	2-25	17.5	2-26
25-0	18.5	2-33	19.0	2-33	18.0	2-24	18.0	2-26	18.0	2-27
26-0	19.0	2-33	19.5	2-34	19.0	2-25	19.0	2-26	19.0	2-27
27-0	20.0	3-26	20.5	3-26	19.5	2-26	19.5	2-26	19.5	2-28
28-0	20.5	3-26	21.0	3-27	20.0	2-26	20.0	2-27	20.0	2-29
29-0	21.0	3-27	21.5	3-27	20.5	2-26	20.5	2-28	20.5	2-30
30-0	21.5	3-27	22.5	3-28	21.0	2-27	21.0	2-29	21.0	2-31

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

200 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.208		0.241		0.277		0.315		0.355	
C to C Beams	6'-6"		7'-0"		7'-6"		8'-0"		8'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	9.5	2-5	. .	. .	. .	. .	. .	. .	. .	. .
7-0	9.5	2-6	9.5	2-7	. .	. .	. .	. .	. .	. .
7-6	9.5	2-8	9.5	2-8	9.5	2-9	. .	. .	. .	. .
8-0	9.5	2-9	9.5	2-10	9.5	2-10	9.5	2-11	. .	. .
8-6	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-12
9-0	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-14
9-6	9.5	2-12	9.5	2-13	9.5	2-13	9.5	2-14	9.5	2-15
10-0	9.5	2-13	9.5	2-14	9.5	2-15	9.5	2-16	9.5	2-17
10-6	9.5	2-14	9.5	2-15	9.5	2-16	9.5	2-17	10.0	2-19
11-0	9.5	2-15	9.5	2-16	9.5	2-17	9.5	2-18	10.5	2-19
11-6	10.0	2-16	10.0	2-17	10.0	2-18	10.5	2-19	10.5	2-19
12-0	10.0	2-17	10.0	2-18	10.5	2-19	10.5	2-19	11.0	2-19
12-6	10.5	2-18	11.0	2-19	11.0	2-19	11.0	2-20	11.5	2-20
13-0	10.5	2-18	11.0	2-19	11.0	2-19	11.5	2-20	11.5	2-21
13-6	11.0	2-18	11.5	2-19	11.5	2-20	11.5	2-21	12.0	2-22
14-0	12.0	2-19	12.0	2-19	12.0	2-20	12.0	2-22	12.0	2-22
14-6	12.0	2-19	12.0	2-20	12.0	2-21	12.0	2-22	12.5	2-23
15-0	12.5	2-19	12.5	2-20	12.5	2-22	12.5	2-23	13.0	2-24
15-6	12.5	2-20	12.5	2-21	12.5	2-22	13.0	2-24	13.0	2-24
16-0	13.0	2-20	13.0	2-21	13.0	2-22	13.0	2-24	13.5	2-25
16-6	13.5	2-21	13.5	2-22	13.5	2-23	13.5	2-25	13.5	2-25
17-0	13.5	2-21	13.5	2-23	13.5	2-24	13.5	2-25	14.0	2-26
17-6	14.0	2-22	14.0	2-23	14.0	2-24	14.0	2-26	14.5	2-26
18-0	14.0	2-22	14.0	2-24	14.0	2-25	14.5	2-26	14.5	2-26
18-6	14.5	2-23	14.5	2-24	14.5	2-26	14.5	2-26	15.0	2-26
19-0	14.5	2-24	14.5	2-25	14.5	2-26	15.0	2-26	15.5	2-27
19-6	15.0	2-24	15.0	2-25	15.0	2-26	15.0	2-27	15.5	2-28
20-0	15.5	2-24	15.5	2-25	15.5	2-26	15.5	2-28	16.0	2-28
21-0	16.0	2-25	16.0	2-26	16.0	2-27	16.0	2-28	16.5	2-29
22-0	16.5	2-26	16.5	2-27	16.5	2-28	16.5	2-29	17.0	2-30
23-0	17.0	2-26	17.0	2-28	17.0	2-29	17.5	2-31	17.5	2-31
24-0	17.5	2-27	17.5	2-29	17.5	2-30	18.0	2-32	18.0	2-32
25-0	18.0	2-28	18.0	2-30	18.0	2-31	18.5	2-33	19.0	2-33
26-0	19.0	2-29	19.0	2-30	19.0	2-32	19.0	2-33	19.5	2-34
27-0	19.5	2-30	19.5	2-31	19.5	2-33	20.0	2-34	20.5	2-35
28-0	20.0	2-31	20.0	2-32	20.0	2-34	20.5	2-35	21.0	2-37
29-0	20.5	2-32	20.5	2-33	20.5	2-35	21.0	2-37	21.5	2-37
30-0	21.0	2-32	21.0	2-34	21.0	2-37	22.0	2-38	22.5	2-38

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

200 Lbs.

250 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.398		0.444		0.146		0.176		0.210	
C to C Beams	9'-0"		9'-6"		5'-0"		5'-6"		6'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	8.5	2-4	8.5	2-4	8.5	2-4
6-6	. .	. .	. .	. .	8.5	2-4	9.5	2-5	9.5	2-6
7-0	. .	. .	. .	. .	9.5	2-6	9.5	2-6	9.5	2-7
7-6	. .	. .	. .	. .	9.5	2-7	9.5	2-8	9.5	2-9
8-0	. .	. .	. .	. .	9.5	2-8	9.5	2-9	9.5	2-10
8-6	. .	. .	. .	. .	9.5	2-9	9.5	2-10	9.5	2-11
9-0	9.5	2-14	. .	. .	9.5	2-11	9.5	2-11	9.5	2-12
9-6	9.5	2-16	9.5	2-17	9.5	2-12	9.5	2-12	9.5	2-13
10-0	9.5	2-17	9.5	2-18	9.5	2-12	9.5	2-13	9.5	2-14
10-6	10.0	2-19	10.5	2-19	9.5	2-13	9.5	2-14	9.5	2-15
11-0	10.5	2-19	10.5	2-19	9.5	2-14	9.5	2-15	9.5	2-16
11-6	11.0	2-19	11.0	2-20	10.0	2-15	10.0	2-16	10.0	2-17
12-0	11.0	2-20	11.5	2-20	10.0	2-15	10.0	2-17	10.0	2-18
12-6	11.5	2-20	11.5	2-21	10.5	2-16	10.5	2-18	11.0	2-19
13-0	12.0	2-22	12.0	2-21	10.5	2-17	10.5	2-18	11.0	2-19
13-6	12.0	2-22	12.0	2-23	11.0	2-17	11.0	2-18	11.5	2-19
14-0	12.5	2-23	12.5	2-23	11.5	2-18	12.0	2-19	12.0	2-19
14-6	12.5	2-23	13.0	2-24	11.5	2-18	12.0	2-19	12.0	2-20
15-0	13.0	2-24	13.5	2-25	12.5	2-19	12.5	2-19	12.5	2-21
15-6	13.5	2-25	13.5	2-25	12.5	2-19	12.5	2-20	12.5	2-21
16-0	13.5	2-25	14.0	2-25	18.0	2-19	13.0	2-20	13.0	2-22
16-6	14.0	2-26	14.5	2-26	13.5	2-19	13.5	2-21	13.5	2-22
17-0	14.5	2-26	14.5	2-26	13.5	2-20	13.5	2-21	13.5	2-23
17-6	14.5	2-26	15.0	2-26	14.0	2-20	14.0	2-22	14.0	2-23
18-0	15.0	2-26	15.5	2-27	14.0	2-21	14.0	2-22	14.0	2-24
18-6	15.5	2-27	15.5	2-28	14.5	2-21	14.5	2-23	14.5	2-25
19-0	15.5	2-28	16.0	2-28	14.5	2-22	14.5	2-24	14.5	2-25
19-6	16.0	2-28	16.0	2-28	15.0	2-22	15.0	2-24	15.0	2-25
20-0	16.0	2-28	16.5	2-29	15.5	2-23	15.5	2-24	15.5	2-26
21-0	17.0	2-30	17.0	2-30	16.0	2-23	16.0	2-25	16.0	2-26
22-0	17.5	2-31	18.0	2-32	16.5	2-24	16.5	2-26	16.5	2-27
23-0	18.0	2-32	18.5	2-33	17.0	2-25	17.0	2-26	17.0	2-28
24-0	19.0	2-33	19.0	2-33	17.5	2-26	17.5	2-27	17.5	2-29
25-0	19.5	2-34	20.0	2-36	18.0	2-26	18.0	2-28	18.0	2-30
26-0	20.0	2-36	20.5	2-36	19.0	2-27	19.0	2-29	19.0	2-31
27-0	21.0	2-37	21.5	2-37	19.5	2-28	19.5	2-30	19.5	2-32
28-0	21.5	2-37	22.0	2-38	20.0	2-29	20.0	2-31	20.0	2-33
29-0	22.0	2-38	23.0	2-39	20.5	2-30	20.5	2-32	20.5	2-33
30-0	23.0	2-39	23.5	2-39	21.0	2-30	21.0	2-32	21.0	2-34

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

250 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.246		0.285		0.328		0.373		0.421	
C to C Beams	6'-6"		7'-0"		7'-6"		8'-0"		8'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
6-6	9.5	2-7	. .	. .	. .	. .	. .	. .	. .	. .
7-0	9.5	2-8	9.5	2-9	. .	. .	. .	. .	. .	. .
7-6	9.5	2-9	9.5	2-10	9.5	2-11	. .	. .	. .	. .
8-0	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-12	. .	. .
8-6	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-14
9-0	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-15	9.5	2-16
9-6	9.5	2-14	9.5	2-15	9.5	2-16	9.5	2-17	9.5	2-17
10-0	9.5	2-15	9.5	2-16	9.5	2-17	9.5	2-18	10.5	2-19
10-6	9.5	2-16	9.5	2-18	10.0	2-19	10.5	2-19	10.5	2-19
11-0	9.5	2-17	10.5	2-19	10.5	2-19	10.5	2-19	11.0	2-19
11-6	10.0	2-18	10.5	2-19	11.0	2-19	11.0	2-20	11.5	2-20
12-0	10.5	2-19	11.0	2-19	11.0	2-20	11.5	2-20	11.5	2-21
12-6	11.0	2-19	11.0	2-20	11.5	2-20	11.5	2-21	12.0	2-22
13-0	11.0	2-19	11.5	2-20	11.5	2-21	12.0	2-22	12.5	2-23
13-6	11.5	2-20	12.0	2-22	12.0	2-23	12.5	2-23	12.5	2-23
14-0	12.0	2-21	12.0	2-22	12.5	2-23	12.5	2-23	13.0	2-24
14-6	12.0	2-22	12.5	2-23	13.0	2-24	13.0	2-24	13.0	2-24
15-0	12.5	2-23	12.5	2-23	13.5	2-25	13.5	2-25	13.5	2-25
15-6	12.5	2-23	13.0	2-24	13.5	2-25	13.5	2-25	14.0	2-25
16-0	13.0	2-23	13.5	2-25	13.5	2-25	14.0	2-25	14.5	2-26
16-6	13.5	2-24	13.5	2-25	14.0	2-25	14.5	2-26	14.5	2-26
17-0	13.5	2-24	14.0	2-25	14.0	2-26	14.5	2-26	15.0	2-26
17-6	14.0	2-25	14.0	2-26	14.5	2-26	15.0	2-26	15.5	2-27
18-0	14.0	2-25	14.5	2-26	15.0	2-26	15.0	2-27	15.5	2-28
18-6	14.5	2-26	15.0	2-26	15.0	2-27	15.5	2-28	16.0	2-28
19-0	14.5	2-26	15.0	2-27	15.5	2-27	16.0	2-28	16.5	2-29
19-6	15.0	2-26	15.5	2-27	16.0	2-28	16.0	2-28	16.5	2-29
20-0	15.5	2-26	15.5	2-28	16.0	2-28	16.5	2-29	17.0	2-30
21-0	16.0	2-27	16.5	2-29	17.0	2-30	17.0	2-30	17.5	2-31
22-0	16.5	2-28	17.0	2-30	17.5	2-31	18.0	2-31	18.5	2-33
23-0	17.0	2-29	17.5	2-31	18.0	2-32	18.5	2-33	19.0	2-33
24-0	17.5	2-30	18.0	2-32	18.5	2-33	19.0	2-33	19.5	2-34
25-0	18.0	2-31	19.0	2-33	19.5	2-34	20.0	2-36	20.5	2-36
26-0	19.0	2-32	19.5	2-34	20.0	2-36	20.5	2-36	21.0	2-37
27-0	19.5	2-33	20.0	2-36	20.5	2-36	21.5	2-37	22.0	2-38
28-0	20.0	2-34	20.5	2-36	21.5	2-37	22.0	2-38	22.5	2-38
29-0	20.5	2-36	21.5	2-37	22.0	2-38	23.0	2-39	23.5	2-39
30-0	21.0	2-37	22.0	2-38	23.0	2-39	23.5	2-39	24.5	2-39

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

250 Lbs.

300 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.472		0.136		0.168		0.204		0.242	
C to C Beams	9'-0"		4'-6"		5'-0"		5'-6"		6'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	8.5	2-3	8.5	2-4	9.5	2-5	9.5	2-6
6-6	. .	. .	8.5	2-4	9.5	2-6	9.5	2-6	9.5	2-7
7-0	. .	. .	9.5	2-6	9.5	2-7	9.5	2-8	9.5	2-9
7-6	. .	. .	9.5	2-7	9.5	2-8	9.5	2-9	9.5	2-10
8-0	. .	. .	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-12
8-6	. .	. .	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-12
9-0	9.5	2-17	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-13
9-6	9.5	2-18	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-15
10-0	10.5	2-19	9.5	2-13	9.5	2-14	9.5	2-15	9.5	2-16
10-6	11.0	2-19	9.5	2-14	9.5	2-15	9.5	2-16	9.5	2-17
11-0	11.0	2-20	9.5	2-15	9.5	2-16	9.5	2-17	10.0	2-19
11-6	11.5	2-20	10.0	2-15	10.0	2-17	10.0	2-18	10.5	2-19
12-0	12.0	2-22	10.0	2-16	10.0	2-17	10.5	2-19	10.5	2-19
12-6	12.0	2-22	10.5	2-17	10.5	2-18	11.0	2-19	11.0	2-20
13-0	12.5	2-23	10.5	2-17	11.0	2-19	11.0	2-19	11.5	2-20
13-6	13.0	2-24	11.0	2-18	11.5	2-19	11.5	2-20	11.5	2-21
14-0	13.0	2-24	11.5	2-18	12.0	2-19	12.0	2-20	12.0	2-22
14-6	13.5	2-25	12.0	2-19	12.0	2-20	12.0	2-21	12.0	2-22
15-0	14.0	2-25	12.5	2-19	12.5	2-20	12.5	2-22	12.5	2-23
15-6	15.0	2-26	12.5	2-19	12.5	2-21	12.5	2-22	13.0	2-24
16-0	15.5	2-26	13.0	2-19	13.0	2-21	13.0	2-23	13.0	2-24
16-6	15.5	2-26	13.5	2-20	13.5	2-22	13.5	2-23	13.5	2-25
17-0	15.5	2-27	13.5	2-20	13.5	2-22	13.5	2-24	13.5	2-25
17-6	15.5	2-28	14.0	2-21	14.0	2-23	14.0	2-24	14.0	2-25
18-0	16.0	2-28	14.0	2-22	14.0	2-23	14.0	2-25	14.5	2-26
18-6	16.5	2-29	14.5	2-22	14.5	2-24	14.5	2-26	14.5	2-26
19-0	16.5	2-29	14.5	2-23	14.5	2-25	14.5	2-26	15.0	2-26
19-6	17.0	2-30	15.0	2-23	15.0	2-25	15.0	2-26	15.0	2-27
20-0	17.5	2-31	15.5	2-23	15.5	2-25	15.5	2-26	15.5	2-27
21-0	18.0	2-32	16.0	2-24	16.0	2-26	16.0	2-27	16.0	2-28
22-0	19.0	2-33	16.5	2-25	16.5	2-26	16.5	2-28	16.5	2-29
23-0	19.5	2-34	17.0	2-26	17.0	2-27	17.0	2-29	17.5	2-31
24-0	20.0	2-35	17.5	2-26	17.5	2-28	17.5	2-30	18.0	2-32
25-0	21.0	2-37	18.0	2-27	18.0	2-29	18.0	2-31	18.5	2-33
26-0	21.5	2-37	19.0	2-28	19.0	2-30	19.0	2-32	19.0	2-33
27-0	22.5	2-38	19.5	2-29	19.5	2-31	19.5	2-33	20.0	2-35
28-0	23.0	2-39	20.0	2-30	20.0	2-32	20.0	2-34	20.5	2-36
29-0	24.5	2-40	20.5	2-30	20.5	2-33	20.5	2-35	21.0	2-37
30-0	25.5	2-41	21.0	2-31	21.0	2-33	21.0	2-37	21.5	2-37

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

300 Lbs.

350 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.284		0.330		0.378		0.430		0.122	
C to C Beams	6'-6"		7'-0"		7'-6"		8'-0"		4'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	. .	. .	8.5	2-3
6-6	9.5	2-8	. .	. .	. .	. .	. .	. .	8.5	2-4
7-0	9.5	2-10	9.5	2-10	. .	. .	. .	. .	9.5	2-6
7-6	9.5	2-11	9.5	2-12	9.5	2-12	. .	. .	9.5	2-7
8-0	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-9
8-6	9.5	2-13	9.5	2-14	9.5	2-15	9.5	2-15	9.5	2-10
9-0	9.5	2-14	9.5	2-15	9.5	2-16	9.5	2-17	9.5	2-11
9-6	9.5	2-16	9.5	2-17	10.0	2-19	10.0	2-19	9.5	2-12
10-0	9.5	2-17	9.5	2-18	10.5	2-19	10.5	2-19	9.5	2-13
10-6	10.0	2-19	10.5	2-19	10.5	2-19	11.0	2-19	9.5	2-14
11-0	10.5	2-19	11.0	2-19	11.0	2-20	11.5	2-20	9.5	2-15
11-6	11.0	2-19	11.0	2-20	11.5	2-20	11.5	2-21	10.0	2-15
12-0	11.0	2-20	11.5	2-20	11.5	2-21	12.0	2-22	10.0	2-16
12-6	11.5	2-20	11.5	2-21	12.0	2-22	12.5	2-23	10.5	2-17
13-0	12.0	2-22	12.0	2-22	12.5	2-23	12.5	2-23	10.5	2-17
13-6	12.0	2-22	12.5	2-23	12.5	2-23	13.0	2-24	11.0	2-18
14-0	12.5	2-23	12.5	2-23	13.0	2-24	13.5	2-25	11.5	2-18
14-6	12.5	2-23	13.0	2-24	13.5	2-25	13.5	2-25	12.0	2-19
15-0	13.0	2-24	13.5	2-25	13.5	2-25	14.0	2-26	12.5	2-19
15-6	13.5	2-25	13.5	2-25	14.0	2-25	14.5	2-26	12.5	2-19
16-0	13.5	2-25	14.0	2-25	14.5	2-26	14.5	2-26	13.0	2-19
16-6	14.0	2-25	14.5	2-26	14.5	2-26	15.0	2-26	13.5	2-20
17-0	14.5	2-26	14.5	2-26	15.0	2-27	15.5	2-27	13.5	2-21
17-6	14.5	2-26	15.0	2-26	15.5	2-27	16.0	2-28	14.0	2-21
18-0	15.0	2-26	15.5	2-27	15.5	2-28	16.0	2-28	14.0	2-22
18-6	15.0	2-27	15.5	2-28	16.0	2-28	16.5	2-29	14.5	2-22
19-0	15.5	2-28	16.0	2-28	16.5	2-29	17.0	2-30	14.5	2-23
19-6	16.0	2-28	16.5	2-29	16.5	2-29	17.0	2-30	15.0	2-23
20-0	16.0	2-28	16.5	2-29	17.0	2-30	17.5	2-31	15.5	2-23
21-0	17.0	2-30	17.5	2-31	17.5	2-31	18.5	2-33	16.0	2-24
22-0	17.5	2-31	18.0	2-32	18.5	2-33	19.0	2-33	16.5	2-25
23-0	18.0	2-32	18.5	2-33	19.0	2-33	19.5	2-34	17.0	2-26
24-0	18.5	2-33	19.5	2-34	20.0	2-36	20.5	2-36	17.5	2-26
25-0	19.5	2-34	20.0	2-36	20.5	2-36	21.0	2-37	18.0	2-27
26-0	20.0	2-36	20.5	2-36	21.5	2-37	22.0	2-38	19.0	2-28
27-0	20.5	2-36	21.5	2-37	22.0	2-38	22.5	2-38	19.5	2-29
28-0	21.5	2-37	22.0	2-38	23.0	2-39	23.5	2-39	20.0	2-30
29-0	22.0	2-38	23.0	2-39	23.5	2-39	24.5	2-39	20.5	2-31
30-0	23.0	2-39	23.5	2-39	24.5	2-39	25.5	2-39	21.0	2-31

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

350 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.155		0.191		0.231		0.275		0.322	
C to C Beams	4'-6"		5'-0"		5'-6"		6'-0"		6'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	8.5	2-4	9.5	2-6	9.5	2-7	9.5	2-8	9.5	2-9
6-6	9.5	2-6	9.5	2-7	9.5	2-8	9.5	2-9	9.5	2-9
7-0	9.5	2-7	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-11
7-6	9.5	2-8	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-12
8-0	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-13
8-6	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-14
9-0	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-15	9.5	2-16
9-6	9.5	2-13	9.5	2-14	9.5	2-15	9.5	2-16	9.5	2-17
10-0	9.5	2-14	9.5	2-15	9.5	2-17	9.5	2-18	10.5	2-19
10-6	9.5	2-15	9.5	2-17	10.0	2-19	10.5	2-19	10.5	2-19
11-0	9.5	2-16	9.5	2-18	10.5	2-19	10.5	2-19	11.0	2-19
11-6	10.0	2-17	10.5	2-19	10.5	2-19	11.0	2-19	11.0	2-19
12-0	10.0	2-18	10.5	2-19	11.0	2-19	11.5	2-19	11.5	2-21
12-6	11.0	2-19	11.0	2-19	11.5	2-20	11.5	2-21	12.0	2-22
13-0	11.0	2-19	11.5	2-20	11.5	2-21	12.0	2-22	12.5	2-23
13-6	11.5	2-19	11.5	2-21	12.0	2-22	12.5	2-23	12.5	2-23
14-0	12.0	2-19	12.0	2-22	12.0	2-22	12.5	2-23	13.0	2-24
14-6	12.0	2-20	12.0	2-22	12.5	2-23	13.0	2-24	13.5	2-25
15-0	12.5	2-20	12.5	2-23	13.0	2-24	13.0	2-24	13.5	2-25
15-6	12.5	2-21	12.5	2-23	13.5	2-25	13.5	2-25	14.0	2-25
16-0	13.0	2-21	13.0	2-24	13.5	2-25	14.0	2-25	14.5	2-26
16-6	13.5	2-22	13.5	2-25	13.5	2-25	14.0	2-26	14.5	2-26
17-0	13.5	2-22	13.5	2-25	14.0	2-26	14.5	2-26	15.0	2-26
17-6	14.0	2-23	14.0	2-25	14.5	2-26	15.0	2-26	15.5	2-27
18-0	14.0	2-24	14.0	2-26	14.5	2-26	15.0	2-27	15.5	2-28
18-6	14.5	2-24	14.5	2-26	15.0	2-26	15.5	2-27	16.0	2-28
19-0	14.5	2-25	14.5	2-26	15.5	2-27	16.0	2-28	16.5	2-29
19-6	15.0	2-25	15.0	2-27	15.5	2-28	16.0	2-28	16.5	2-29
20-0	15.5	2-26	15.5	2-27	16.0	2-28	16.5	2-29	17.0	2-30
21-0	16.0	2-26	16.0	2-28	16.5	2-29	17.0	2-30	17.5	2-31
22-0	16.5	2-27	16.5	2-29	17.0	2-30	18.0	2-32	18.5	2-33
23-0	17.0	2-28	17.0	2-30	17.5	2-31	18.5	2-33	19.0	2-33
24-0	17.5	2-29	17.5	2-31	18.0	2-32	19.0	2-33	19.5	2-34
25-0	18.0	2-30	18.5	2-33	19.0	2-33	19.5	2-34	20.5	3-26
26-0	19.0	2-30	19.0	2-33	19.5	2-34	20.5	3-26	21.0	3-27
27-0	19.5	2-31	19.5	2-34	20.5	3-26	21.0	3-27	22.0	3-28
28-0	20.0	2-32	20.0	3-26	21.0	3-27	22.0	3-28	22.5	3-28
29-0	20.5	2-33	21.0	3-27	22.0	3-27	22.5	3-28	23.5	3-29
30-0	21.0	2-34	21.5	3-27	23.0	3-28	23.5	3-29	24.5	3-30



PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

350 Lbs.

400 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.374		0.429		0.488		0.137		0.173	
C to C Beams	7'-0"		7'-6"		8'-0"		4'-0"		4'-6"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	. .	. .	. .	. .	. .	. .	8.5	2-4	9.5	2-6
6-6	. .	. .	. .	. .	. .	. .	9.5	2-6	9.5	2-7
7-0	9.5	2-12	. .	. .	. .	. .	9.5	2-6	9.5	2-8
7-6	9.5	2-12	9.5	2-13	. .	. .	9.5	2-7	9.5	2-10
8-0	9.5	2-14	9.5	2-15	9.5	2-16	9.5	2-9	9.5	2-11
8-6	9.5	2-15	9.5	2-16	9.5	2-17	9.5	2-10	9.5	2-12
9-0	9.5	2-17	10.0	2-19	10.5	2-19	9.5	2-11	9.5	2-13
9-6	10.0	2-19	10.0	2-19	10.5	2-19	9.5	2-13	9.5	2-14
10-0	10.5	2-19	10.5	2-19	11.0	2-19	9.5	2-18	9.5	2-15
10-6	10.5	2-19	11.0	2-19	11.5	2-19	9.5	2-14	9.5	2-17
11-0	11.0	2-19	11.5	2-19	11.5	2-21	9.5	2-15	9.5	2-18
11-6	11.5	2-21	12.0	2-22	12.0	2-22	10.0	2-16	10.5	2-19
12-0	12.0	2-22	12.0	2-22	12.5	2-23	10.0	2-16	10.5	2-19
12-6	12.5	2-23	12.5	2-23	13.0	2-24	10.5	2-17	11.0	2-19
13-0	12.5	2-23	13.0	2-24	13.0	2-24	10.5	2-18	11.5	2-19
13-6	13.0	2-24	13.5	2-25	13.5	2-25	11.0	2-18	11.5	2-21
14-0	13.5	2-25	13.5	2-25	14.0	2-25	12.0	2-19	12.0	2-22
14-6	13.5	2-25	14.0	2-25	14.5	2-26	12.0	2-19	12.0	2-22
15-0	14.0	2-25	14.5	2-26	14.5	2-26	12.5	2-19	12.5	2-23
15-6	14.5	2-26	14.5	2-26	15.0	2-27	12.5	2-19	12.5	2-23
16-0	14.5	2-26	15.0	2-27	15.5	2-27	13.0	2-20	13.0	2-24
16-6	15.0	2-26	15.5	2-27	16.0	2-28	13.5	2-20	13.5	2-25
17-0	15.5	2-27	16.0	2-28	16.0	2-28	13.5	2-21	13.5	2-25
17-6	15.5	2-28	16.0	2-28	16.5	2-29	14.0	2-21	14.0	2-25
18-0	16.0	2-28	16.5	2-29	17.0	2-30	14.0	2-22	14.0	2-26
18-6	16.5	2-29	17.0	2-30	17.5	2-31	14.5	2-22	14.5	2-26
19-0	16.5	2-29	17.0	2-30	17.5	2-31	14.5	2-23	15.0	2-26
19-6	17.0	2-30	17.5	2-31	18.0	2-32	15.0	2-23	15.0	2-27
20-0	17.5	2-31	18.0	2-32	18.5	2-33	15.5	2-24	15.5	2-27
21-0	18.0	2-32	18.5	2-33	19.0	2-33	16.0	2-24	16.0	2-28
22-0	19.0	2-33	19.5	2-34	20.0	2-34	16.5	2-25	16.5	2-29
23-0	19.5	2-34	20.0	2-35	20.5	2-35	17.0	2-26	17.0	2-30
24-0	20.5	2-35	21.0	2-36	21.5	2-36	17.5	2-27	18.0	2-31
25-0	21.0	2-36	21.5	2-37	22.5	2-37	18.0	2-28	18.5	2-32
26-0	22.0	2-37	22.5	2-38	23.0	2-38	19.0	2-29	19.0	2-33
27-0	22.5	2-38	23.5	2-39	24.5	2-39	19.5	2-29	19.5	2-34
28-0	23.5	2-39	24.5	2-40	25.5	2-40	20.0	2-30	20.5	2-35
29-0	24.5	2-40	25.5	2-41	26.5	2-41	20.5	2-31	21.0	2-36
30-0	25.5	2-41	26.5	2-42	27.5	2-42	21.0	2-32	21.5	2-37

PITTSBURGH STEEL PRODUCTS COMPANY

T-Beams with 6-inch Slab

Safe Live Load in Pounds per Square Foot

400 Lbs.

Area of Steel per Lineal Foot of Slab

Sq. In.	0.213		0.258		0.307		0.361		0.418	
C to C Beams	5'-0"		5'-6"		6'-0"		6'-6"		7'-0"	
Span Ft., In.	D	F	D	F	D	F	D	F	D	F
6-0	9.5	2-6	9.5	2-7	9.5	2-8	.	.	.	.
6-6	9.5	2-8	9.5	2-9	9.5	2-10	9.5	2-10	.	.
7-0	9.5	2-9	9.5	2-10	9.5	2-11	9.5	2-12	9.5	2-12
7-6	9.5	2-11	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-14
8-0	9.5	2-12	9.5	2-12	9.5	2-13	9.5	2-14	9.5	2-15
8-6	9.5	2-13	9.5	2-14	9.5	2-15	9.5	2-16	9.5	2-17
9-0	9.5	2-14	9.5	2-15	9.5	2-16	9.5	2-18	10.0	2-19
9-6	9.5	2-15	9.5	2-17	9.5	2-18	10.5	2-19	10.5	2-19
10-0	9.5	2-17	9.5	2-18	10.5	2-19	10.5	2-19	11.0	2-19
10-6	9.5	2-18	10.5	2-19	10.5	2-19	11.0	2-20	11.5	2-20
11-0	10.5	2-19	11.0	2-19	11.0	2-20	11.5	2-20	11.5	2-21
11-6	10.5	2-19	11.0	2-20	11.5	2-20	11.5	2-21	12.0	2-22
12-0	11.0	2-20	11.5	2-20	11.5	2-21	12.0	2-22	12.5	2-23
12-6	11.5	2-20	11.5	2-21	12.0	2-22	12.5	2-23	12.5	2-23
13-0	11.5	2-21	12.0	2-22	12.5	2-23	13.0	2-24	13.0	2-24
13-6	12.0	2-22	12.5	2-23	12.5	2-23	13.0	2-24	13.5	2-25
14-0	12.5	2-23	12.5	2-23	13.0	2-24	13.5	2-25	14.0	2-25
14-6	12.5	2-23	13.0	2-24	13.5	2-25	14.0	2-25	14.0	2-26
15-0	13.0	2-24	13.5	2-25	14.0	2-25	14.0	2-26	14.5	2-26
15-6	13.0	2-24	13.5	2-25	14.0	2-26	14.5	2-26	15.0	2-26
16-0	13.5	2-25	14.0	2-25	14.5	2-26	15.0	2-26	15.5	2-27
16-6	14.0	2-25	14.5	2-26	15.0	2-26	15.0	2-27	15.5	2-28
17-0	14.0	2-26	14.5	2-26	15.0	2-27	15.5	2-28	16.0	2-28
17-6	14.5	2-26	15.0	2-26	15.5	2-27	16.0	2-28	16.5	2-29
18-0	15.0	2-26	15.5	2-27	16.0	2-28	16.5	2-29	17.0	2-30
18-6	15.0	2-27	15.5	2-28	16.0	2-28	16.5	2-29	17.0	2-30
19-0	15.5	2-27	16.0	2-28	16.5	2-29	17.0	2-30	17.5	2-31
19-6	15.5	2-28	16.5	2-29	17.0	2-30	17.5	2-31	18.0	2-32
20-0	16.0	2-28	16.5	2-29	17.0	2-30	17.5	2-31	18.0	2-32
21-0	16.5	2-29	17.5	2-31	18.0	2-32	18.5	2-33	19.0	2-33
22-0	17.0	2-30	18.0	2-32	18.5	2-33	19.0	2-33	20.0	2-36
23-0	18.0	2-32	18.5	2-33	19.5	2-34	19.5	2-34	20.5	2-36
24-0	18.5	2-33	19.5	2-34	20.0	2-35	20.5	2-36	21.5	2-37
25-0	19.0	2-33	20.0	2-36	20.5	2-36	21.5	2-37	22.0	2-38
26-0	20.0	2-36	20.5	2-36	21.5	2-37	22.5	2-38	23.0	2-39
27-0	20.5	2-36	21.5	2-37	22.0	2-38	23.0	2-39	24.5	2-30
28-0	21.0	2-37	22.0	2-38	23.0	2-39	24.5	2-30	24.5	2-30
29-0	22.0	2-38	22.5	2-39	23.5	2-39	24.5	2-30	25.5	2-30
30-0	22.5	2-38	23.5	2-39	24.5	2-30	25.5	2-30	26.5	2-31

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 3-inch Slab

F	2-4				2-5				2-6				22'				
	8'	10'	12'	16'	20'	10'	12'	14'	16'	18'	20'	10'		12'	14'	16'	18'
D	Safe Uniformly Distributed Total Load in 100-pound Units																
Span Ft., In.																	
9-0	71	94	119	179	231	87	112	139	167	192	220	99	127	158	190	219	262
9-6	68	80	112	169	218	82	105	131	157	180	207	93	120	149	179	207	260
10-0	63	84	106	159	206	77	97	124	148	170	195	88	113	141	169	195	251
10-6	60	80	100	150	195	73	94	117	141	161	185	84	107	134	160	185	238
11-0	..	76	95	143	185	70	89	111	133	152	175	79	102	127	152	175	225
11-6	..	72	90	136	175	66	85	106	127	145	166	76	97	121	145	166	214
12-0	..	68	86	130	166	63	81	101	121	138	158	72	93	115	139	158	204
12-6	..	..	82	124	158	..	77	96	115	131	150	..	88	110	132	150	194
13-0	..	..	79	119	151	..	74	92	110	125	143	..	84	105	123	143	186
14-0	..	..	72	109	138	..	67	84	101	113	131	..	77	96	115	131	170
15-0	..	..	66	100	126	..	62	77	93	103	119	..	71	89	106	120	155
16-0	..	..	61	92	115	..	..	71	85	95	109	..	..	82	98	110	142
17-0	..	..	56	85	105	..	..	65	79	87	100	..	..	76	90	102	130
18-0	..	..	..	79	96	..	..	61	73	79	92	..	..	70	84	94	120
19-0	..	..	..	73	88	..	..	56	67	73	84	..	..	65	78	86	110
20-0	..	..	..	68	82	..	..	..	63	67	77	..	..	..	73	79	103
21-0	..	..	..	64	76	..	..	..	58	62	71	..	..	..	68	74	96
22-0	..	..	..	..	70	..	..	..	54	57	65	..	..	..	63	68	87
23-0	..	..	..	..	64	..	..	..	..	52	60	..	..	..	..	62	80
24-0	..	..	..	..	51	..	..	..	..	47	55	..	..	..	..	58	74
25-0	..	..	..	..	47	..	..	..	..	43	50	..	..	..	..	53	68
26-0	..	..	..	..	44	..	..	..	..	39	45	..	..	..	..	48	62
27-0	..	..	..	..	41	..	..	..	..	41	41	..	..	..	..	..	57
28-0	..	..	..	..	38	..	..	..	..	..	38	..	..	..	..	..	52
29-0	..	..	..	..	35	..	..	..	..	..	35	..	..	..	..	..	47
30-0	..	..	..	..	32	..	..	..	..	..	32	..	..	..	..	..	43

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 3-inch Slab

F	2-7						2-8						2-9					
	10'	12'	14'	18'	22'	24'	10'	12'	14'	18'	22'	26'	10'	12'	14'	18'	22'	26'
Span Ft., In.	Safe Uniformly Distributed Total Load in 100-pound Units																	
9-0	111	142	177	246	316	353	124	160	199	275	355	431	138	177	220	306	394	484
9-6	105	135	167	232	299	333	117	151	188	259	335	407	130	167	208	289	372	457
10-0	99	127	158	219	282	315	111	143	178	245	317	385	123	158	197	278	351	432
10-6	94	121	150	207	269	300	105	135	169	232	300	365	117	150	187	259	333	409
11-0	89	115	143	197	254	284	100	129	160	221	285	346	111	143	178	246	316	388
11-6	85	109	136	187	242	269	96	123	153	210	271	329	106	136	170	234	301	369
12-0	81	104	130	178	230	255	91	117	146	200	258	314	101	130	162	223	287	352
12-6	77	99	124	170	219	244	86	112	139	191	246	300	96	124	155	213	274	337
13-0	73	95	118	162	209	233	81	107	133	183	235	286	91	119	148	208	262	322
14-0	69	87	109	148	191	213	76	98	122	168	215	262	86	109	136	186	241	296
15-0	65	80	100	136	175	196	71	91	113	154	198	241	76	101	126	172	222	273
16-0	61	76	93	125	161	180	66	86	105	142	183	223	71	96	117	159	205	252
17-0	57	72	86	115	149	166	61	81	97	131	169	206	66	91	109	147	189	233
18-0	53	68	80	106	138	153	56	76	91	121	157	191	61	86	101	137	176	217
19-0	49	64	74	98	128	142	51	71	84	113	146	177	56	81	95	127	164	202
20-0	45	60	71	91	118	132	46	66	78	105	135	165	51	76	89	118	153	189
21-0	41	56	67	85	110	123	41	61	73	98	126	154	46	71	84	111	143	176
22-0	37	52	63	79	102	114	36	56	68	92	118	143	41	66	79	104	134	164
23-0	33	48	59	74	94	106	31	51	63	86	110	133	36	61	74	97	125	153
24-0	29	44	55	69	87	98	26	46	58	80	102	124	31	56	69	90	117	143
25-0	25	40	51	64	81	91	21	41	53	74	95	115	26	51	64	84	109	134
26-0	21	36	47	58	75	84	16	36	48	68	89	107	21	46	59	78	101	125
27-0	17	32	43	54	69	78	11	31	43	61	83	100	16	41	54	74	94	117
28-0	13	28	39	50	63	72	6	26	38	56	77	93	11	36	49	69	88	109
29-0	9	24	35	46	58	66	1	21	33	51	71	86	6	31	44	64	82	102
30-0	5	20	31	42	53	60	..	16	28	46	65	79	1	26	39	59	77	95

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 3-inch Slab

F	2-10										2-11						2-12							
	10'	12'	14'	18'	22'	26'	10'	12'	14'	18'	22'	26'	10'	12'	14'	18'	22'	26'	10'	12'	14'	18'	22'	26'
D	Safe Uniformly Distributed Load in 100-pound Units																							
Span Ft., In.																								
9-0	153	196	244	339	437	535	167	215	268	372	479	588	172	257	330	445	573	703	172	257	330	445	573	703
9-6	144	186	231	320	412	506	158	204	253	352	453	556	163	248	302	418	548	685	163	248	302	418	548	685
10-0	137	176	218	303	390	478	150	193	240	333	439	536	154	231	287	398	513	639	154	231	287	398	513	639
10-6	130	167	207	287	370	453	143	183	228	317	407	499	147	219	272	378	489	597	147	219	272	378	489	597
11-0	123	159	197	273	351	431	136	174	217	301	387	474	140	200	250	359	466	568	140	200	250	359	466	568
11-6	118	151	188	260	334	411	129	166	207	286	368	451	133	190	248	342	442	542	133	190	248	342	442	542
12-0	112	144	180	248	319	392	123	159	197	273	351	430	127	190	236	327	421	517	127	190	236	327	421	517
12-6	.	138	172	237	305	374	.	152	189	261	336	412	.	182	226	313	403	495	.	182	226	313	403	495
13-0	.	132	164	227	292	358	.	145	181	250	322	394	.	174	217	300	386	474	.	174	217	300	386	474
14-0	.	122	152	203	265	329	.	134	167	229	296	362	.	161	200	276	356	437	.	161	200	276	356	437
15-0	.	113	140	192	247	304	.	124	154	211	273	335	.	149	186	255	329	404	.	149	186	255	329	404
16-0	.	.	130	178	229	281	.	.	148	196	253	311	.	.	173	237	306	375	.	.	173	237	306	375
17-0	.	.	121	166	213	261	.	.	134	182	235	289	.	.	161	221	285	350	.	.	161	221	285	350
18-0	.	.	113	154	198	243	.	.	125	170	219	270	.	.	151	207	267	327	.	.	151	207	267	327
19-0	.	.	106	143	184	227	.	.	117	160	205	252	.	.	142	193	249	305	.	.	142	193	249	305
20-0	.	.	.	133	172	212	.	.	.	148	192	235	.	.	.	181	234	287	.	.	.	181	234	287
21-0	.	.	.	125	161	198	.	.	.	139	181	221	.	.	.	171	221	270	.	.	.	171	221	270
22-0	.	.	.	117	151	186	.	.	.	131	170	207	.	.	.	161	208	254	.	.	.	161	208	254
23-0	.	.	.	110	142	175	.	.	.	123	160	194	.	.	.	152	196	239	.	.	.	152	196	239
24-0	.	.	.	103	133	164	.	.	.	115	150	183	.	.	.	143	184	226	.	.	.	143	184	226
25-0	.	.	.	96	124	153	.	.	.	108	140	172	.	.	.	134	173	213	.	.	.	134	173	213
26-0	.	.	.	90	116	143	.	.	.	102	131	162	.	.	.	127	164	201	.	.	.	127	164	201
27-0	.	.	.	.	109	134	.	.	.	.	123	152	.	.	.	.	155	190	.	.	.	.	155	190
28-0	.	.	.	.	102	126	.	.	.	.	116	143	.	.	.	.	146	180	.	.	.	.	146	180
29-0	.	.	.	.	95	118	.	.	.	.	100	134	.	.	.	.	138	170	.	.	.	.	138	170
30-0	.	.	.	.	89	110	.	.	.	.	102	126	.	.	.	.	130	160	.	.	.	.	130	160

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 3-inch Slab

F	2-13					2-14					2-15							
	12'	14'	16'	18'	22'	26'	12'	14'	16'	18'	22'	26'	14'	16'	18'	20'	22'	26'
D	Safe Uniformly Distributed Total Load in 100-pound Units																	
Span Ft., In.																		
9-0	280	348	418	484	624	765	928	376	451	524	675	828	407	488	567	649	780	885
9-6	295	369	443	513	660	814	998	396	487	565	722	888	428	514	600	736	894	1020
10-0	351	432	519	600	768	948	1152	444	549	632	804	992	477	570	664	816	1008	1176
10-6	398	496	597	702	900	1116	1352	504	624	720	912	1128	528	636	744	912	1128	1320
11-0	427	532	642	756	984	1236	1488	552	684	804	1032	1284	576	696	816	1008	1248	1488
11-6	477	594	718	846	1104	1386	1656	600	744	876	1128	1392	624	756	888	1080	1336	1608
12-6	598	738	888	1044	1368	1728	2088	720	884	1056	1344	1656	744	896	1068	1296	1584	1920
13-0	696	858	1032	1212	1584	2016	2448	816	1004	1200	1512	1872	840	1008	1188	1440	1776	2184
14-0	816	1008	1212	1428	1872	2400	2952	936	1152	1368	1752	2184	960	1152	1344	1632	2016	2520
15-0	960	1188	1428	1680	2208	2880	3552	1080	1320	1560	2016	2520	1104	1320	1536	1872	2304	2880
16-0	1128	1392	1680	1980	2640	3408	4176	1224	1488	1752	2280	2880	1248	1488	1728	2112	2640	3312
17-0	1320	1632	1968	2328	3096	4008	4968	1392	1680	1992	2592	3264	1344	1632	1920	2352	2976	3744
18-0	1536	1896	2280	2700	3552	4608	5664	1584	1920	2280	3024	3816	1440	1776	2112	2592	3264	4128
19-0	1776	2184	2616	3084	4080	5316	6504	1800	2208	2640	3456	4368	1560	1920	2304	2832	3552	4512
20-0	2040	2508	3048	3624	4752	6120	7512	2040	2520	3000	3936	4968	1716	2112	2544	3168	3984	5040
21-0	2328	2868	3480	4140	5400	6912	8496	2304	2880	3456	4536	5760	1944	2376	2864	3552	4464	5664
22-0	2640	3240	3936	4680	6048	7824	9624	2592	3240	3900	5088	6432	2160	2640	3168	3936	4944	6240
23-0	2984	3672	4464	5316	6816	8856	10944	2916	3648	4416	5808	7344	2448	3024	3648	4536	5664	7056
24-0	3360	4152	5016	5964	7680	10032	12384	3240	4080	4920	6432	8112	2736	3360	4032	4968	6144	7632
25-0	3768	4656	5616	6624	8592	11136	13872	3600	4560	5496	7200	9072	3048	3768	4536	5568	6864	8544
26-0	4200	5184	6240	7356	9600	12480	15408	4008	5088	6120	8016	10032	3384	4176	5040	6144	7536	9312
27-0	4664	5748	6888	8088	10656	13872	17016	4464	5664	6816	9000	11232	3744	4608	5568	6768	8256	10224
28-0	5160	6336	7584	8892	11664	15168	18912	4944	6240	7512	10008	12576	4128	5088	6144	7464	9072	11232
29-0	5688	6960	8328	9756	12816	16656	20664	5448	6840	8240	10944	13824	4536	5568	6720	8160	9936	12312
30-0	6240	7608	9072	10644	13920	18000	22512	6000	7560	9048	12096	15216	4968	6096	7344	8880	10896	13344

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 3-inch Slab

F	2-16						2-17				2-18				2-19			
	14'	16'	18'	20'	22'	26'	16'	18'	20'	22'	26'	20'	22'	26'	22'	24'	26'	28'
D	Span																	
Ft., In.	Total Load in 100-pound Units																	
9-0	407	522	609	698	784	962	522	644	750	843	1095	770	910	1107	910	955	1281	
9-6	885	494	576	660	742	910	493	609	710	798	980	728	854	1048	854	904	1213	
10-0	805	468	546	625	703	893	468	577	673	756	938	690	810	993	810	856	1149	
10-6	847	445	519	594	668	819	445	548	639	719	882	656	769	944	769	813	1092	
11-0	381	424	494	566	636	780	424	523	600	685	840	625	733	899	733	774	1040	
11-6	316	405	473	540	607	745	405	499	582	654	803	597	700	859	700	739	993	
12-0	302	387	450	516	580	712	387	477	556	624	768	570	669	821	669	707	950	
12-6	289	371	431	494	556	682	371	455	532	598	734	546	641	786	641	677	911	
13-0	277	356	414	474	533	654	356	438	510	574	704	524	614	754	614	650	874	
14-0	256	329	382	437	492	603	329	404	471	529	650	484	568	696	568	600	807	
15-0	238	306	354	405	456	560	306	375	437	491	603	449	527	647	527	557	749	
16-0	222	285	330	378	425	521	285	349	407	458	562	418	491	603	491	519	699	
17-0	207	267	308	353	398	495	267	326	381	428	525	391	459	561	459	485	654	
18-0	195	251	289	331	373	457	251	306	357	401	492	367	431	529	431	454	614	
19-0	183	236	271	310	349	429	236	287	335	377	462	344	405	497	405	426	577	
20-0	171	222	255	292	329	404	222	271	316	355	436	325	382	469	382	403	545	
21-0	160	210	240	276	310	381	210	255	298	336	413	306	361	447	361	381	515	
22-0	150	199	228	261	293	360	199	242	282	318	391	290	341	425	341	360	488	
23-0	140	188	216	247	277	341	188	229	267	301	370	275	323	403	323	341	463	
24-0	130	177	204	234	262	323	177	217	254	285	351	261	307	381	307	323	440	
25-0	120	166	193	222	249	307	166	206	241	271	338	248	292	359	292	307	418	
26-0	110	155	181	211	237	291	155	196	230	258	317	236	278	342	278	293	398	
27-0	100	144	169	201	225	276	144	185	217	245	301	224	264	325	264	279	379	
28-0	90	133	157	191	214	262	133	174	203	231	286	213	252	309	252	266	362	
29-0	80	122	145	181	204	250	122	163	191	219	273	203	240	295	240	253	346	
30-0	70	111	133	171	194	238	111	152	179	207	260	193	229	282	229	241	330	

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 3½-inch Slab

F	2-4								2-5								2-6										
	8'	10'	12'	14'	16'	20'	10'	12'	14'	16'	18'	20'	10'	12'	14'	16'	18'	20'	10'	12'	14'	16'	18'	20'	22'		
D	Safe Uniformly Distributed Total Load in 100-pound Units																										
Span Ft., In.																											
9-0	71	94	118	142	176	228	87	112	138	164	190	218	99	128	157	187	211	247	277								
9-6	67	89	111	134	166	214	82	106	130	154	179	205	94	120	148	176	203	232	262								
10-0	63	84	105	127	157	202	78	100	123	146	168	194	89	114	140	166	193	220	247								
10-6	60	80	99	120	149	191	74	95	116	139	159	188	84	108	132	158	183	210	234								
11-0	..	76	95	114	141	181	70	90	110	132	151	178	80	103	126	150	180	200	222								
11-6	..	73	90	108	134	172	66	85	105	125	143	164	76	98	120	142	166	190	211								
12-0	..	69	86	103	128	163	63	81	100	119	136	155	72	93	114	136	160	180	201								
12-6	..	66	82	98	122	155	..	78	95	113	129	149	..	89	109	129	150	170	191								
13-0	..	..	78	94	117	149	..	74	91	108	123	141	..	85	104	124	143	163	182								
14-0	..	..	72	86	108	136	..	68	83	98	112	128	..	78	95	114	131	149	166								
15-0	..	..	66	78	99	124	..	62	77	92	102	118	..	72	88	105	121	135	152								
16-0	..	..	61	72	90	114	..	..	71	84	94	108	..	..	81	97	115	130	140								
17-0	..	..	56	67	84	106	..	..	65	77	86	100	..	..	75	90	106	116	130								
18-0	..	..	..	62	78	96	..	..	61	72	79	92	..	..	70	83	96	105	119								
19-0	..	..	..	58	72	88	..	..	56	67	73	84	..	..	65	78	90	100	109								
20-0	..	..	..	54	67	82	..	..	..	62	67	75	..	..	..	72	84	94	101								
21-0	..	..	..	..	63	76	..	..	..	58	63	70	..	..	..	68	81	94	101								
22-0	..	..	..	..	58	70	..	..	..	54	58	65	..	..	..	63	77	87	97								
23-0	..	..	..	..	54	64	..	..	..	53	53	60	..	..	..	..	72	80	89								
24-0	..	..	..	..	50	59	..	..	..	48	48	55	..	..	..	..	65	74	80								
25-0	..	..	..	..	..	54	..	..	..	..	43	49	..	..	..	..	60	68	74								
26-0	..	..	..	..	..	49	..	..	..	..	39	45	..	..	..	..	55	63	68								
27-0	..	..	..	..	..	44	..	..	..	..	..	41	..	..	..	..	52	58	63								
28-0	..	..	..	..	..	39	..	..	..	..	..	37	..	..	..	..	47	53	58								
29-0	..	..	..	..	..	35	..	..	..	..	..	33	..	..	..	..	42	49	53								
30-0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..								



T-Girders and Special T-Beams with 3½-inch Slab

F	2-7							2-8							2-9				
	10'	12'	14'	16'	20'	24'	30'	10'	12'	14'	16'	20'	24'	28'	30'	10'	12'	14'	16'
D	111	143	176	210	278	349	449	125	160	197	235	312	392	472	510	138	177	218	290
Span Ft., In.	9-0	9-6	10-0	10-6	11-0	11-6	12-0	9-0	9-6	10-0	10-6	11-0	11-6	12-0	12-6	13-0	13-6	14-0	14-6
	105	128	157	188	248	330	430	118	151	186	222	296	371	446	483	131	168	206	296
	99	128	157	188	248	330	430	111	143	176	210	278	349	421	455	124	159	195	283
	94	121	149	180	236	294	364	106	135	167	199	264	331	398	430	117	151	185	262
	89	115	141	172	224	280	350	101	129	159	190	251	314	378	409	112	148	176	210
	85	110	135	164	212	266	334	96	123	151	181	238	299	360	390	106	137	168	201
	81	105	128	156	202	254	324	91	117	144	171	227	285	342	371	101	130	160	192
	77	100	123	147	192	241	308	86	112	138	165	216	272	327	355	96	125	153	183
	73	96	117	141	184	231	298	81	107	132	158	207	261	313	339	91	119	147	176
	69	91	111	133	174	221	288	76	101	125	149	196	248	296	319	86	110	135	162
	65	87	106	127	166	211	276	71	96	119	142	188	236	281	299	81	105	128	154
	61	82	100	119	156	199	262	66	91	112	133	174	219	253	286	76	102	125	149
	57	77	95	113	149	189	249	61	86	104	124	161	202	244	264	71	96	116	138
	53	73	90	107	141	179	236	56	81	97	115	154	195	236	244	66	91	108	128
	49	69	85	101	133	168	222	51	76	90	108	148	172	210	227	61	86	101	120
	45	64	79	94	124	156	206	46	71	84	101	132	160	194	210	56	81	94	112
	41	60	74	89	114	142	186	41	66	78	94	119	150	181	196	51	76	88	105
	37	56	70	84	109	136	176	36	61	72	88	105	132	163	184	46	71	81	93
	33	51	65	78	101	124	161	31	56	67	83	105	132	158	173	41	66	76	81
	29	47	60	73	94	114	146	26	51	61	77	98	123	147	161	36	61	71	76
	25	43	56	68	89	106	134	21	46	56	72	90	114	137	150	31	56	66	71
	21	39	51	63	82	99	122	16	41	50	66	83	105	127	138	26	51	61	66
	17	35	46	57	75	91	109	11	36	45	61	78	98	120	130	21	46	56	61
	13	31	41	51	68	82	98	6	31	40	56	72	91	112	121	16	41	51	56
	9	27	36	45	61	73	87	1	26	35	50	67	85	104	113	11	36	46	51
	5	23	31	39	53	64	78	0	21	29	43	59	77	96	104	6	31	41	46
	1	19	26	33	45	55	67	0	16	23	36	50	66	88	95	1	26	36	41
	0	15	21	27	37	46	57	0	11	18	29	41	55	73	88	0	21	31	36

T-Girders and Special T-Beams with 3 1/2-inch Slab

F	2-9					2-10					2-11									
	20'	24'	28'	30'		10'	12'	14'	16'	20'	24'	28'	30'	10'	12'	14'	16'	20'	24'	
D	Safe Uniformly Distributed Total Load in 100-pound Units																			
Span Ft., In.																				
9-0	845	484	523	568	197	242	280	388	482	580	681	168	216	295	317	421	529			
9-6	827	411	494	537	145	186	228	274	363	456	548	159	204	251	300	398	501			
10-0	808	388	467	507	137	176	216	250	343	430	519	150	198	237	294	376	478			
10-6	803	368	444	481	180	167	205	246	326	409	498	143	188	225	270	358	450			
11-0	779	349	421	457	124	159	195	234	310	388	468	136	175	215	253	341	427			
11-6	265	333	402	435	118	152	187	223	294	371	446	130	167	205	245	324	408			
12-0	253	318	382	414	113	145	178	213	281	354	426	124	159	195	234	309	389			
12-6	241	303	365	396	139	170	203	238	307	377	441	113	152	187	224	295	371			
13-0	231	291	349	379	133	163	195	237	303	370	432	113	146	179	215	283	356			
14-0	212	267	321	348	122	150	180	226	297	358	422	113	134	165	197	261	327			
15-0	195	245	295	320	113	139	166	217	273	330	389	113	125	153	182	240	302			
16-0	180	226	273	296	129	154	184	231	283	345	405	113	142	170	222	280	346			
17-0	167	209	253	274	120	144	177	224	277	340	400	113	138	163	207	262	327			
18-0	155	198	235	255	113	134	164	211	264	328	388	113	124	149	193	246	311			
19-0	144	181	219	237	105	125	152	202	255	320	380	113	116	139	180	231	296			
20-0	134	169	204	222	118	152	191	240	293	360	420	113	116	131	168	217	282			
21-0	125	159	191	208	111	142	179	231	285	355	415	113	116	123	158	202	267			
22-0	117	148	178	195	105	133	167	220	274	345	405	113	116	116	148	187	252			
23-0	110	137	167	181	105	125	157	210	264	335	395	113	116	116	148	187	252			
24-0	108	130	156	170	105	125	157	210	264	335	395	113	116	116	148	187	252			
25-0	96	121	146	158	109	138	166	220	274	345	405	113	116	116	148	187	252			
26-0	90	113	137	149	103	130	157	211	264	335	395	113	116	116	148	187	252			
27-0	84	106	129	140	97	122	147	202	255	326	386	113	116	116	148	187	252			
28-0	78	99	120	131	91	114	138	191	240	311	371	113	116	116	148	187	252			
29-0	73	93	112	122	85	106	129	179	231	302	362	113	116	116	148	187	252			
30-0	..	85	103	113	..	98	120	160	210	281	341	113	116	116	148	187	252			

## T-Girders and Special T-Beams with 3½-inch Slab

Span Ft., In.	2-11						2-12						2-13					
	28"	30"	10'	12'	14'	16'	20'	24'	28'	30'	10'	12'	14'	16'	20'	24'	28'	30'
	Safe Uniformly Distributed Total Load in 100-pound Units																	
9-0	637	692	900	258	317	378	503	632	761	827	901	980	345	412	548	688	829	900
9-6	603	656	189	244	299	358	476	594	721	783	191	265	326	390	519	654	785	833
10-0	570	619	180	231	284	339	450	566	683	740	181	251	309	369	490	616	742	806
10-6	541	590	171	219	270	322	427	537	648	704	172	239	294	351	465	585	705	767
11-0	515	561	162	209	257	306	407	512	617	670	163	228	280	334	443	557	671	730
11-6	491	533	155	200	245	293	389	488	589	639	156	217	267	319	423	532	640	697
12-0	468	510	148	191	234	281	371	466	562	614	149	208	255	305	408	507	611	665
12-6	447	486	.	183	221	268	354	445	537	573	.	190	244	292	386	486	584	636
13-0	428	467	.	175	215	258	339	427	514	559	.	191	234	280	370	476	560	609
14-0	393	428	.	162	198	238	318	398	473	515	.	176	216	258	344	429	516	561
15-0	365	396	.	150	184	220	289	365	438	476	.	163	201	240	318	397	479	520
16-0	337	366	.	141	171	204	269	338	407	442	.	157	197	223	294	369	445	483
17-0	314	342	.	133	160	191	251	316	380	413	.	150	185	209	274	344	415	450
18-0	293	318	.	126	150	179	234	297	355	385	.	141	176	196	256	323	389	411
19-0	273	298	.	119	141	168	219	276	330	359	.	134	164	184	240	302	364	394
20-0	255	278	.	113	133	158	205	258	311	338	.	127	154	173	225	284	342	371
21-0	241	263	.	107	126	149	194	244	295	319	.	121	146	164	211	270	322	351
22-0	227	248	.	101	119	141	183	229	279	301	.	115	139	157	200	256	304	331
23-0	213	233	.	96	113	133	172	218	263	284	.	109	131	148	188	242	287	318
24-0	200	218	.	91	107	126	161	203	247	270	.	104	124	141	178	227	271	296
25-0	187	203	.	86	102	119	151	192	231	254	.	99	117	133	168	212	256	281
26-0	177	192	.	81	96	113	143	182	219	241	.	94	111	126	159	202	244	267
27-0	167	181	.	76	91	106	136	172	207	228	.	89	105	119	151	190	232	253
28-0	157	170	.	71	86	101	129	163	198	218	.	84	100	113	142	180	220	239
29-0	147	160	.	66	81	96	122	154	190	209	.	79	94	106	135	170	210	225
30-0	138	150	.	61	76	91	115	145	173	190	.	74	89	100	126	162	200	212

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 3 1/2-inch Slab

F	2-14						2-15						2-16					
	12'	14'	16'	20'	24'	28'	30'	12'	14'	16'	20'	24'	28'	30'	12'	14'	16'	18'
D	Safe Uniformly Distributed Total Load in 100-pound Units																	
Span Ft.In.																		
9-0	303	373	445	575	744	896	974	398	408	481	641	805	970	1053	382	433	517	602
9-6	237	352	421	544	706	848	923	310	381	455	607	768	919	969	315	410	490	569
10-0	277	394	463	615	803	973	873	294	361	432	574	731	860	944	298	388	464	540
10-6	359	518	597	790	1036	1244	1329	580	644	710	846	1005	1165	1237	283	369	441	512
11-0	246	308	361	466	606	737	829	297	327	390	516	653	783	865	270	352	420	488
11-6	295	389	445	576	756	904	974	235	313	373	497	623	748	827	258	336	402	466
12-0	225	276	330	424	549	663	720	243	299	357	475	596	711	788	247	321	384	445
12-6	215	264	316	406	523	635	689	233	286	342	453	570	674	746	236	308	368	426
13-0	207	254	303	390	504	609	660	224	275	328	435	547	653	721	227	295	353	409
14-0	191	234	280	359	467	561	609	207	254	303	401	505	607	671	209	273	323	377
15-0	177	218	250	322	431	520	567	192	236	282	372	469	566	621	195	254	308	350
16-0	160	203	242	309	401	483	525	177	220	262	346	435	524	569	177	237	283	326
17-0	144	186	225	289	374	451	490	162	205	245	323	407	491	537	162	221	265	304
18-0	128	170	208	270	351	423	458	147	193	231	303	381	459	505	147	208	249	286
19-0	112	154	190	253	331	395	429	132	181	217	284	356	431	473	132	196	234	268
20-0	96	138	178	238	309	372	405	117	165	205	267	336	405	440	117	177	221	252
21-0	80	122	162	226	292	354	385	102	150	193	252	319	386	419	102	162	209	238
22-0	64	106	146	206	276	335	365	87	135	183	238	302	366	398	87	147	198	225
23-0	48	90	130	204	290	347	375	72	119	169	223	286	347	377	72	132	183	213
24-0	32	74	114	190	246	298	325	57	104	154	214	270	323	355	57	117	168	202
25-0	16	58	98	178	232	280	305	42	88	138	202	254	306	338	42	102	153	191
26-0	1	42	82	169	221	267	291	27	72	122	192	242	292	318	27	97	148	182
27-0	1	26	66	160	209	254	277	12	66	116	182	230	279	303	12	82	133	171
28-0	1	10	50	152	199	241	263	7	60	110	173	219	265	288	7	77	128	166
29-0	1	4	34	144	188	228	249	2	54	104	164	208	252	273	2	72	123	161
30-0	1	3	28	138	178	215	234	1	48	98	156	197	238	258	1	67	118	156

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 3 1/2-inch Slab

F	2-16					2-17					2-18									
	20'	24'	28'	30'	30'	14'	16'	18'	20'	24'	28'	30'	14'	16'	18'	20'	24'	28'	30'	
D	Safe Uniformly Distributed Total Load in 100-pound Units																			
Span Ft., in.																				
9-0	688	864	1042	1129	1129	465	555	647	741	840	940	1121	1218	491	595	693	793	988	1190	1808
9-6	651	818	985	1069	1069	440	525	612	701	800	890	1063	1155	465	563	655	751	933	1138	1297
10-0	618	775	934	1012	1012	418	498	580	665	763	843	1005	1092	441	534	621	718	884	1076	1169
10-6	587	740	897	969	969	397	473	551	631	728	802	965	1058	419	508	590	677	840	1026	1114
11-0	559	705	844	916	916	378	451	525	601	704	764	910	980	400	484	562	645	801	972	1058
11-6	534	669	806	875	875	362	431	502	575	723	723	869	944	382	462	537	616	766	927	1014
12-0	510	641	769	835	835	346	412	479	548	696	696	830	902	365	442	513	589	732	895	970
12-6	488	613	738	800	800	331	395	459	525	666	666	795	864	350	424	492	563	702	850	926
13-0	468	588	707	766	766	318	379	440	504	638	638	763	828	336	407	471	540	674	815	892
14-0	432	543	653	709	709	304	350	406	465	585	585	704	765	310	376	435	498	624	753	824
15-0	400	504	607	658	658	278	326	377	431	545	545	653	710	289	350	405	463	580	700	763
16-0	373	469	565	612	612	255	304	351	402	507	507	609	662	269	323	377	432	542	653	710
17-0	348	441	528	572	572	239	284	328	376	473	473	570	619	252	306	352	408	506	613	668
18-0	327	411	496	532	532	224	267	308	352	444	444	535	581	237	288	331	383	476	575	626
19-0	307	386	465	504	504	211	252	289	330	417	417	502	545	223	271	311	360	447	540	587
20-0	289	363	438	474	474	198	238	272	312	388	388	473	514	208	256	293	336	422	508	553
21-0	273	347	418	451	451	185	225	257	294	372	372	447	490	192	242	277	318	402	484	527
22-0	259	330	398	428	428	173	213	244	279	352	352	424	466	180	230	262	301	382	460	501
23-0	244	313	370	405	405	162	201	231	264	333	333	401	442	170	220	249	285	362	434	475
24-0	231	295	352	383	383	151	190	219	251	315	315	380	418	160	210	235	270	342	413	449
25-0	219	276	333	360	360	140	179	208	238	299	299	361	392	150	200	224	257	323	389	428
26-0	209	263	318	344	344	130	169	198	227	282	282	346	375	140	190	213	245	305	372	405
27-0	199	251	304	328	328	120	159	188	216	266	266	328	358	130	180	203	234	288	355	387
28-0	189	239	289	313	313	110	149	178	205	250	250	315	341	120	170	193	223	271	338	369
29-0	179	227	274	297	297	100	139	168	195	234	234	299	324	110	160	183	212	254	318	351
30-0	170	215	259	281	281	90	129	158	185	219	219	283	308	100	150	173	202	244	306	338

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 3½-inch Slab

F	2-19						2-20						2-21					
	16'	18'	20'	22'	24'	32'	18'	20'	22'	24'	28'	32'	18'	20'	22'	24'	28'	32'
D	612	760	850	960	1106	1388	1578	775	942	1023	1176	1425	1675	1108	1250	1517	1778	
Span F.t., In.	9-0	7-10	9-0	9-0	10-16	12-6	14-8	7-8	8-6	9-8	11-13	13-4	15-8	10-48	11-83	14-86	16-83	
	549	681	763	863	993	1202	1412	695	845	918	1055	1279	1504	999	1123	1362	1596	
	522	648	725	819	943	1142	1342	660	803	872	1008	1215	1480	945	1066	1294	1517	
	497	617	691	780	869	1088	1280	629	766	831	957	1159	1394	901	1016	1236	1447	
	475	590	660	745	859	1089	1288	601	732	794	914	1107	1303	861	971	1179	1384	
	455	564	631	712	820	993	1171	575	699	759	878	1058	1246	823	928	1127	1323	
	436	540	604	683	786	951	1122	551	670	728	837	1014	1194	789	890	1080	1268	
	418	518	580	655	755	912	1076	528	643	698	803	973	1146	757	854	1037	1218	
	387	479	536	605	698	842	995	488	595	645	743	899	1065	700	790	958	1127	
	359	445	498	562	649	782	924	454	553	600	690	836	985	651	734	891	1051	
	336	415	464	524	605	731	860	423	516	559	643	780	918	607	685	832	981	
	315	388	434	490	566	684	805	396	482	523	602	731	868	568	641	779	920	
	296	364	408	461	533	642	757	372	454	492	566	687	818	534	603	733	862	
	279	343	383	433	500	605	711	350	427	462	532	645	768	503	567	689	810	
	263	323	362	409	473	571	672	330	403	437	503	610	718	475	536	651	764	
	250	306	342	386	447	540	635	312	381	413	475	582	680	449	507	616	726	
	237	290	324	366	424	512	603	295	362	392	451	554	645	427	482	585	689	
	225	275	307	347	402	486	571	281	343	372	428	526	613	405	457	556	652	
	211	261	292	330	382	460	544	267	326	353	406	498	583	385	435	523	623	
	248	314	352	397	463	549	635	254	310	336	387	470	554	367	414	503	591	
	235	295	329	369	429	509	595	236	296	321	372	453	531	350	396	481	566	
	222	282	315	354	414	494	579	222	282	305	357	435	508	333	377	459	541	
	210	269	301	340	400	480	565	207	267	292	341	416	485	319	360	439	518	
	200	258	289	327	387	467	552	193	253	279	327	396	462	305	345	419	494	
	190	247	277	314	374	454	539	179	239	265	313	374	440	292	330	402	471	

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4-inch Slab

F	2-4				2-5				2-6							
	8'	10'	12'	16'	20'	10'	12'	14'	16'	20'	10'	12'	14'	16'	20'	22'
D	Safe Uniformly Distributed Total Load in 100-pound Units															
Span Ft., In.																
9-0	71	95	118	176	226	87	112	137	164	215	100	128	156	187	245	277
9-6	67	89	111	166	213	82	106	129	155	203	94	121	147	176	231	262
10-0	64	85	105	157	201	78	100	122	146	192	89	114	139	166	219	246
10-6	60	80	100	148	190	74	95	116	139	181	84	108	132	157	207	234
11-0	..	76	95	141	180	70	90	110	132	173	80	103	125	148	195	221
11-6	..	73	90	134	171	67	86	105	125	163	76	98	119	141	185	210
12-0	..	69	86	127	163	64	82	100	119	155	73	93	113	134	177	199
12-6	..	66	82	121	154	..	78	95	114	148	..	80	109	130	169	191
13-0	..	63	79	117	147	..	74	91	109	141	..	85	104	124	161	182
14-0	..	58	72	107	134	..	68	83	99	128	..	78	95	114	147	168
15-0	..	..	66	98	123	..	63	77	91	117	..	72	88	105	135	154
16-0	..	..	61	91	113	..	..	71	84	107	..	..	81	97	124	142
17-0	..	..	57	84	105	..	..	65	78	99	..	..	75	90	114	130
18-0	..	..	..	78	96	..	..	61	72	91	..	..	70	84	106	120
19-0	..	..	..	72	89	..	..	56	67	83	..	..	65	78	97	111
20-0	..	..	..	68	82	..	..	..	63	76	..	..	..	73	90	102
21-0	..	..	..	63	77	..	..	..	58	70	..	..	..	68	83	95
22-0	..	..	..	59	72	..	..	..	54	64	..	..	..	63	77	88
23-0	..	..	..	54	66	..	..	..	50	59	..	..	..	..	70	81
24-0	..	..	..	50	60	..	..	..	..	54	..	..	..	..	65	75
25-0	..	..	..	..	54	..	..	..	..	49	..	..	..	..	60	68
26-0	..	..	..	..	50	..	..	..	..	44	..	..	..	..	55	63
27-0	..	..	..	..	46	..	..	..	..	41	..	..	..	..	51	58
28-0	..	..	..	..	41	..	..	..	..	36	..	..	..	..	46	52
29-0	..	..	..	..	37	..	..	..	..	33	..	..	..	..	43	48
30-0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	44

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4-inch Slab

F	2-7					2-8					2-9						
	10'	12'	14'	18'	24'	10'	12'	14'	18'	22'	26'	30'	10'	12'	14'	18'	
D	Safe Uniformly Distributed Total Load in 100-pound Units																
Span Ft., In.																	
9-0	111	143	175	241	311	346	125	160	196	270	348	424	506	188	178	217	300
9-6	105	135	165	227	298	326	118	152	185	255	328	400	478	181	168	205	283
10-0	99	128	156	215	277	308	112	143	175	241	310	378	453	174	159	194	267
10-6	94	121	148	203	263	292	106	136	166	229	296	358	428	178	151	184	254
11-0	90	115	141	193	249	277	101	129	158	217	280	340	407	172	144	175	241
11-6	86	110	134	183	237	263	96	123	151	207	266	324	387	167	137	167	230
12-0	82	105	128	174	226	251	92	118	144	197	254	308	369	162	131	160	219
12-6	..	100	122	166	215	239	..	113	138	188	242	295	352	..	125	153	209
13-0	..	96	117	159	206	228	..	108	132	179	232	281	337	..	120	146	199
14-0	..	88	107	145	189	209	..	99	121	165	213	258	308	..	110	135	183
15-0	..	81	99	133	174	191	..	92	112	152	196	237	285	..	102	125	168
16-0	..	..	..	123	161	177	..	..	104	140	182	219	262	..	..	..	..
17-0	..	..	..	114	148	164	..	..	96	129	169	208	242	..	..	..	..
18-0	..	..	..	105	136	151	..	..	90	120	156	188	225	..	..	..	..
19-0	..	..	..	98	126	140	..	..	84	111	145	175	210	..	..	..	..
20-0	..	..	..	91	117	130	..	..	..	103	134	163	195	..	..	..	..
21-0	..	..	..	85	110	121	..	..	..	96	126	151	181	..	..	..	..
22-0	..	..	..	77	103	112	..	..	..	90	117	141	169	..	..	..	..
23-0	..	..	..	72	96	104	..	..	..	84	108	132	158	..	..	..	..
24-0	..	..	..	68	89	97	..	..	..	78	102	123	147	..	..	..	..
25-0	..	..	..	63	82	90	..	..	..	72	94	114	137	..	..	..	..
26-0	..	..	..	58	75	84	..	..	..	68	89	107	129	..	..	..	..
27-0	..	..	..	..	69	78	..	..	..	..	83	100	121	..	..	..	..
28-0	..	..	..	..	64	72	..	..	..	..	77	93	113	..	..	..	..
29-0	..	..	..	..	59	66	..	..	..	..	71	86	104	..	..	..	..
30-0	..	..	..	..	54	60	..	..	..	..	65	79	95	..	..	..	..



PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4-inch Slab

Span Ft., In.	2-9					2-10					2-11					2-12			
	22'	26'	30'	10'	12'	14'	18'	22'	26'	30'	10'	12'	14'	18'	22'	26'	30'	10'	12'
	Safe Uniformly Distributed Total Load in 100-pound Units																		
9-0	387	478	564	153	197	241	332	428	526	625	168	216	264	365	475	578	687	201	258
9-6	365	451	533	145	186	227	314	404	498	592	159	204	249	344	448	547	648	190	244
10-0	345	425	503	137	176	215	297	383	470	559	151	193	236	326	431	517	614	180	231
10-6	327	404	477	130	167	204	281	363	446	531	145	184	224	309	402	490	581	171	220
11-0	311	384	454	124	159	195	268	346	425	505	136	175	214	295	384	467	554	163	209
11-6	296	365	431	118	152	186	255	330	404	481	130	167	204	281	366	442	530	156	200
12-0	282	348	411	113	145	177	248	314	385	460	124	159	195	268	348	424	504	140	191
12-6	270	332	398	107	139	170	232	301	368	438	118	153	186	256	330	405	482	133	183
13-0	257	317	376	101	133	162	222	288	353	422	112	146	179	245	317	388	461	125	175
14-0	237	291	345	95	123	150	204	265	324	390	106	135	165	226	291	357	424	118	162
15-0	219	268	318	89	114	139	189	244	300	359	100	125	153	209	270	330	392	111	150
16-0	204	248	294	84	109	132	175	227	277	329	95	120	142	193	251	305	364	104	143
17-0	188	231	273	79	103	124	163	211	257	308	90	115	138	179	234	284	339	100	138
18-0	175	215	254	74	98	118	152	200	240	289	85	110	132	167	218	265	316	95	133
19-0	162	199	236	69	92	110	141	182	224	272	80	105	126	156	202	247	295	90	128
20-0	151	186	221	64	86	105	133	170	209	248	75	100	120	146	189	232	276	85	123
21-0	141	174	206	59	80	98	125	159	195	228	70	95	115	137	177	218	259	80	118
22-0	132	163	193	54	75	92	118	149	183	218	65	90	109	129	167	205	243	75	113
23-0	123	152	180	49	70	86	109	140	172	206	60	85	103	121	155	192	228	70	108
24-0	115	143	169	44	65	80	103	131	161	193	55	80	96	114	147	181	215	65	103
25-0	108	133	158	39	60	74	96	123	151	180	50	75	90	107	137	170	202	60	98
26-0	101	125	149	34	55	68	90	116	143	169	45	70	84	101	130	161	191	55	93
27-0	95	117	139	29	50	62	83	109	135	159	40	65	78	93	122	152	180	50	88
28-0	89	108	130	24	45	56	76	102	126	150	35	60	72	86	115	143	169	45	83
29-0	83	99	121	19	40	50	69	95	117	140	30	55	66	80	109	134	158	40	78
30-0	77	90	112	14	35	44	62	89	110	131	25	50	60	74	102	125	149	35	73

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4-inch Slab

F	2-12					2-13					2-14						
	14'	18'	22'	26'	30'	10'	12'	14'	18'	22'	26'	30'	10'	12'	14'	16'	20'
D	Safe Uniformly Distributed Total Load in 100-pound Units																
JSpan Ft., In.																	
9-0	815	436	562	690	820	218	280	343	474	612	751	893	231	303	371	444	569
9-6	298	419	532	653	775	207	265	324	447	579	711	845	218	287	351	420	538
10-0	282	390	504	618	734	196	252	307	424	548	673	800	207	272	332	398	509
10-6	268	371	479	586	696	186	239	292	402	521	639	761	197	259	315	378	484
11-0	256	354	456	557	657	177	228	278	384	495	608	734	187	246	301	360	460
11-6	244	338	435	532	635	169	218	266	366	472	580	691	179	235	288	344	439
12-0	233	323	414	507	603	162	208	254	350	451	553	659	171	225	275	329	419
12-6	223	309	396	486	578	150	199	243	335	432	530	630	161	216	263	315	401
13-0	214	296	380	466	554	141	191	233	320	414	508	604	151	207	252	302	384
14-0	197	273	350	429	510	131	176	215	296	382	468	556	141	191	233	279	355
15-0	183	252	325	397	472	124	164	200	275	355	433	515	131	178	217	259	329
16-0	171	233	302	369	439	116	156	186	255	331	403	479	121	162	202	242	306
17-0	159	217	281	344	409	108	144	174	238	308	377	447	111	149	189	226	285
18-0	150	202	263	322	383	100	133	163	223	289	353	419	101	137	177	212	267
19-0	140	190	245	301	358	92	123	153	208	270	330	393	92	127	167	199	251
20-0	128	178	230	283	336	84	114	144	197	253	310	369	84	119	158	188	237
21-0	116	166	215	267	316	76	104	134	185	239	292	349	76	111	149	178	223
22-0	104	157	204	252	308	68	96	126	175	225	276	328	68	101	139	169	210
23-0	92	148	192	237	281	60	88	118	164	213	260	300	60	91	129	158	198
24-0	80	140	182	223	265	52	80	110	155	202	246	292	52	83	121	150	188
25-0	68	131	171	210	250	44	72	102	146	189	232	276	44	75	113	142	178
26-0	56	125	162	199	237	36	64	94	139	179	219	263	36	67	105	134	169
27-0	44	119	154	188	225	28	56	86	130	170	210	250	28	60	97	126	160
28-0	32	113	145	178	213	20	48	78	121	161	199	237	20	53	90	119	151
29-0	20	107	137	168	201	12	40	70	112	152	188	224	12	46	83	112	143
30-0	8	101	129	159	189	4	32	62	104	144	177	211	4	39	76	105	136

## T-Girders and Special T-Beams with 4-inch Slab

F	2-14					2-15					2-16						
	24"	28"	30"	12"	14"	16"	20"	24"	28"	30"	12"	14"	16"	20"	24"	28"	30"
D																	
Span F <sub>L</sub> , In.	9-0	9-6	10-0	10-6	11-0	11-6	12-0	12-6	13-0	13-6	14-0	15-0	16-0	17-0	18-0	19-0	20-0
	798	888	966	929	401	480	685	798	961	1044	357	428	515	682	859	1033	1120
	698	840	915	311	379	454	601	755	909	960	388	405	488	645	813	977	1000
	661	796	866	295	360	430	569	715	861	896	321	384	463	611	771	926	1004
	628	757	825	281	342	409	541	679	819	896	305	365	440	580	733	880	954
	598	720	788	267	326	390	515	646	780	847	291	348	419	552	699	838	908
	571	688	750	256	311	372	492	617	744	812	278	333	400	528	664	800	868
	545	656	716	244	297	356	470	589	711	776	265	318	383	504	635	763	828
	522	628	683	234	285	341	450	562	680	740	254	305	367	483	609	732	794
	500	6-0	655	225	273	327	431	540	653	710	244	292	352	463	584	702	761
	461	555	605	207	253	302	398	498	602	654	230	270	325	428	536	647	703
	427	515	561	193	235	281	369	463	559	607	210	251	303	397	498	601	652
	398	479	521	.	219	263	343	431	520	565	.	234	282	370	465	560	607
	371	447	487	.	205	245	321	408	496	538	.	219	264	345	435	523	568
	349	419	456	.	192	230	301	378	456	495	.	206	248	325	408	491	533
	326	393	427	.	181	216	281	354	427	464	.	194	233	306	382	460	500
	307	369	402	.	.	204	265	334	402	437	.	.	.	288	361	434	471
	288	349	380	.	.	193	250	315	380	412	.	.	.	270	340	410	446
	273	329	358	.	.	183	236	298	361	390	.	.	.	256	322	388	423
	258	311	339	.	.	.	224	282	342	369	.	.	.	242	305	367	402
	244	294	321	.	.	.	212	267	323	350	.	.	.	229	289	348	382
	221	278	303	.	.	.	201	253	304	331	.	.	.	217	274	330	358
	210	265	290	.	.	.	191	240	289	317	.	.	.	207	261	316	342
	208	253	275	.	.	.	181	228	274	302	.	.	.	196	248	302	326
	199	240	261	.	.	.	172	216	260	287	.	.	.	187	235	287	311
	187	227	247	.	.	.	164	207	248	272	.	.	.	178	225	272	295
	178	214	233	.	.	.	.	196	236	257	.	.	.	178	214	257	279

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4-inch Slab

F	2-17					2-18					2-19					
	12'	14'	16'	18'	22'	26'	30'	14'	16'	18'	22'	26'	30'	14'	16'	18'
D	Safe Uniformly Distributed Total Load in 100-pound Units															
Span Ft., In.																
9-0	883	463	553	642	828	1016	1208	495	598	687	886	1087	1292	521	647	752
9-6	894	488	523	607	784	963	1144	469	561	650	889	1029	1224	512	612	711
10-0	844	415	496	576	743	911	1083	445	532	616	795	975	1159	468	580	674
10-6	830	395	471	548	706	868	1029	423	506	585	756	928	1101	444	552	641
11-0	816	377	450	521	673	825	980	403	482	558	719	884	1049	424	526	611
11-6	802	360	430	498	642	790	936	385	461	533	687	844	1002	405	502	584
12-0	888	844	411	475	614	756	894	368	441	509	656	806	958	388	480	558
12-6	873	390	394	455	588	721	857	353	422	488	629	772	918	372	460	535
13-0	293	316	378	437	564	692	822	339	405	468	609	741	881	357	441	518
14-0	245	298	349	403	521	640	759	313	375	432	567	685	814	329	408	474
15-0	227	272	325	375	485	598	705	292	349	402	525	636	755	307	379	441
16-0	.	254	303	349	452	552	657	272	326	374	485	592	704	287	353	411
17-0	.	238	284	326	422	519	614	255	305	350	453	558	659	270	331	384
18-0	.	224	267	306	396	485	576	240	287	329	425	520	619	253	311	361
19-0	.	210	251	287	371	457	541	225	270	319	409	489	581	.	292	339
20-0	.	.	237	271	350	429	510	.	255	291	376	461	548	.	276	320
21-0	.	.	224	256	331	408	486	.	242	275	356	439	522	.	261	303
22-0	.	.	213	242	314	388	462	.	230	261	337	417	496	.	257	297
23-0	.	.	.	229	297	368	438	.	.	247	319	395	470	.	272	312
24-0	.	.	.	218	282	348	414	.	.	235	303	374	445	.	259	299
25-0	.	.	.	207	267	328	390	.	.	223	288	353	420	.	246	286
26-0	.	.	.	197	254	313	373	.	.	212	274	338	408	.	240	280
27-0	.	.	.	.	243	309	356	.	.	.	322	393	464	.	240	280
28-0	.	.	.	.	232	285	340	.	.	.	350	408	465	.	240	280
29-0	.	.	.	.	221	271	323	.	.	.	328	393	448	.	240	280
30-0	.	.	.	.	209	257	306	.	.	.	297	378	431	.	240	280

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4-inch Slab

F	2-19					2-20					2-21							
	20'	24'	28'	32'	36'	16'	18'	20'	24'	28'	32'	36'	16'	18'	20'	24'	28'	32'
D	Safe Uniformly Distributed Total Load in 100-pound Units																	
Span Ft., In.																		
9-0	841	1094	1384	1562	680	801	923	1165	1411	1603	722	850	980	1296	1501	1766		
9-6	796	1036	1256	1479	644	768	874	1102	1336	1574	683	799	927	1172	1419	1671		
10-0	754	982	1188	1401	610	719	829	1045	1267	1498	648	763	879	1109	1347	1585		
10-6	717	934	1130	1331	580	683	788	998	1205	1419	616	725	836	1060	1296	1536		
11-0	683	890	1077	1269	553	651	751	946	1148	1356	587	691	797	1010	1222	1436		
11-6	653	850	1028	1212	528	622	717	904	1097	1292	561	661	762	960	1167	1373		
12-0	624	812	982	1159	505	595	685	865	1048	1235	536	631	728	920	1116	1312		
12-6	598	778	942	1111	484	570	657	829	1004	1184	514	605	698	880	1069	1258		
13-0	578	747	903	1076	464	547	630	796	966	1136	493	581	670	844	1028	1208		
14-0	530	690	834	986	420	506	583	736	890	1050	456	537	619	781	949	1117		
15-0	492	642	776	916	399	470	542	685	831	976	424	500	576	726	884	1038		
16-0	459	598	724	854	372	438	505	638	777	911	396	466	537	678	824	969		
17-0	429	559	677	800	348	410	473	598	723	853	370	436	503	635	771	908		
18-0	404	526	637	752	327	386	445	561	680	803	348	410	473	597	726	854		
19-0	379	495	598	706	308	363	418	528	639	755	328	386	445	562	683	803		
20-0	358	467	565	667	291	343	395	499	604	713	310	365	421	531	645	759		
21-0	338	443	536	631	275	324	374	472	573	674	293	345	398	508	611	720		
22-0	321	419	507	599	261	308	354	447	543	641	277	328	378	477	580	682		
23-0	304	399	481	568	248	292	337	424	518	608	261	311	359	453	551	648		
24-0	289	379	457	541	236	278	320	404	492	578	246	296	341	430	525	617		
25-0	275	359	435	514	224	264	305	385	466	550	232	282	325	410	499	587		
26-0	262	344	416	493	213	251	291	367	447	528	219	268	310	393	479	564		
27-0	249	329	396	472	203	237	277	350	426	506	206	255	296	375	459	541		
28-0	238	314	379	450	194	225	265	334	409	483	194	243	283	357	439	517		
29-0	228	299	362	429	186	214	250	320	390	461	183	232	272	342	418	493		
30-0	218	285	345	407	178	206	240	306	371	438	173	222	262	332	398	469		

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4-inch Slab

F	2-22					2-23					2-24					
	16'	18'	20'	24'	28'	32'	18'	20'	22'	24'	28'	32'	18'	20'	22'	24'
D																
Span Ft., In.																
9-0	737	902	1040	1176	1312	1589	1878	954	1100	1245	1388	1681	1981	954	1104	1317
9-6	680	854	984	1118	1242	1504	1774	908	1041	1178	1314	1592	1874	908	1101	1247
10-0	634	810	933	1056	1178	1427	1682	857	987	1118	1246	1509	1779	857	1045	1183
10-6	632	770	887	1004	1120	1356	1600	814	939	1063	1185	1435	1690	814	993	1124
11-0	592	784	846	957	1068	1293	1594	776	895	1018	1129	1368	1612	776	947	1072
11-6	567	701	808	914	1020	1237	1458	742	855	968	1079	1308	1540	742	906	1025
12-0	542	670	773	874	975	1182	1368	709	818	926	1032	1250	1473	709	866	980
12-6	520	643	741	838	935	1133	1335	680	784	888	980	1199	1413	680	830	940
13-0	498	617	711	804	897	1087	1281	653	752	852	949	1152	1355	653	797	902
14-0	462	570	658	744	830	1006	1190	604	696	788	878	1066	1254	604	737	835
15-0	429	531	612	692	773	935	1103	562	648	733	818	992	1168	562	686	777
16-0	401	495	571	646	721	873	1020	524	605	685	763	925	1090	524	640	725
17-0	376	464	534	605	675	818	964	491	566	641	715	866	1021	491	600	679
18-0	354	436	503	569	635	769	907	462	533	604	673	816	961	462	565	640
19-0	334	410	473	535	598	724	853	435	502	568	633	768	905	435	532	602
20-0	316	388	448	506	565	685	807	412	474	537	599	726	856	412	503	570
21-0	300	367	423	479	535	647	764	390	449	509	567	691	810	390	477	540
22-0	285	349	402	455	508	614	730	370	427	483	539	656	770	370	453	513
23-0	270	331	382	432	482	584	689	352	406	459	512	621	732	352	431	488
24-0	255	315	364	412	459	556	657	335	389	437	488	592	697	335	410	465
25-0	240	300	346	392	438	530	620	319	368	417	465	563	665	319	391	443
26-0	225	285	331	375	421	508	601	300	352	398	447	539	636	300	374	423
27-0	210	270	316	357	404	487	576	285	335	380	429	515	607	285	357	404
28-0	195	255	302	342	386	466	551	270	321	364	410	492	580	270	342	387
29-0	180	240	287	327	368	445	526	255	309	349	391	472	557	255	327	371
30-0	165	225	271	311	350	424	501	240	294	334	372	452	533	240	309	355

Safe Uniformly Distributed Total Load in 100-pound Units

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4-inch Slab

F	2-24					2-25					3-19					3-20		
	26"	28"	32"	20"	22"	24"	26"	28"	32"	24"	26"	28"	32"	26"	28"	32"		
	Safe Uniformly Distributed Total Load in 100-pound Units																	
D	Span Ft., In.																	
9-0	1030	1778	2006	1104	1389	1547	1709	1875	2210	1588	1815	1990	2347	1811	2121	2482		
9-6	1535	1683	1983	1101	1315	1464	1618	1780	2091	1503	1718	1884	2292	1714	2008	2350		
10-0	1455	1597	1882	1045	1247	1389	1534	1684	1985	1425	1630	1787	2107	1626	1906	2229		
10-6	1384	1518	1789	993	1186	1321	1459	1600	1893	1354	1549	1699	2008	1547	1811	2119		
11-0	1320	1448	1707	947	1131	1260	1391	1527	1800	1291	1477	1620	1910	1475	1727	2021		
11-6	1262	1384	1632	905	1081	1204	1330	1454	1720	1234	1412	1548	1831	1409	1650	1931		
12-0	1206	1323	1560	866	1034	1151	1272	1407	1645	1179	1349	1480	1752	1347	1578	1847		
12-6	1156	1269	1496	830	991	1104	1220	1339	1578	1139	1294	1419	1673	1291	1513	1770		
13-0	1110	1218	1435	797	952	1060	1171	1294	1513	1085	1242	1362	1613	1239	1452	1699		
14-0	1027	1127	1329	737	880	981	1084	1206	1400	1004	1149	1260	1493	1147	1344	1573		
15-0	955	1049	1237	686	820	918	1009	1120	1305	934	1069	1172	1382	1067	1250	1463		
16-0	892	979	1155	640	766	853	942	1034	1219	872	997	1094	1290	995	1167	1366		
17-0	836	918	1082	600	717	799	883	969	1142	817	934	1024	1208	932	1094	1279		
18-0	787	865	1018	565	676	752	831	912	1076	768	879	964	1137	877	1029	1204		
19-0	741	814	958	532	636	709	783	862	1014	722	827	907	1070	826	969	1133		
20-0	701	770	907	503	602	671	741	813	959	683	782	858	1012	780	916	1072		
21-0	663	729	868	477	570	635	702	777	908	646	740	812	961	738	868	1015		
22-0	630	693	816	453	542	604	668	741	864	613	703	771	910	702	825	964		
23-0	599	659	777	431	516	574	635	705	822	583	668	733	868	667	784	916		
24-0	571	628	741	410	492	548	605	669	784	555	636	698	826	635	747	873		
25-0	545	598	706	391	469	522	577	633	747	520	606	664	784	604	711	833		
26-0	522	572	678	374	448	499	552	608	715	505	579	635	749	578	680	795		
27-0	497	546	650	357	428	477	527	583	682	481	552	605	715	551	649	759		
28-0	476	525	622	342	410	457	505	558	655	461	527	579	686	527	621	737		
29-0	457	503	595	324	394	438	484	534	629	441	506	555	657	505	597	697		
30-0	438	481	568	307	377	420	464	510	602	422	484	531	628	483	570	668		

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4½-inch Slab

F	2-4				2-5				2-6				2-7	
	8'	10'	12'	14'	16'	18'	20'	12'	14'	16'	18'	20'	12'	14'
D	Safe Uniformly Distributed Total Load in 100-pound Units													
Span Ft., In.														
9-0	72	95	118	142	174	198	213	128	156	184	213	243	143	175
9-6	68	90	112	134	165	188	201	121	148	174	201	230	135	165
10-0	64	85	105	126	156	177	189	114	140	165	189	216	128	157
10-6	61	80	100	120	148	168	179	108	132	156	179	205	122	148
11-0	..	77	95	114	140	159	169	103	126	148	169	194	116	141
11-6	..	73	91	108	133	151	161	98	120	141	161	184	110	135
12-0	..	69	86	103	127	144	153	94	114	135	153	176	105	128
12-6	..	66	83	99	121	136	146	89	109	129	146	167	101	123
13-0	..	63	79	94	116	130	140	86	104	123	140	160	96	117
14-0	..	58	72	86	106	119	127	79	96	113	128	146	88	108
15-0	..	..	67	80	97	108	116	72	88	104	118	133	82	100
16-0	..	..	62	74	90	99	106	..	82	96	108	123	..	92
17-0	..	..	57	68	84	92	98	..	76	89	100	113	..	86
18-0	..	..	..	63	78	84	91	..	70	83	92	105	..	80
19-0	..	..	..	59	73	78	83	..	66	77	85	97	..	75
20-0	..	..	..	55	68	72	76	..	..	72	78	90	..	..
21-0	..	..	..	..	64	65	71	..	..	67	72	84	..	..
22-0	..	..	..	..	60	61	66	..	..	63	66	78	..	..
23-0	..	..	..	..	55	57	61	..	..	..	61	72	..	..
24-0	..	..	..	..	51	53	55	..	..	..	57	66	..	..
25-0	..	..	..	..	..	48	50	..	..	..	53	60	..	..
26-0	..	..	..	..	..	44	46	..	..	..	49	56	..	..
27-0	..	..	..	..	..	40	42	..	..	..	..	52	..	..
28-0	..	..	..	..	..	..	38	..	..	..	..	47	..	..
29-0	..	..	..	..	..	..	34	..	..	..	..	43	..	..
30-0	..	..	..	..	..	..	30	..	..	..	..	..	..	..



PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4½-inch Slab

Span Ft., In.	2-7					2-8					2-9					2-10				
	16'	20'	22'	12'	14'	16'	20'	24'	12'	14'	16'	20'	24'	12'	14'	16'	20'	24'		
9-0	207	273	308	161	196	232	306	385	178	217	257	339	427	197	241	284	377	474		
9-6	195	257	291	152	185	219	289	364	168	205	242	321	404	186	228	269	357	449		
10-0	185	243	275	144	176	207	274	344	159	195	230	303	382	177	216	255	337	424		
10-6	175	230	260	136	167	197	259	327	151	185	218	288	363	168	205	242	320	403		
11-0	167	219	246	130	158	187	246	310	144	176	207	273	344	160	195	230	304	382		
11-6	159	208	235	124	151	178	235	297	137	168	198	261	328	152	186	220	290	365		
12-0	151	198	223	118	144	170	223	285	131	160	189	249	318	145	178	210	277	349		
12-6	145	189	213	113	138	163	213	273	125	153	181	237	308	139	170	201	264	332		
13-0	138	181	204	108	132	156	204	262	120	147	173	227	287	133	163	192	253	318		
14-0	127	165	187	100	121	143	187	239	111	135	159	209	265	123	150	177	232	292		
15-0	118	151	172	92	112	132	173	216	102	125	147	192	241	114	139	164	214	269		
16-0	109	140	158	85	104	123	159	200	95	116	137	177	223	106	129	152	198	250		
17-0	101	129	146	78	97	114	147	186	88	108	127	165	207	99	120	142	185	232		
18-0	94	120	135	72	90	107	138	172	82	101	119	152	193	92	113	133	172	216		
19-0	88	111	125	67	85	100	127	160	77	95	111	142	179	86	106	124	161	202		
20-0	82	103	116	62	79	93	118	149	72	89	105	133	167	81	101	117	150	188		
21-0	77	96	108	57	74	87	111	139	67	84	98	124	157	76	95	110	141	178		
22-0	72	89	101	52	69	82	104	129	62	79	92	116	147	71	90	104	132	167		
23-0	67	83	94	47	64	77	97	122	57	74	87	109	138	66	85	99	124	157		
24-0	62	77	87	42	59	71	90	115	52	69	81	102	129	61	80	94	116	147		
25-0	57	71	80	37	54	66	83	107	47	64	76	95	120	56	75	89	109	137		
26-0	52	66	75	32	49	61	78	100	42	59	70	89	113	51	70	84	102	129		
27-0	47	61	70	27	44	56	73	93	37	54	65	84	106	46	65	79	96	121		
28-0	42	56	64	22	39	50	68	86	32	49	60	78	99	41	60	74	90	114		
29-0	37	50	58	17	34	45	63	79	27	44	55	73	92	36	55	69	84	107		
30-0	32	45	54	12	29	40	58	73	22	39	50	68	86	31	50	64	79	100		

Safe Uniformly Distributed Total Load in 100-pound Units

T-Girders and Special T-Beams with 4½-inch Slab

F	2-11						2-12						2-13						2-14					
	12	14	16	20	24		12	14	16	20	24		12	14	16	20	24		12	14	16	20	24	
D	Safe Uniformly Distributed Total Load in 100-pound Units																							
Span Ft. In.																								
9-0	216	264	312	413	520	258	315	372	434	494	622	281	343	405	538	676	304	371	438	598	754	924	288	340
9-6	204	250	295	390	491	244	288	352	468	589	741	265	325	383	510	641	287	351	414	550	696	855	275	325
10-0	194	237	279	370	465	231	283	333	442	557	706	252	308	363	482	606	272	333	393	516	646	807	264	311
10-6	184	225	265	351	447	220	269	317	421	530	677	239	294	345	458	577	259	316	373	488	612	777	253	298
11-0	175	214	253	333	430	209	256	302	400	508	655	228	279	329	435	548	247	301	356	463	589	757	247	294
11-6	167	204	241	318	408	200	244	288	383	481	628	218	266	314	416	524	236	288	340	448	576	746	236	288
12-0	160	195	230	304	386	191	233	275	365	459	606	208	254	300	398	500	225	275	325	435	564	736	225	275
12-6	153	187	220	290	365	183	224	264	348	438	584	199	244	288	380	478	216	264	311	423	552	724	216	264
13-0	147	179	211	278	349	176	214	253	334	420	564	191	234	276	364	459	207	253	298	411	540	712	207	253
14-0	135	165	195	256	321	162	198	238	308	388	528	177	216	255	336	423	191	234	276	390	519	692	191	234
15-0	125	153	181	236	297	151	184	217	284	358	488	164	200	237	311	391	178	217	255	375	504	677	178	217
16-0	117	142	168	219	276	141	171	202	264	333	454	155	187	220	289	364	155	187	220	340	469	642	155	187
17-0	108	133	157	204	257	130	160	188	246	311	428	145	175	206	270	340	145	175	206	318	447	620	145	175
18-0	100	124	147	190	239	121	150	177	230	290	404	135	164	194	252	318	135	164	194	298	427	600	135	164
19-0	93	117	138	182	223	113	141	166	216	272	382	125	154	182	236	298	125	154	182	252	371	544	125	154
20-0	87	110	129	176	209	106	133	156	203	255	360	116	145	171	222	280	116	145	171	216	330	504	116	145
21-0	81	103	122	165	198	100	125	148	191	242	344	108	137	162	210	266	108	137	162	198	300	470	108	137
22-0	76	98	115	154	185	95	118	140	180	229	328	102	130	153	198	252	102	130	153	182	250	420	102	130
23-0	71	92	109	143	174	90	111	132	170	216	312	96	125	148	189	238	96	125	148	178	220	390	96	125
24-0	66	87	104	132	163	85	104	125	161	203	296	90	120	143	178	224	90	120	143	178	224	350	90	120
25-0	61	82	99	122	153	80	99	122	151	190	280	85	115	138	167	210	85	115	138	167	210	310	85	115
26-0	57	78	95	115	145	76	94	118	143	180	268	80	110	133	158	200	80	110	133	158	200	270	80	110
27-0	53	74	91	108	137	72	90	115	135	171	258	76	106	129	152	190	76	106	129	152	190	240	76	106
28-0	49	70	87	102	129	68	88	112	128	162	248	72	102	125	142	180	72	102	125	142	180	210	72	102
29-0	45	66	83	96	121	64	84	109	121	153	238	68	98	121	134	170	68	98	121	134	170	190	68	98
30-0	41	62	79	94	114	60	80	104	114	144	228	64	94	117	134	161	64	94	117	134	161	170	64	94

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4½-inch Slab

F D	2-14				2-15				2-16				2-17				
	20'	24'	12'	14'	16'	20'	24'	12'	14'	16'	20'	24'	12'	14'	16'	20'	24'
Span Ft., In.	Safe Uniformly Distributed Total Load in 100-pound Units																
9-0	564	782	829	401	474	629	791	353	429	509	676	851	395	468	546	727	915
9-6	524	694	312	380	448	596	750	334	406	482	641	807	374	488	517	687	868
10-0	505	656	296	360	425	564	709	317	385	457	606	763	355	416	490	652	821
10-6	481	624	281	342	404	537	675	301	366	434	577	726	337	395	466	619	782
11-0	457	593	268	325	385	510	642	287	349	414	549	690	322	377	444	590	743
11-6	437	567	256	312	368	488	615	274	333	396	525	661	307	360	424	563	712
12-0	418	542	245	298	351	466	588	262	318	378	502	632	294	344	406	538	681
12-6	399	517	234	285	337	445	561	251	305	362	479	603	282	330	389	516	650
13-0	383	497	225	274	323	427	538	241	293	348	460	584	270	317	373	495	624
14-0	353	460	208	253	309	395	497	223	271	321	425	536	250	293	345	456	577
15-0	327	424	193	235	278	365	460	207	252	299	394	496	233	278	321	423	534
16-0	304	395	179	219	259	340	428	189	235	279	367	462	216	254	300	395	498
17-0	284	369	166	205	242	318	401	173	220	261	344	431	200	238	280	370	467
18-0	266	345	153	193	228	298	375	158	207	245	322	405	184	224	264	347	437
19-0	250	324	141	182	214	280	353	144	195	231	303	381	170	211	248	326	411
20-0	234	304	129	166	202	263	331	130	181	218	285	358	156	200	235	307	387
21-0	221	287	118	154	191	249	313	117	168	206	270	339	142	188	222	292	365
22-0	208	271	107	143	181	235	296	104	155	196	254	320	128	176	211	277	346
23-0	198	257	97	133	171	223	281	91	146	186	241	304	114	164	200	263	330
24-0	187	243	87	125	161	211	266	79	137	177	238	288	101	152	190	247	312
25-0	176	229	78	117	151	199	251	67	128	168	216	272	88	144	184	235	296
26-0	167	218	69	109	143	190	239	56	120	161	206	260	76	138	180	224	283
27-0	159	207	61	101	135	181	228	45	112	154	196	246	65	130	174	213	270
28-0	151	197	53	93	127	172	217	34	104	147	186	235	54	122	168	203	257
29-0	143	187	45	85	119	163	206	23	96	139	177	224	43	114	162	193	244
30-0	135	177	37	77	111	155	195	12	88	132	168	213	32	106	154	185	232

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4½-inch Slab

F	2-18				2-19				2-20				2-21					
	12'	14'	16'	20'	24'	12'	14'	16'	18'	22'	26'	14'	16'	14'	16'			
D	Safe Uniformly Distributed Total Load in 100-pound Units																	
Span Ft., In.																		
9-0	405	495	586	773	979	405	538	641	747	944	1199	573	683	796	1033	1278	588	724
9-6	383	469	555	733	928	383	509	607	707	896	1188	543	646	753	980	1213	558	686
10-0	363	445	527	694	878	363	488	576	670	847	1076	515	618	714	927	1147	538	651
10-6	345	423	501	661	837	345	459	547	637	812	1029	490	583	679	881	1099	506	619
11-0	329	403	477	628	796	329	438	522	607	767	983	467	556	647	841	1051	484	590
11-6	315	385	456	601	763	315	419	499	580	742	937	446	531	618	803	1004	463	564
12-0	301	369	436	575	729	301	401	477	554	707	891	427	508	591	765	957	441	539
12-6	289	353	418	549	696	289	384	457	531	671	853	411	487	567	736	910	420	517
13-0	277	339	401	527	669	277	369	439	510	649	824	393	468	544	708	880	404	497
14-0	256	314	371	488	619	256	341	406	471	595	768	364	433	503	655	820	373	460
15-0	239	292	345	452	573	239	318	378	438	555	712	339	403	467	607	760	351	428
16-0	227	278	322	422	534	227	297	353	408	516	656	316	376	436	566	699	329	400
17-0	215	265	302	396	501	215	279	331	382	485	620	296	353	408	530	661	307	375
18-0	204	250	284	370	469	204	262	313	359	454	584	279	332	384	498	623	286	353
19-0	193	236	268	348	442	193	253	303	338	429	548	261	313	361	469	585	266	333
20-0	183	223	253	328	416	183	243	279	319	403	512	246	296	341	443	548	246	315
21-0	174	212	239	312	396	174	231	265	301	382	488	231	281	322	422	523	226	298
22-0	166	202	228	296	376	166	221	256	286	361	464	216	266	306	402	498	206	280
23-0	158	192	218	281	357	158	211	246	271	344	440	201	251	291	382	473	186	262
24-0	151	182	206	266	338	151	201	236	258	327	417	186	236	276	362	448	166	244
25-0	144	173	195	251	319	144	191	226	245	309	394	171	221	263	342	423	146	226
26-0	137	164	184	239	306	137	181	216	235	295	377	156	206	248	328	405	126	208
27-0	131	155	174	229	291	131	171	206	224	281	361	141	191	233	314	387	106	190
28-0	125	148	166	217	277	125	161	196	214	269	345	126	176	218	300	370	86	172
29-0	119	141	158	209	263	119	151	186	204	257	329	111	161	203	286	353	66	154
30-0	114	134	150	201	251	114	141	176	194	245	313	106	156	198	272	339	46	136

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4½-inch Slab

Span Ft., In.	2-21					2-22					2-23					2-24							
	18'	20'	24'	28'	16'	18'	20'	24'	28'	16'	18'	20'	24'	28'	16'	18'	20'	24'	28'	16'	18'	20'	
F	845	969	1224	1489	768	896	1029	1300	1576	813	948	1088	1375	1667	832	1002	1151						
D	799	918	1163	1413	728	848	974	1234	1495	770	897	1030	1304	1582	832	1002	1151						
	758	870	1099	1386	690	804	924	1167	1415	730	851	977	1234	1497	748	900	1034						
	721	827	1053	1281	657	765	878	1118	1354	694	809	929	1183	1435	713	856	983						
	687	789	1007	1226	626	729	837	1069	1283	662	771	886	1132	1373	678	816	937						
	657	754	962	1171	599	697	800	1020	1230	633	737	846	1081	1312	650	780	896						
	628	720	917	1116	573	666	765	971	1177	606	705	809	1030	1251	622	746	856						
	602	691	872	1061	549	639	733	922	1123	581	676	776	980	1189	595	715	821						
	577	663	843	1026	527	613	704	892	1094	558	649	745	942	1147	574	687	788						
	534	613	785	956	488	567	651	832	1036	517	600	689	873	1064	533	635	729						
	497	570	728	886	455	528	606	772	928	481	559	641	810	982	493	591	679						
	463	532	672	817	425	492	565	714	867	450	521	599	756	924	461	552	634						
	434	498	633	772	398	461	529	674	815	422	488	561	714	866	433	517	594						
	408	468	597	728	375	434	498	634	763	397	460	528	674	809	407	487	559						
	384	441	561	684	354	408	469	594	721	375	433	497	634	764	381	459	527						
	363	417	526	640	335	386	443	554	679	355	409	470	594	730	357	434	498						
	343	394	502	611	317	365	420	526	648	336	388	445	567	687	345	411	472						
	326	374	478	582	297	347	399	508	617	318	368	423	540	655	326	391	449						
	310	355	454	553	278	330	379	483	587	298	350	402	513	623	308	372	427						
	295	338	430	524	260	314	361	460	557	280	333	383	486	591	290	354	406						
	281	322	407	495	243	299	343	426	527	263	318	365	461	559	273	337	387						
	266	308	380	475	228	284	328	410	506	248	303	349	442	537	258	321	371						
	250	293	363	455	213	269	313	394	485	233	288	333	423	515	243	306	354						
	234	280	346	438	198	254	299	378	464	218	273	319	405	493	228	291	339						
	219	265	330	415	183	239	284	362	443	203	258	303	387	471	213	276	324						
	204	250	324	395	168	224	269	347	422	188	243	288	369	449	203	266	314						

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4½-inch Slab

F	2-24				2-25				3-19				3-20				
	22'	26'	30'	18'	20'	22'	26'	30'	18'	20'	22'	24'	26'	30'	20'	22'	24'
D	Safe Uniformly Distributed Total Load in 100-pound Units																
Span Ft., In.	Safe Uniformly Distributed Total Load in 100-pound Units																
9-0	1302	1610	1920	1057	1218	1373	1698	2024	1090	1280	1459	1629	1803	2150	1357	1553	1784
9-6	1292	1598	1822	1041	1149	1300	1611	1921	1074	1264	1443	1613	1788	2040	1341	1537	1642
10-0	1169	1446	1724	949	1090	1233	1525	1818	978	1158	1310	1463	1611	1980	1219	1395	1558
10-6	1112	1386	1653	903	1036	1172	1432	1733	937	1100	1245	1390	1552	1850	1169	1326	1481
11-0	1060	1326	1583	861	988	1118	1339	1649	897	1049	1187	1326	1486	1771	1119	1264	1412
11-6	1013	1267	1513	823	944	1069	1305	1581	857	1003	1134	1267	1420	1692	1069	1208	1350
12-0	969	1208	1443	787	903	1022	1273	1513	817	959	1084	1211	1354	1613	1019	1155	1290
12-6	929	1149	1370	755	866	980	1212	1445	777	919	1040	1161	1296	1533	968	1108	1237
13-0	892	1109	1322	724	831	941	1173	1393	752	882	998	1114	1244	1482	937	1063	1187
14-0	825	1023	1228	671	769	870	1095	1290	702	816	923	1031	1160	1382	875	984	1099
15-0	768	949	1133	624	716	812	1017	1198	650	759	859	959	1076	1282	813	916	1023
16-0	717	887	1067	583	669	757	936	1117	598	708	801	895	991	1182	747	855	954
17-0	672	834	1001	546	627	709	888	1046	560	660	751	838	938	1119	707	801	894
18-0	633	782	933	515	590	668	840	986	534	624	706	789	884	1057	667	754	842
19-0	596	739	883	485	556	629	792	932	502	588	665	742	830	995	627	709	792
20-0	564	697	832	459	526	596	738	879	469	556	629	702	777	927	586	671	750
21-0	534	666	795	434	499	564	706	840	443	526	596	664	742	886	560	635	710
22-0	508	635	758	413	474	537	674	801	427	500	565	631	707	845	534	604	675
23-0	482	604	721	393	451	510	641	762	406	475	537	600	672	804	508	574	641
24-0	460	573	684	375	430	486	612	723	385	452	511	571	637	763	482	547	611
25-0	438	542	647	357	410	464	574	684	363	430	487	544	602	719	455	521	582
26-0	419	520	622	344	392	444	552	657	341	405	465	520	578	691	440	498	556
27-0	400	499	597	334	374	424	530	630	324	389	444	496	554	663	426	473	531
28-0	383	478	572	324	359	406	508	604	307	375	425	475	530	635	412	455	508
29-0	368	457	547	314	340	389	482	578	291	357	407	455	506	607	381	426	488
30-0	352	436	520	304	323	373	462	552	274	339	388	435	482	575	361	408	467

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 4½-inch Slab

F	3-20					3-21					3-22					3-23					3-24					
	26"	28"	30"	22"	24"	26"	28"	32"	24"	26"	28"	30"	32"	24"	26"	28"	30"	32"	28"	30"	32"	30"	32"			
D	Safe Uniformly Distributed Total Load in 100-pound Units																									
Span Ft., In.																										
9-0	1920	2108	2290	1091	1841	2037	2232	2629	1907	2168	2308	2579	2789	2470	2727	2948	3086	2948	2727	2582	2432	2279	2124	2008	1886	
9-6	1818	1992	2173	1548	1743	1939	2113	2495	1810	2048	2242	2442	2647	2339	2582	2792	2875	2647	2399	2152	1905	1658	1411	1164	917	670
10-0	1725	1889	2056	1465	1654	1850	2005	2361	1713	1943	2127	2317	2505	2219	2450	2649	2738	2505	2219	1972	1715	1458	1201	944	687	430
10-6	1640	1796	1972	1396	1572	1740	1905	2264	1633	1847	2022	2203	2388	2110	2329	2519	2594	2329	2010	1763	1496	1239	982	725	468	211
11-0	1563	1712	1888	1328	1499	1659	1818	2167	1553	1762	1923	2101	2272	2012	2222	2402	2474	2222	2012	1763	1496	1239	982	725	468	211
11-6	1494	1636	1804	1278	1433	1586	1737	2070	1490	1684	1844	2008	2178	1924	2124	2297	2365	2124	1924	1684	1427	1170	913	656	399	142
12-0	1429	1566	1720	1218	1370	1516	1661	1973	1427	1610	1768	1920	2085	1889	2031	2196	2262	2031	1889	1642	1384	1126	869	612	355	97
12-6	1370	1500	1634	1164	1314	1454	1593	1876	1362	1544	1691	1842	1992	1764	1948	2106	2170	1948	1764	1544	1321	1094	877	660	443	226
13-0	1315	1440	1581	1123	1261	1395	1529	1807	1317	1482	1623	1768	1927	1694	1870	2022	2088	1870	1694	1482	1257	1030	813	596	379	160
14-0	1217	1386	1475	1088	1167	1292	1415	1667	1228	1372	1502	1637	1798	1568	1732	1872	1920	1732	1568	1372	1153	936	719	502	283	13
15-0	1182	1240	1309	964	1087	1202	1317	1559	1140	1278	1399	1524	1670	1460	1613	1744	1796	1613	1460	1278	1059	842	625	408	191	64
16-0	1057	1158	1260	898	1014	1123	1230	1449	1052	1193	1306	1423	1539	1364	1506	1629	1678	1506	1364	1193	976	759	542	325	154	6
17-0	990	1084	1154	842	951	1052	1153	1373	1001	1118	1231	1334	1449	1278	1412	1527	1573	1412	1278	1118	927	710	493	276	107	1
18-0	932	1020	1128	793	895	991	1085	1297	951	1053	1153	1255	1359	1204	1330	1438	1482	1330	1204	1053	851	634	417	227	58	0
19-0	878	961	1062	749	843	933	1022	1221	901	992	1086	1183	1285	1135	1253	1355	1397	1253	1135	992	790	573	356	168	3	0
20-0	830	909	990	706	798	883	967	1139	827	939	1028	1121	1211	1074	1187	1283	1323	1187	1074	939	742	526	307	129	0	0
21-0	786	861	946	671	755	836	916	1091	790	890	974	1061	1157	1018	1125	1216	1254	1125	1018	890	697	478	268	100	0	0
22-0	747	820	902	636	718	795	871	1043	754	846	927	1010	1104	968	1070	1157	1193	1070	968	846	647	429	229	71	0	0
23-0	710	778	858	607	683	756	828	995	718	805	881	960	1051	921	1018	1101	1135	1018	921	805	618	390	190	52	0	0
24-0	677	742	814	578	651	730	789	947	682	767	840	915	998	870	971	1050	1083	971	870	767	647	429	229	71	0	0
25-0	645	706	769	549	620	687	752	897	644	732	801	873	944	838	926	1002	1033	926	838	732	618	390	190	52	0	0
26-0	616	675	739	527	593	657	720	861	638	700	767	835	907	802	887	959	989	887	802	700	618	390	190	52	0	0
27-0	588	646	709	505	566	627	687	825	633	669	732	798	870	766	847	916	945	847	766	669	588	469	349	151	0	0
28-0	568	617	679	484	543	601	658	789	628	641	702	765	834	735	812	878	907	812	735	641	568	449	329	131	0	0
29-0	540	591	649	463	521	576	632	753	628	615	674	734	798	705	780	843	871	780	705	615	540	429	309	111	0	0
30-0	517	566	617	442	499	552	605	714	618	590	646	703	762	676	748	809	835	748	676	605	517	409	289	91	0	0

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5-inch Slab

F	2-4					2-5					2-6							
	8'	10'	12'	14'	16'	18'	10'	12'	14'	16'	18'	20'	10'	12'	14'	16'	18'	20'
Span Ft., In.	Safe Uniformly Distributed Total Load in 100-pound Units																	
9-0	73	95	119	142	174	198	88	113	188	162	186	212	100	128	156	185	212	241
9-6	68	90	112	134	164	187	84	106	180	153	174	195	95	121	148	174	200	228
10-0	64	85	106	127	155	176	79	101	133	145	165	188	90	115	140	165	188	215
10-6	61	81	100	120	147	168	74	95	116	137	156	180	85	109	133	157	178	204
11-0	..	77	96	114	140	160	70	91	111	130	148	171	81	108	132	149	169	193
11-6	..	74	91	109	133	151	67	86	105	124	140	162	77	99	120	142	161	184
12-0	..	70	87	104	127	143	64	82	100	118	133	153	73	94	115	135	153	175
12-6	..	67	83	99	121	137	..	79	96	113	127	146	..	90	109	129	146	167
13-0	..	65	79	95	116	131	..	75	92	108	121	139	..	86	105	123	139	159
14-0	..	59	78	97	116	131	..	69	84	99	111	126	..	79	96	113	128	146
15-0	..	..	..	80	98	108	..	64	77	91	101	117	..	73	89	105	117	133
16-0	..	..	..	74	91	100	..	..	72	84	98	108	..	..	82	97	108	118
17-0	..	..	..	69	84	92	..	..	66	78	85	99	..	..	76	90	99	108
18-0	..	..	..	..	78	84	..	..	62	72	79	94	..	..	71	84	92	100
19-0	..	..	..	..	73	78	..	..	57	67	71	82	..	..	66	78	85	96
20-0	..	..	..	..	68	72	..	..	..	63	65	74	..	..	..	73	77	87
21-0	..	..	..	..	64	67	..	..	..	58	61	70	..	..	..	68	73	82
22-0	..	..	..	..	60	63	..	..	..	54	57	65	..	..	..	64	68	77
23-0	..	..	..	..	..	59	..	..	..	..	52	60	..	..	..	64	64	72
24-0	..	..	..	..	..	54	..	..	..	..	49	55	..	..	..	..	59	66
25-0	..	..	..	..	..	50	..	..	..	..	45	50	..	..	..	..	55	61
26-0	..	..	..	..	..	45	..	..	..	..	41	47	..	..	..	..	50	56
27-0	..	..	..	..	..	..	..	..	..	..	..	43	..	..	..	..	..	52
28-0	..	..	..	..	..	..	..	..	..	..	..	39	..	..	..	..	..	48
29-0	..	..	..	..	..	..	..	..	..	..	..	35	..	..	..	..	..	44
30-0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..



PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5-inch Slab

F Span Ft., In.	2-7										2-8										2-9									
	10'	12'	14'	16'	18'	22'	10'	12'	14'	16'	20'	24'	10'	12'	14'	16'	20'	24'	10'	12'	14'	16'	20'	24'						
	Safe Uniformly Distributed Total Load in 100-pound Units																													
9-0	112	144	175	207	237	306	126	161	196	232	304	380	139	178	218	257	337	425												
9-6	107	136	166	196	226	290	119	152	186	219	287	359	132	168	206	243	319	402												
10-0	101	129	157	185	212	273	113	144	176	208	271	339	125	160	195	230	301	379												
10-6	95	122	149	176	201	259	107	137	167	197	258	322	118	151	185	218	286	360												
11-0	90	116	142	167	191	246	102	130	159	187	244	305	113	144	176	208	271	342												
11-6	86	111	135	159	182	234	97	124	151	179	233	291	108	138	168	198	259	327												
12-0	82	106	129	152	173	222	92	119	144	170	222	277	103	131	160	189	247	312												
12-6	..	101	123	145	165	213	..	113	138	163	212	265	..	126	153	181	238	307												
13-0	..	97	118	139	157	203	..	109	132	155	202	253	..	120	147	173	228	285												
14-0	..	89	108	128	145	187	..	100	122	144	185	233	..	111	135	160	208	261												
15-0	..	82	100	118	133	171	..	93	113	133	171	214	..	103	125	148	189	240												
16-0	..	..	93	109	123	158	..	..	105	123	158	198	..	..	117	137	175	222												
17-0	..	..	86	102	113	145	..	..	97	115	146	181	..	..	109	128	163	206												
18-0	..	..	81	95	106	138	..	..	91	107	136	169	..	..	102	120	153	192												
19-0	..	..	75	88	96	132	..	..	85	100	126	157	..	..	95	112	148	179												
20-0	..	..	..	88	85	126	..	..	..	94	118	147	..	..	..	105	133	167												
21-0	..	..	..	77	81	116	..	..	..	88	110	137	..	..	..	99	124	156												
22-0	..	..	..	73	76	108	..	..	..	83	103	128	..	..	..	93	116	146												
23-0	..	..	..	..	72	99	..	..	..	..	96	120	..	..	..	..	109	137												
24-0	..	..	..	..	68	90	..	..	..	..	90	112	..	..	..	..	102	128												
25-0	..	..	..	..	63	81	..	..	..	..	83	104	..	..	..	..	95	120												
26-0	..	..	..	..	59	75	..	..	..	..	78	97	..	..	..	..	90	113												
27-0	..	..	..	..	..	70	..	..	..	..	73	91	..	..	..	..	85	106												
28-0	..	..	..	..	..	65	..	..	..	..	68	85	..	..	..	..	79	99												
29-0	..	..	..	..	..	60	..	..	..	..	63	79	..	..	..	..	73	92												
30-0	..	..	..	..	..	55	..	..	..	..	..	73	..	..	..	..	..	86												

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5-inch Slab

F	2-10				2-11				2-12									
	10'	12'	14'	16'	20'	24'	10'	12'	14'	16'	20'	24'	10'	12'	14'	16'	20'	24'
D	Safe Uniformly Distributed Total Load in 100-pound Units																	
Span Ft. In.																		
9-0	154	197	241	285	374	467	169	216	264	312	410	513	201	258	315	372	490	618
9-6	146	187	228	269	353	440	160	205	250	295	382	470	191	244	298	352	463	571
10-0	138	177	216	255	333	416	152	194	237	280	362	446	181	232	283	334	438	541
10-6	131	168	205	242	316	396	144	184	225	266	344	423	171	220	269	317	415	515
11-0	125	160	195	230	301	376	137	176	214	253	328	404	163	210	256	302	395	492
11-6	119	153	186	220	287	359	131	168	205	242	318	385	155	200	245	289	376	469
12-0	114	146	178	210	274	341	125	160	195	231	298	369	149	192	234	276	359	449
12-6		140	170	201	261	327		153	187	221	285	353		183	224	264	343	430
13-0		134	163	193	251	312		147	179	212	274	340		173	215	253	330	413
14-0		123	150	178	230	287		136	165	195	253	314		163	198	234	303	382
15-0		114	140	165	213	266		126	153	181	235	293		151	184	217	281	355
16-0			130	153	197	246			143	168	218	273			172	202	260	329
17-0			121	143	184	228			133	157	203	253			160	189	243	307
18-0			113	134	172	214			125	147	189	237			151	177	229	287
19-0			106	125	160	199			117	138	177	221			141	167	215	269
20-0				118	149	186				130	166	207				157	202	252
21-0				111	140	174				122	156	196				148	191	239
22-0				105	131	162				116	145	185				140	179	226
23-0					123	153					136	174					170	213
24-0					115	143					127	163					160	200
25-0					108	135					118	152					150	186
26-0					102	127					112	144					142	178
27-0					96	120					107	136					135	169
28-0					90	113					102	128					128	160
29-0					85	106					96	120					121	151
30-0						90						112						142

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5-inch Slab

F	2-13				2-14				2-15									
	10'	12'	14'	16'	20'	24'	10'	12'	14'	16'	20'	24'						
D	219	281	343	406	534	667	297	304	371	438	560	722	956	330	401	474	624	780
Span Ft.In.	9-0	9-6	10-0	10-6	11-0	11-6	12-0	12-6	13-0	13-6	14-0	14-6	15-0	15-6	16-0	16-6	17-0	17-6
	208	266	325	384	478	595	225	288	351	415	529	683	948	312	380	448	590	740
	197	252	308	364	454	565	213	273	333	393	500	648	896	296	360	425	559	701
	187	240	298	346	454	565	202	259	317	374	475	616	818	281	342	404	531	667
	179	228	279	329	433	540	193	247	302	356	450	587	808	268	326	385	506	634
	171	218	266	315	413	514	184	236	288	340	430	561	790	256	312	368	483	606
	163	200	255	301	394	490	176	223	275	325	411	535	765	245	298	352	462	579
	155	192	244	288	377	470	166	216	264	312	394	513	745	235	286	337	441	553
	147	182	234	276	361	451	157	207	253	300	377	492	725	225	274	324	423	531
	139	177	216	255	333	415	147	192	234	276	349	453	685	208	253	299	390	489
	131	165	201	237	309	386	137	178	218	257	324	421	655	194	236	278	363	455
	123	157	192	221	287	359	127	166	203	239	301	391	625	184	220	259	337	423
	115	149	182	211	273	341	117	154	190	224	282	364	595	174	206	243	315	395
	107	140	171	200	258	324	107	143	179	210	264	341	565	164	194	228	296	371
	99	132	161	188	243	302	97	132	168	198	248	319	535	154	182	215	278	348
	91	124	151	177	221	276	87	124	157	187	233	301	505	144	172	203	262	327
	83	116	141	166	200	250	77	116	146	176	220	280	475	134	162	192	248	312
	75	108	131	154	197	245	67	108	137	167	207	268	445	124	152	182	234	296
	67	100	121	143	187	231	57	100	129	159	197	255	415	114	142	172	224	280
	59	92	111	131	177	218	47	92	121	151	187	241	385	104	132	162	214	264
	51	84	101	119	166	207	37	84	113	143	176	227	355	94	122	152	202	248
	43	76	91	108	158	196	27	76	105	135	169	216	325	84	112	142	192	237
	35	68	81	96	150	188	17	68	97	127	160	205	295	74	102	132	182	225
	27	60	71	84	142	179	7	60	89	119	151	195	265	64	92	122	172	215
	19	52	61	73	134	169	1	52	81	111	142	185	235	54	82	112	162	204
	11	44	51	61	121	159	1	44	71	101	132	175	205	44	72	102	152	198

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5-inch Slab

F	2-16					2-17					2-18					2-19			
	10'	12'	14'	16'	20'	24'	12'	14'	16'	20'	24'	12'	14'	16'	20'	24'	14'	16'	
D	10'	12'	14'	16'	20'	24'	12'	14'	16'	20'	24'	12'	14'	16'	20'	24'	14'	16'	
Span Ft. In.	Safe Uniformly Distributed Total Load in 100-pound Units																		
9-0	275	353	430	509	571	650	805	463	546	721	902	405	496	586	708	965	588	641	
9-6	261	334	406	482	545	621	874	489	517	688	855	388	469	554	727	915	510	607	
10-0	247	317	385	457	502	573	355	416	490	647	810	364	445	526	689	805	484	578	
10-6	234	301	366	435	472	546	388	466	532	709	846	346	423	500	655	821	460	548	
11-0	224	287	349	414	456	531	322	377	444	585	733	330	404	477	624	788	439	532	
11-6	214	275	333	396	421	500	308	360	425	559	700	315	386	456	596	748	419	499	
12-0	204	262	319	378	400	481	294	345	406	534	669	301	369	436	569	715	401	477	
12-6	.	252	305	363	478	595	282	330	389	512	641	289	354	418	546	686	384	458	
13-0	.	241	293	348	459	571	271	317	378	490	614	277	339	401	523	658	369	439	
14-0	.	233	271	322	425	527	251	293	346	452	563	257	314	371	483	609	342	407	
15-0	.	208	252	299	395	490	233	273	322	421	528	239	292	345	449	566	318	379	
16-0	.	.	235	279	367	456	.	255	300	398	491	.	273	322	418	527	297	353	
17-0	.	.	220	262	342	426	.	239	281	367	461	.	256	302	391	494	278	331	
18-0	.	.	207	246	320	400	.	225	264	345	431	.	241	284	367	463	262	312	
19-0	.	.	195	231	301	373	.	211	249	324	407	.	227	268	346	435	.	294	
20-0	.	.	.	219	288	358	.	.	335	396	482	.	.	333	396	410	.	278	
21-0	.	.	.	207	268	337	.	.	223	290	360	.	.	240	309	388	.	263	
22-0	.	.	.	197	253	320	.	.	212	273	342	.	.	238	292	368	.	.	
23-0	.	.	.	.	241	308	.	.	.	294	368	.	.	.	278	349	.	.	
24-0	.	.	.	.	228	296	.	.	.	246	307	.	.	.	264	332	.	.	
25-0	.	.	.	.	215	269	.	.	.	233	292	.	.	.	250	315	.	.	
26-0	.	.	.	.	206	258	.	.	.	223	280	.	.	.	239	301	.	.	
27-0	.	.	.	.	197	246	.	.	.	213	267	.	.	.	227	288	.	.	
28-0	.	.	.	.	187	234	.	.	.	208	255	.	.	.	215	274	.	.	
29-0	.	.	.	.	177	222	.	.	.	193	242	.	.	.	207	261	.	.	
30-0	.	.	.	.	.	210	.	.	.	229	289	.	.	.	248	.	.	.	

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5-inch Slab

F	2-19			2-20			2-21			2-22			
	18'	22'	26'	14'	16'	18'	14'	16'	18'	14'	16'	18'	22'
D	Safe Uniformly Distributed Total Load in 100-pound Units												
Span Ft., In.													
9-0	938	1027	1268	609	782	847	1089	1358	646	769	891	1156	1428
9-6	887	974	1201	577	693	801	1029	1286	612	728	843	1060	1355
10-0	696	841	1068	515	613	710	921	1140	580	691	800	1087	1282
10-6	633	800	1014	490	583	675	933	1160	552	657	761	994	1230
11-0	604	762	967	467	556	644	885	1106	527	627	725	951	1176
11-6	577	729	923	447	532	615	798	981	503	599	693	909	1123
12-0	551	697	883	427	509	588	704	948	481	573	663	867	1071
12-6	523	667	847	410	488	564	730	910	462	550	635	834	1018
13-0	507	640	811	393	468	541	701	874	443	528	610	797	984
14-0	469	591	749	364	433	500	655	810	411	489	564	743	917
15-0	436	550	696	339	404	465	603	755	383	455	525	689	851
16-0	406	514	650	317	377	434	563	694	358	423	490	635	785
17-0	380	481	608	297	353	406	527	650	331	393	459	595	738
18-0	353	451	573	280	333	383	495	618	297	357	422	560	692
19-0	336	426	537	263	314	359	465	576	273	337	406	527	654
20-0	318	400	508	247	297	340	440	544	247	319	384	498	616
21-0	300	384	484	231	281	321	420	515	223	302	364	475	588
22-0	285	360	461	215	265	305	400	495	200	283	346	452	560
23-0	271	342	438	200	250	290	380	470	185	266	329	430	532
24-0	257	323	415	185	235	276	360	445	170	250	313	408	505
25-0	245	308	392	170	220	262	340	420	155	233	298	386	477
26-0	230	294	375	155	205	246	326	403	140	218	281	370	458
27-0	215	280	359	140	190	231	313	386	125	203	266	354	439
28-0	200	265	343	125	175	216	299	369	110	188	250	339	420
29-0	185	250	327	110	160	201	285	352	95	173	235	324	401
30-0	170	234	311	95	145	186	271	335	80	158	220	309	383

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5-inch Slab

F	2-23					2-24					2-25					3-19		
	14'	16'	18'	20'	24'	28'	16'	18'	20'	24'	28'	16'	18'	20'	24'	28'	18'	20'
D	Safe Uniformly Distributed Total Load in 100-pound Units																	
Span Ft., In.																		
9-0	654	813	942	1083	1367	1656	860	997	1146	1446	1752	907	1051	1208	1524	1847	1116	1283
9-6	620	770	892	1025	1297	1571	814	944	1085	1372	1662	859	995	1144	1446	1753	1056	1215
10-0	587	730	846	972	1227	1487	773	895	1029	1299	1573	815	944	1085	1369	1659	1002	1152
10-6	563	695	805	925	1176	1425	735	851	978	1245	1508	775	898	1032	1312	1591	953	1095
11-0	539	663	767	882	1125	1364	701	812	933	1191	1443	739	855	984	1256	1523	908	1044
11-6	515	634	733	843	1075	1308	670	776	892	1138	1378	707	818	941	1200	1455	868	998
12-0	491	606	701	806	1025	1242	641	742	853	1085	1314	676	785	899	1144	1387	830	954
12-6	467	581	672	773	975	1181	615	712	818	1032	1250	649	751	863	1088	1319	796	915
13-0	442	558	645	741	943	1142	591	688	785	998	1209	623	721	828	1052	1276	764	878
14-0	405	517	597	686	879	1068	547	632	727	931	1127	577	667	767	981	1190	707	812
15-0	383	482	556	639	815	962	510	588	676	865	1046	538	621	714	911	1105	658	756
16-0	362	450	519	591	752	911	476	549	631	797	965	503	580	666	841	1019	614	705
17-0	340	422	486	553	706	857	447	515	592	753	913	472	544	625	795	964	575	661
18-0	320	398	458	526	663	804	421	485	557	710	861	445	512	588	750	910	541	622
19-0	300	375	431	495	627	760	397	457	525	668	811	420	482	554	706	856	509	585
20-0	280	355	408	467	591	716	376	432	497	627	759	398	457	525	662	802	482	554
21-0	260	337	386	443	564	684	357	409	470	599	725	377	433	497	632	766	456	524
22-0	240	320	367	423	537	652	338	389	447	571	691	357	411	473	603	730	433	498
23-0	220	304	349	401	511	620	320	370	425	548	657	341	391	450	574	695	412	473
24-0	200	288	332	382	485	585	303	353	405	516	624	325	373	429	545	660	392	451
25-0	180	272	317	364	459	556	286	336	386	488	591	309	356	409	516	625	374	429
26-0	160	257	301	349	440	534	270	320	370	467	568	293	341	391	494	599	357	410
27-0	140	242	286	332	422	512	254	304	353	446	541	277	325	374	473	573	341	391
28-0	120	228	271	318	404	490	238	288	338	426	517	261	309	358	452	547	323	375
29-0	100	214	257	304	386	469	222	272	322	409	496	245	293	343	434	525	305	355
30-0	80	200	243	290	368	447	206	256	306	392	475	229	277	327	415	503	287	337

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5-inch Slab

Span Ft., In.	3-19						3-21						3-22					
	22'	26'	30'	18'	20'	22'	26'	30'	18'	20'	22'	26'	30'	20'	22'	24'	28'	32'
D	1449	1790	2198	1189	1368	1541	1906	2296	1286	1451	1638	2022	2405	1540	1737	1943	2353	2768
9-0	1372	1698	2019	1126	1295	1459	1809	2151	1170	1374	1551	1919	2283	1458	1644	1830	2233	2617
10-0	1301	1607	1910	1068	1228	1384	1712	2035	1110	1308	1471	1816	2160	1388	1590	1745	2113	2477
10-6	1237	1540	1831	1015	1168	1316	1637	1952	1055	1239	1399	1741	2072	1315	1483	1659	2011	2376
11-0	1179	1474	1753	968	1113	1255	1555	1869	1007	1182	1334	1667	1984	1254	1410	1583	1918	2205
11-6	1127	1408	1678	926	1064	1199	1488	1786	962	1139	1275	1598	1896	1199	1353	1513	1887	2104
12-0	1078	1342	1595	885	1017	1147	1422	1708	920	1080	1219	1519	1808	1147	1293	1447	1752	2003
12-6	1033	1276	1517	849	976	1100	1360	1617	882	1036	1169	1443	1717	1100	1241	1387	1680	1970
13-0	991	1234	1467	814	936	1055	1305	1555	847	994	1122	1397	1661	1056	1191	1332	1615	1906
14-0	917	1150	1367	754	867	977	1207	1461	784	920	1089	1394	1651	977	1102	1233	1494	1778
15-0	854	1066	1269	702	807	909	1124	1357	730	857	967	1212	1441	910	1026	1148	1391	1650
16-0	797	984	1170	655	753	848	1049	1248	681	800	903	1115	1326	850	958	1072	1298	1522
17-0	746	930	1108	614	705	795	983	1180	638	750	846	1057	1255	797	898	1005	1218	1442
18-0	702	876	1046	578	664	748	925	1112	601	706	797	999	1185	750	846	947	1147	1359
19-0	661	824	984	544	625	705	871	1044	566	665	750	941	1115	707	797	892	1080	1282
20-0	625	772	918	515	592	667	824	980	536	630	710	877	1043	669	755	844	1022	1198
21-0	592	737	877	487	560	631	788	937	507	596	673	838	997	634	715	800	970	1146
22-0	562	702	836	463	532	600	742	894	482	561	640	799	951	603	680	761	923	1094
23-0	534	667	795	440	506	570	707	851	459	539	608	760	905	574	647	724	877	1042
24-0	509	633	754	420	482	543	672	808	437	514	580	721	859	547	617	690	836	990
25-0	485	599	712	400	460	518	641	762	417	490	558	682	812	522	588	658	797	934
26-0	463	575	684	400	440	495	613	732	408	482	529	656	781	490	563	630	767	898
27-0	442	551	656	419	473	524	634	742	407	477	505	630	750	477	538	601	728	862
28-0	423	527	628	402	453	500	607	712	407	459	484	604	719	457	515	577	688	826
29-0	405	503	600	400	434	484	587	692	407	445	464	578	688	445	495	554	650	790
30-0	388	479	570	416	416	416	514	611	407	445	445	549	653	445	474	530	642	783

Safe Uniformly Distributed Total Load in 100-pound Units

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5-inch Slab

F D	3-23				3-24				3-25				4-21						
	20"	22"	24"	28"	32"	24"	26"	28"	32"	34"	24"	26"	28"	32"	34"	28"	30"	32"	34"
Span Ft.In.																			
9-0	1897	2054	2488	2915	2178	2401	2681	3068	3628	2234	2530	2774	3253	3504	2927	3214	3473	3749	3843
9-6	1479	1789	1945	2361	2767	2378	2492	2927	3155	2115	2396	2637	3088	3526	2772	3044	3289	3552	3652
10-0	1408	1650	1845	2265	2619	1952	2157	2664	2986	2007	2278	2492	2922	3148	2680	2888	3121	3363	3463
10-6	1384	1569	1755	2144	2497	1856	2051	2248	2657	1909	2162	2370	2803	3000	2502	2747	2969	3226	3326
11-0	1278	1497	1694	2053	2379	1771	1957	2145	2544	1821	2062	2261	2684	2856	2386	2620	2832	3089	3189
11-6	1216	1451	1600	1962	2274	1693	1871	2050	2431	2020	1741	1972	2162	2565	2282	2506	2708	2952	3052
12-0	1168	1388	1580	1871	2178	1619	1789	1961	2318	2498	1665	1886	2067	2446	2022	2182	2390	2590	2815
12-6	1116	1312	1469	1778	2088	1563	1716	1881	2204	2375	1597	1809	1983	2326	2094	2259	2485	2677	2877
13-0	1071	1260	1409	1720	2003	1491	1648	1806	2132	2299	1533	1737	1904	2251	2417	2610	2808	2986	3201
14-0	992	1166	1304	1606	1853	1381	1526	1672	1990	2147	1420	1609	1764	2101	2239	1862	2045	2210	2419
15-0	928	1086	1212	1492	1735	1286	1451	1558	1848	1985	1323	1499	1643	1951	2079	1735	1906	2059	2247
16-0	862	1015	1135	1374	1610	1202	1328	1455	1705	1898	1236	1400	1535	1800	1939	1621	1781	1924	2074
17-0	808	951	1064	1302	1513	1127	1245	1365	1615	1742	1159	1318	1440	1706	1819	1521	1670	1805	1966
18-0	761	896	1002	1230	1424	1062	1173	1286	1525	1646	1092	1238	1357	1612	1715	1434	1575	1702	1858
19-0	717	845	944	1158	1341	1001	1106	1212	1435	1550	1030	1167	1279	1518	1623	1352	1485	1605	1750
20-0	679	800	894	1088	1269	948	1047	1148	1345	1449	975	1105	1212	1421	1531	1281	1407	1520	1698
21-0	644	758	847	1036	1205	898	983	1088	1267	1366	925	1048	1149	1360	1456	1215	1334	1442	1568
22-0	612	721	806	989	1146	855	945	1036	1189	1283	880	1004	1099	1299	1382	1157	1270	1373	1498
23-0	582	686	767	943	1090	814	899	985	1111	1200	838	950	1041	1238	1320	1101	1210	1307	1428
24-0	555	654	732	895	1039	776	858	940	1083	1197	799	906	994	1177	1259	1051	1155	1248	1358
25-0	530	624	698	846	991	741	819	897	951	1133	763	865	949	1112	1198	1004	1103	1192	1284
26-0	507	598	668	814	950	709	784	859	911	1090	731	825	909	1070	1152	962	1057	1142	1236
27-0	484	571	638	782	907	678	749	821	871	1047	698	792	869	1028	1107	920	1010	1093	1188
28-0	464	548	612	750	869	650	719	788	831	1004	670	760	834	986	1062	883	970	1048	1140
29-0	442	526	588	718	834	625	691	756	801	961	644	731	801	944	1017	849	933	1008	1092
30-0	421	504	564	688	800	599	662	726	761	917	618	701	769	901	972	814	895	967	1043

Safe Uniformly Distributed Total Load in 100-pound Units



PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5½-inch Slab

F	2-4							2-5							2-6							2-7																		
	10'	12'	14'	16'	18'	20'	12'	14'	16'	18'	20'	12'	14'	16'	18'	20'	12'	14'	16'	18'	20'	12'	14'	16'	18'	20'	12'	14'	16'											
Span Ft.In.	Safe Uniformly Distributed Total Load in 100-pound Units																																							
9-0	96	119	143	174	196	113	138	163	186	211	120	157	185	211	240	144	176	207	120	157	185	211	240	144	176	207	120	157	185	211	240	144	176	207						
9-6	90	113	134	165	185	107	130	153	175	199	121	148	175	199	226	136	168	196	121	148	175	199	226	136	168	196	121	148	175	199	226	136	168	196						
10-0	85	106	127	156	175	101	123	145	165	188	115	140	165	188	214	129	157	185	115	140	165	188	214	129	157	185	115	140	165	188	214	129	157	185						
10-6	81	101	120	148	166	96	117	138	156	178	100	133	157	178	203	123	149	176	100	133	157	178	203	123	149	176	100	133	157	178	203	123	149	176						
11-0	77	96	115	141	157	91	111	131	148	169	104	126	149	169	192	116	142	167	104	126	149	169	192	116	142	167	104	126	149	169	192	116	142	167						
11-6	74	91	109	134	149	87	106	125	140	160	99	120	142	160	183	111	135	160	99	120	142	160	183	111	135	160	99	120	142	160	183	111	135	160						
12-0	70	87	104	128	142	83	101	119	133	152	94	115	135	153	174	106	129	152	83	101	119	133	152	94	115	135	153	174	106	129	152	94	115	135	153	174	106	129	152	
12-6	67	83	99	122	135	79	96	113	127	145	90	110	129	146	166	101	123	146	79	96	113	127	145	90	110	129	146	166	101	123	146	166	101	123	146	166	101	123	146	166
13-0	64	80	95	117	130	76	92	108	121	138	86	106	124	139	159	97	118	139	76	92	108	121	138	86	106	124	139	159	97	118	139	159	97	118	139	159	97	118	139	159
14-0	59	73	87	107	117	69	84	99	111	126	79	97	114	128	145	89	109	128	69	84	99	111	126	79	97	114	128	145	89	109	128	145	89	109	128	145	89	109	128	145
15-0	..	68	80	98	107	64	78	92	101	116	73	89	105	118	133	83	101	118	64	78	92	101	116	73	89	105	118	133	83	101	118	133	83	101	118	133	83	101	118	133
16-0	..	63	74	91	99	..	72	85	93	106	..	88	97	108	122	..	98	110	74	91	99	..	88	97	108	122	..	98	110	122	..	98	110	122	..	98	110	122	..	
17-0	..	58	69	84	91	..	67	78	85	98	..	77	84	92	104	..	81	95	84	91	..	77	84	92	104	..	81	95	104	..	81	95	104	..	81	95	104	..		
18-0	..	..	64	78	84	..	63	73	79	90	..	72	84	92	104	..	81	95	78	..	63	73	79	90	..	72	84	92	104	..	81	95	104	..	81	95	104	..		
19-0	..	..	60	72	78	..	58	68	71	82	..	67	78	85	97	..	76	89	..	..	60	72	78	..	67	78	85	97	..	76	89	109	128	145	89	109	128	145		
20-0	..	..	56	68	72	..	..	68	66	76	..	..	73	79	90	..	..	88	..	..	56	68	72	..	..	73	79	90	..	..	88	101	118	133	83	101	118	133		
21-0	..	..	..	64	67	..	..	59	61	70	..	..	69	73	84	..	..	98	..	..	..	64	67	..	..	69	73	84	..	..	98	110	122	..	98	110	122	..		
22-0	..	..	..	60	62	..	..	55	57	65	..	..	64	68	78	..	..	102	..	..	..	60	62	..	..	64	68	78	..	..	102	113	129	153	174	106	129	153		
23-0	..	..	..	..	57	..	..	..	52	60	..	..	..	63	72	..	..	104	..	..	..	..	57	..	..	..	63	72	..	..	104	113	129	153	174	106	129	153		
24-0	..	..	..	..	53	..	..	..	49	55	..	..	..	58	66	..	..	104	..	..	..	..	53	..	..	..	58	66	..	..	104	113	129	153	174	106	129	153		
25-0	..	..	..	..	49	..	..	..	45	51	..	..	..	54	61	..	..	104	..	..	..	..	49	..	..	..	54	61	..	..	104	113	129	153	174	106	129	153		
26-0	..	..	..	..	45	..	..	..	41	46	..	..	..	50	56	..	..	104	..	..	..	..	45	..	..	..	50	56	..	..	104	113	129	153	174	106	129	153		
27-0	..	..	..	..	..	..	..	..	42	48	..	..	..	51	57	..	..	104	..	..	..	..	..	..	..	..	51	57	..	..	104	113	129	153	174	106	129	153		
28-0	..	..	..	..	..	..	..	..	..	88	..	..	..	88	94	..	..	104	..	..	..	..	..	..	..	..	88	94	..	..	104	113	129	153	174	106	129	153		
29-0	..	..	..	..	..	..	..	..	..	84	..	..	..	84	90	..	..	104	..	..	..	..	..	..	..	..	84	90	..	..	104	113	129	153	174	106	129	153		
30-0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	104	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5½-inch Slab

F	2-7		2-8				2-9				2-10									
	20'	22'	12'	14'	16'	20'	24'	12'	14'	16'	18'	22'	26'	12'	14'	16'	18'	22'	26'	
Span Ft., In.	Safe Uniformly Distributed Total Load in 100-pound Units																			
9-0	270	304	151	197	232	302	350	480	178	218	257	304	378	465	198	241	285	326	419	515
9-6	255	287	152	186	219	285	350	480	168	206	243	278	357	439	187	228	269	308	396	487
10-0	240	271	144	176	208	270	330	460	160	195	230	263	338	416	177	215	255	292	375	460
10-6	228	257	137	167	197	257	321	450	152	185	219	249	320	394	168	205	242	277	355	437
11-0	216	244	130	159	188	244	305	440	145	176	208	237	304	375	160	196	231	263	339	416
11-6	206	232	124	152	179	232	291	430	138	168	199	226	290	357	153	187	220	251	323	396
12-0	196	221	119	145	171	221	278	420	132	161	189	215	277	340	146	178	210	239	308	378
12-6	187	211	114	139	163	211	265	410	126	154	181	206	264	325	140	171	201	229	294	361
13-0	178	202	109	133	156	202	253	400	121	147	174	197	252	311	134	164	193	219	281	346
14-0	164	185	100	122	144	185	232	390	112	136	160	181	232	286	124	151	178	202	258	318
15-0	151	170	98	113	133	170	214	380	104	126	148	167	214	264	115	140	165	186	238	294
16-0	139	157	91	105	124	157	198	370	97	117	138	155	198	244	108	130	153	173	221	272
17-0	129	145	84	98	115	145	183	360	90	109	128	144	183	227	101	121	143	161	206	252
18-0	119	134	77	92	108	135	170	350	83	102	120	134	170	211	94	114	134	150	192	236
19-0	111	124	71	86	101	126	158	340	76	95	112	125	159	196	87	107	126	140	179	220
20-0	103	116	65	79	95	118	148	330	69	88	106	117	149	183	80	100	118	131	168	206
21-0	96	108	60	74	89	110	138	320	63	81	99	109	138	171	74	94	111	123	157	193
22-0	90	100	55	69	84	103	130	310	57	74	94	102	130	160	68	88	105	115	147	181
23-0	84	93	50	64	79	96	121	300	51	68	86	96	122	150	62	82	98	108	138	170
24-0	78	87	45	59	74	90	113	290	46	63	80	90	114	141	56	76	92	102	130	160
25-0	72	81	40	54	69	84	105	280	41	58	74	84	107	132	51	71	87	96	122	150
26-0	67	75	35	49	64	78	98	270	36	53	69	79	101	124	46	66	82	90	115	141
27-0	62	70	30	44	59	72	91	260	31	48	64	74	95	116	41	61	77	85	108	132
28-0	57	65	25	39	54	67	85	250	26	43	59	69	89	109	36	56	72	80	102	124
29-0	52	60	20	34	49	62	79	240	21	38	54	64	83	102	31	51	67	75	96	117
30-0	47	55	15	29	44	57	74	230	16	33	49	59	77	95	26	46	62	70	90	110

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5 1/2-inch Slab

F	2-11					2-12					2-13								
	12'	14'	16'	18'	22'	26'	12'	14'	16'	18'	22'	26'	12'	14'	16'	18'	22'	26'	
D	Safe Uniformly Distributed Total Load in 100-pound Units																		
Span Ft In.																			
9-0	917	955	312	358	460	565	259	316	372	428	550	675	281	344	406	465	508	598	735
9-6	295	250	296	338	435	534	245	299	352	404	520	639	266	325	384	440	500	605	665
10-0	194	237	280	330	412	506	232	283	334	383	492	605	252	308	364	417	530	658	
10-6	184	225	266	304	391	480	221	269	317	364	467	574	240	293	345	396	509	625	
11-0	176	215	253	289	373	457	211	257	302	346	445	546	228	279	330	377	485	595	
11-6	168	205	242	276	355	435	201	245	289	331	425	521	218	267	315	360	463	598	
12-0	160	196	231	263	338	415	192	234	276	316	405	497	208	255	301	344	442	542	
12-6	154	187	221	252	323	397	184	224	264	302	388	476	200	244	288	329	423	519	
13-0	148	180	212	241	300	380	177	215	254	289	372	455	191	234	277	315	405	498	
14-0	137	166	196	222	284	350	163	199	234	267	343	420	177	217	256	291	374	459	
15-0	127	154	182	205	263	333	151	185	218	247	318	389	165	201	238	270	346	425	
16-0		143	169	191	245	300		172	203	230	295	362		188	221	251	322	396	
17-0		134	158	177	228	279		161	189	214	275	337		176	207	234	301	369	
18-0		126	148	165	212	261		151	178	201	256	316		165	195	219	282	346	
19-0		118	139	155	198	243		142	167	188	240	296		155	183	206	264	324	
20-0			131	145	186	228			158	177	226	278			178	194	248	305	
21-0			123	136	175	214			149	165	212	262			163	182	234	287	
22-0			116	128	164	201			141	157	200	247			155	172	221	271	
23-0				121	154	189				148	189	233				163	209	256	
24-0					145	178				140	179	219				154	198	242	
25-0				107	137	168				132	169	207				146	187	229	
26-0				101	129	159				125	160	196				138	177	217	
27-0					122	150					152	185					168	206	
28-0					115	141					144	175					150	190	
29-0					108	133					136	166					151	186	
30-0					102	125					129	158					144	176	

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5 1/2-inch Slab

F	2-14					2-15					2-16							
	12'	14'	16'	18'	26'	12'	14'	16'	18'	22'	26'	12'	14'	16'	18'	22'	26'	
D	Safe Uniformly Distributed Total Load in 100-pound Units																	
Span Ft. In.																		
9-0	304	371	439	504	647	795	880	402	474	545	609	890	353	429	510	585	752	924
9-6	288	352	415	477	612	752	812	380	449	515	602	814	334	406	482	554	712	876
10-0	273	333	394	452	580	713	296	390	426	488	627	771	317	385	457	525	675	830
10-6	260	317	374	420	551	677	282	343	405	464	585	732	302	366	435	499	641	787
11-0	248	302	357	409	524	644	269	327	386	442	567	697	288	349	415	475	611	750
11-6	237	289	341	390	500	615	256	312	369	422	542	665	275	334	396	454	583	716
12-0	227	276	325	372	478	588	245	298	352	403	518	636	263	319	379	434	557	685
12-6	217	264	312	357	458	568	235	286	338	386	496	609	252	306	363	416	534	656
13-0	208	254	299	342	439	539	226	275	324	370	475	584	242	294	348	398	512	629
14-0	192	235	277	316	405	497	209	254	300	342	439	539	224	272	322	368	473	581
15-0	179	218	257	293	376	461	195	236	279	317	407	500	208	253	300	342	439	539
16-0	160	203	240	272	350	429	180	220	260	296	379	466	196	236	280	318	409	502
17-0	140	180	214	244	327	400	165	205	243	276	354	435	181	221	262	298	383	470
18-0	120	159	191	219	299	375	150	194	229	259	332	408	166	208	247	280	359	441
19-0	108	148	178	204	286	352	135	183	215	243	312	383	151	196	232	262	337	414
20-0	96	137	167	191	270	332	120	168	203	229	294	361	136	181	219	248	318	390
21-0	84	127	156	179	255	313	105	152	192	216	277	341	121	166	208	234	300	368
22-0	72	117	146	168	240	296	90	138	183	205	262	322	106	151	197	221	284	348
23-0	60	107	136	157	227	280	75	126	174	194	248	305	91	136	181	210	269	329
24-0	48	97	126	147	215	265	60	114	164	184	235	289	76	121	166	199	255	312
25-0	36	87	116	137	204	251	45	102	152	174	223	274	61	111	151	180	242	297
26-0	24	77	106	127	198	238	30	90	140	166	212	260	46	101	141	180	230	282
27-0	12	67	96	117	188	223	15	80	130	162	202	247	31	91	131	180	228	285
28-0	0	57	86	107	174	214	0	70	120	158	193	235	21	81	121	170	225	285
29-0	0	47	76	97	166	204	0	60	110	148	183	224	11	71	111	160	215	274
30-0	0	37	66	87	158	194	0	50	100	140	174	213	1	61	101	150	205	263

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5 1/2-inch Slab

F	2-17						2-18						2-19					
	12'	14'	16'	18'	22'	26'	12'	14'	16'	18'	22'	26'	14'	16'	18'	22'	26'	
Span Ft. In.	Safe Uniformly Distributed Total Load in 100-pound Units																	
9-0	396	464	545	629	809	994	405	496	586	674	865	1063	539	641	742	861	991	1181
9-6	375	459	517	596	766	941	384	470	555	637	820	1006	510	607	702	811	941	1118
10-0	355	416	491	565	726	891	364	445	526	604	777	954	484	576	666	785	915	1090
10-6	337	396	466	537	698	848	346	424	500	574	739	907	460	548	633	754	884	1058
11-0	322	378	445	511	657	808	330	404	477	547	704	864	439	528	603	723	853	1026
11-6	308	361	425	488	627	771	315	386	456	523	672	826	419	500	576	707	837	1001
12-0	295	345	406	467	600	737	301	369	436	500	642	789	401	478	551	681	811	978
12-6	283	331	390	447	575	705	289	354	418	479	615	756	385	458	528	652	781	941
13-0	271	318	374	430	551	677	278	340	401	459	590	726	369	440	507	635	765	907
14-0	251	294	346	406	509	624	257	315	371	425	545	670	342	407	468	586	717	847
15-0	234	273	322	368	473	580	239	293	346	395	505	622	318	379	436	545	666	796
16-0	225	265	300	343	441	541	225	278	323	368	478	580	297	354	406	509	647	777
17-0	229	269	281	321	418	506	226	276	302	344	442	542	279	332	380	470	606	736
18-0	225	265	295	322	387	475	221	261	285	324	415	509	268	313	358	447	570	700
19-0	212	249	276	283	353	445	228	268	294	304	390	479	254	294	336	421	536	666
20-0	207	243	266	273	343	421	224	264	290	297	380	452	249	289	318	398	506	636
21-0	203	239	262	269	334	408	220	260	286	294	370	437	245	285	301	376	479	609
22-0	200	236	259	266	327	397	212	252	278	286	361	426	240	280	285	356	454	584
23-0	200	236	259	266	327	397	212	252	278	286	361	426	240	280	285	356	454	584
24-0	200	236	259	266	327	397	212	252	278	286	361	426	240	280	285	356	454	584
25-0	200	236	259	266	327	397	212	252	278	286	361	426	240	280	285	356	454	584
26-0	200	236	259	266	327	397	212	252	278	286	361	426	240	280	285	356	454	584
27-0	200	236	259	266	327	397	212	252	278	286	361	426	240	280	285	356	454	584
28-0	200	236	259	266	327	397	212	252	278	286	361	426	240	280	285	356	454	584
29-0	200	236	259	266	327	397	212	252	278	286	361	426	240	280	285	356	454	584
30-0	200	236	259	266	327	397	212	252	278	286	361	426	240	280	285	356	454	584

T-Girders and Special T-Beams with 5½-inch Slab

F	2-20				2-21				2-22				2-23					
	14"	16"	18"	22"	26"	14"	16"	18"	22"	26"	14"	16"	18"	22"	26"	14"	16"	18"
D	Safe Uniformly Distributed Total Load in 100-pound Units																	
Span Ft. In.																		
9-0	574	683	790	1019	1258	609	725	889	1051	1339	646	769	890	1147	1417	688	813	941
9-6	543	647	748	965	1191	577	686	794	1024	1297	612	728	842	1086	1341	647	770	891
10-0	515	614	709	914	1180	547	651	753	971	1202	581	691	799	1080	1272	614	731	845
10-6	480	584	674	869	1074	520	624	716	924	1144	552	659	759	979	1209	584	695	803
11-0	468	557	643	829	1024	496	591	682	880	1090	527	627	724	934	1153	557	663	766
11-6	447	532	614	792	978	475	565	652	840	1041	504	599	692	892	1101	533	634	732
12-0	428	509	587	757	934	454	540	623	804	995	482	573	662	853	1053	510	606	700
12-6	410	488	563	726	896	435	518	598	771	954	462	550	635	818	1010	489	582	671
13-0	394	469	540	697	859	418	497	574	740	915	444	528	609	785	970	470	559	644
14-0	365	434	500	645	795	387	461	531	684	846	411	489	563	727	897	435	517	596
15-0	340	404	465	600	740	361	429	494	636	787	383	456	524	676	835	405	482	555
16-0	317	377	434	559	690	337	401	461	594	735	358	426	489	631	779	379	451	518
17-0	297	354	406	523	646	316	376	432	557	680	336	399	459	591	731	355	423	486
18-0	280	333	382	491	608	298	354	406	524	649	316	376	432	556	688	335	399	457
19-0	.	314	359	462	572	.	334	382	494	611	.	355	406	524	647	.	376	431
20-0	.	297	340	437	540	.	316	361	466	577	.	335	384	495	612	.	355	408
21-0	.	282	321	414	511	.	300	342	442	546	.	318	364	469	579	.	338	386
22-0	.	.	305	393	484	.	.	325	419	519	.	.	346	445	550	.	.	367
23-0	.	.	.	290	373	460	.	300	398	493	.	.	329	423	523	.	.	349
24-0	.	.	.	276	355	438	.	294	379	469	.	.	313	403	498	.	.	333
25-0	.	.	263	338	417	.	.	280	361	447	.	.	298	384	474	.	.	317
26-0	.	.	.	308	398	.	.	345	427	512	.	.	307	402	492	.	.	.
27-0	.	.	.	300	380	.	.	339	408	487	.	.	305	402	482	.	.	.
28-0	.	.	.	295	368	.	.	315	390	469	.	.	295	414	482	.	.	.
29-0	.	.	.	282	348	.	.	301	378	457	.	.	292	397	474	.	.	.
30-0	.	.	.	270	333	.	.	288	357	437	.	.	298	380	457	.	.	.

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5½-inch Slab

F	2-23				2-24				2-25				3-19					
	22'	26'	14'	16'	18'	20'	24'	28'	16'	18'	20'	24'	28'	16'	18'	20'	24'	28'
D	Span Uniformly Distributed Total Load in 100-pound Units																	
Span Ft., In.																		
9-0	1213	1499	730	860	995	1137	1485	1737	907	1049	1198	1513	1831	961	1114	1273	1607	1945
9-6	1148	1419	681	815	942	1077	1359	1646	859	994	1135	1432	1735	910	1055	1206	1522	1844
10-0	1090	1346	647	778	894	1021	1289	1560	815	943	1076	1359	1645	863	1001	1144	1443	1746
10-6	1036	1290	615	735	850	971	1235	1484	775	896	1024	1292	1565	821	951	1087	1372	1661
11-0	988	1220	587	701	811	926	1169	1415	740	855	976	1232	1493	783	907	1037	1308	1584
11-6	944	1166	561	671	775	885	1116	1356	707	817	933	1178	1427	748	867	991	1250	1514
12-0	903	1115	536	642	741	847	1068	1293	677	783	892	1126	1364	715	829	947	1195	1447
12-6	866	1069	515	616	711	812	1024	1240	649	750	855	1080	1308	686	795	908	1146	1387
13-0	831	1025	494	591	682	779	983	1191	624	720	822	1037	1256	658	763	872	1100	1333
14-0	769	949	458	548	631	721	910	1103	578	666	761	960	1162	609	706	807	1017	1235
15-0	715	884	437	510	588	672	847	1026	538	620	708	894	1083	567	657	751	946	1148
16-0	668	825	399	477	549	627	791	957	508	579	661	835	1011	529	618	701	884	1069
17-0	626	778	374	448	514	588	741	898	472	543	620	788	948	496	574	656	828	1002
18-0	589	727	353	422	485	553	698	845	445	512	584	737	892	467	541	618	779	943
19-0	555	685	338	398	456	521	657	796	420	482	550	694	840	440	509	582	733	887
20-0	525	648	327	377	432	493	622	753	398	456	521	657	795	416	482	550	694	839
21-0	497	614	315	365	409	467	594	714	377	432	494	622	754	394	456	521	657	797
22-0	472	584	308	358	390	445	566	679	358	411	470	592	717	377	433	495	625	755
23-0	449	555	298	348	370	423	539	646	340	391	447	564	682	360	412	470	594	720
24-0	428	529	290	340	363	403	512	616	325	373	425	538	650	345	392	448	566	686
25-0	408	504	283	333	357	394	485	586	310	356	406	513	620	330	374	427	538	651
26-0	390	482	276	326	350	388	466	562	295	339	389	493	598	315	358	408	517	625
27-0	372	460	270	320	344	381	453	546	280	324	371	473	576	300	342	389	495	600
28-0	357	440	264	314	338	375	445	536	265	308	355	453	543	285	327	373	474	574
29-0	342	422	258	308	332	369	438	526	250	292	339	438	521	270	312	358	452	548
30-0	328	405	252	302	326	363	431	518	235	276	323	413	500	255	297	342	432	522

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5 1/2-inch Slab

F	3-20				3-21				3-22				3-23				
	16'	18'	20'	24'	18'	20'	22'	26'	30'	18'	20'	22'	26'	30'	20'	22'	24'
D	Safe Uniformly Distributed Total Load in 100-pound Units																
Span Ft., In.																	
9-0	1017	1188	1357	1712	2072	1439	1635	2007	2396	1338	1528	1724	2130	2533	1615	1823	2088
9-6	968	1124	1285	1632	1965	1393	1539	1905	2274	1306	1447	1632	2022	2420	1529	1726	1929
10-0	914	1067	1219	1537	1861	1132	1303	1460	1802	1302	1373	1549	1913	2284	1451	1638	1831
10-6	860	1014	1159	1462	1774	1076	1229	1388	1722	1143	1305	1473	1825	2188	1380	1557	1741
11-0	828	967	1105	1394	1687	1026	1172	1324	1642	1090	1245	1404	1737	2082	1316	1485	1660
11-6	792	924	1056	1332	1617	981	1120	1265	1562	1042	1190	1343	1649	1981	1258	1420	1587
12-0	757	884	1010	1273	1548	938	1071	1210	1497	1006	1158	1284	1588	1905	1208	1358	1518
12-6	726	848	968	1231	1479	900	1028	1160	1438	966	1092	1221	1527	1829	1154	1308	1456
13-0	697	814	929	1172	1421	863	986	1114	1377	917	1048	1182	1466	1754	1108	1250	1398
14-0	645	753	860	1085	1318	799	913	1031	1279	849	970	1094	1359	1624	1026	1158	1294
15-0	601	701	801	1010	1223	744	850	960	1198	791	903	1019	1267	1514	955	1078	1206
16-0	561	654	747	943	1141	695	794	896	1107	739	844	952	1176	1404	892	1007	1126
17-0	525	613	700	884	1069	651	744	840	1043	693	791	892	1108	1324	837	945	1056
18-0	495	577	659	832	1007	614	701	791	977	653	745	840	1041	1244	788	890	995
19-0	466	544	621	784	949	578	660	745	922	615	702	792	980	1171	743	839	937
20-0	441	515	588	741	897	547	625	705	871	582	665	750	926	1105	704	794	888
21-0	418	487	556	702	851	518	592	668	832	552	630	710	885	1056	667	753	841
22-0	400	463	529	668	811	493	563	635	793	525	599	676	844	1007	635	716	801
23-0	384	441	503	634	773	469	535	604	755	501	499	570	643	803	604	682	762
24-0	369	420	479	604	736	447	510	576	717	476	544	618	760	910	576	650	727
25-0	356	400	457	576	698	426	487	549	679	454	519	585	723	862	550	620	698
26-0	344	388	443	553	670	406	466	525	652	436	496	560	695	829	526	594	664
27-0	333	377	430	531	642	386	444	502	625	417	474	535	667	796	503	567	634
28-0	323	367	418	508	614	367	426	481	598	400	455	513	639	768	482	544	608
29-0	314	358	407	486	587	349	408	461	572	382	437	492	611	730	463	523	584
30-0	306	350	398	463	560	333	392	442	546	367	422	472	583	696	447	501	560



PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5 1/2-inch Slab

F	3-23			3-24			3-25			4-21			4-22						
	28'	32'	20'	22'	24'	28'	32'	22'	24'	26'	30'	34'	22'	24'	26'	30'	34'	24'	26'
D	Safe Uniformly Distributed Total Load in 100-pound Units																		
Span Ft., In.																			
9-0	2407	2602	1708	1928	2155	2609	3069	3033	3272	2511	3008	3484	2150	2428	2982	3202	3721	2556	2847
9-6	2341	2754	1617	1896	2041	2475	2913	1925	2152	2378	2846	3300	2087	2399	2940	3040	3533	2421	2696
10-0	2216	2607	1535	1798	1967	2344	2757	1827	2042	2257	2693	3181	1983	2215	2758	2844	3308	2298	2559
10-6	2113	2478	1450	1648	1842	2235	2620	1737	1942	2146	2574	3080	1888	2152	2533	2738	3196	2186	2434
11-0	2010	2365	1368	1572	1757	2136	2501	1657	1852	2047	2455	2940	1768	1979	2187	2611	3048	2085	2322
11-6	1920	2261	1331	1508	1680	2065	2398	1584	1771	1957	2337	2715	1677	1868	2091	2497	2901	1994	2220
12-0	1848	2163	1278	1437	1605	1944	2290	1515	1694	1872	2248	2598	1604	1810	2000	2388	2791	1907	2124
12-6	1763	2074	1221	1379	1541	1865	2194	1454	1625	1796	2159	2492	1539	1737	1919	2290	2681	1830	2038
13-0	1698	1990	1172	1324	1479	1794	2107	1396	1560	1724	2070	2392	1477	1668	1843	2200	2571	1757	1957
14-0	1567	1843	1086	1235	1370	1661	1950	1293	1445	1597	1917	2216	1399	1545	1707	2039	2381	1628	1813
15-0	1458	1716	1011	1142	1276	1547	1817	1205	1346	1488	1789	2064	1275	1440	1591	1900	2221	1517	1689
16-0	1363	1604	945	1067	1192	1449	1698	1136	1258	1390	1660	1929	1192	1345	1487	1775	2062	1418	1579
17-0	1277	1502	886	1000	1118	1354	1592	1056	1180	1304	1564	1808	1118	1262	1395	1665	1944	1330	1482
18-0	1204	1416	835	948	1054	1276	1501	995	1112	1229	1467	1703	1054	1190	1315	1570	1826	1254	1397
19-0	1134	1334	787	889	993	1203	1414	938	1048	1159	1390	1609	994	1122	1240	1480	1728	1183	1318
20-0	1074	1264	746	842	941	1138	1339	889	993	1098	1310	1523	942	1063	1175	1402	1629	1121	1249
21-0	1020	1197	707	798	892	1082	1275	843	942	1041	1253	1443	893	1008	1114	1331	1559	1064	1185
22-0	969	1139	673	760	849	1027	1212	802	897	991	1196	1373	851	960	1061	1267	1489	1013	1138
23-0	922	1085	640	723	808	981	1149	763	854	943	1139	1307	810	914	1010	1207	1419	965	1075
24-0	879	1034	611	690	771	936	1098	729	815	900	1082	1247	773	873	965	1152	1349	921	1026
25-0	839	987	583	658	736	890	1047	695	778	860	1026	1192	738	834	921	1100	1278	880	980
26-0	807	945	559	631	705	853	1007	667	745	823	997	1141	708	799	883	1056	1230	844	940
27-0	775	903	534	603	673	816	967	637	712	787	968	1093	677	764	844	1009	1182	807	899
28-0	743	866	512	578	646	781	928	612	684	756	939	1049	650	734	811	969	1134	775	863
29-0	711	832	491	556	621	750	880	588	657	726	901	1008	625	705	779	932	1086	745	830
30-0	679	798	464	528	596	721	849	564	631	697	833	968	600	677	748	894	1039	716	797

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 5½-inch Slab

F	4-22				4-23				4-24				4-25				4-26	
	28"	32"	36"	26"	28"	30"	32"	36"	28"	30"	32"	36"	28"	30"	32"	34"	36"	36"
D	Safe Uniformly Distributed Total Load in 100-pound Units																	
Span Ft., In.																		
9-0	3117	3668	4215	2945	3295	3592	3878	4457	3387	3799	4102	4415	4714	3803	4214	4638	4968	5059
9-6	2952	3482	4001	2808	3121	3402	3681	4230	3208	3598	3886	4192	4474	3600	3991	4393	4705	4792
10-0	2802	3323	3788	2665	2962	3229	3484	4004	3045	3415	3688	3969	4235	3418	3788	4170	4466	4547
10-6	2665	3163	3633	2535	2817	3071	3323	3818	2896	3248	3508	3785	4039	3254	3603	3967	4243	4290
11-0	2542	3028	3479	2418	2688	2930	3161	3633	2763	3099	3347	3602	3843	3102	3488	3785	4053	4128
11-6	2431	2893	3325	2312	2570	2802	3033	3485	2642	2964	3201	3455	3687	2970	3288	3620	3876	3948
12-0	2325	2759	3171	2212	2459	2680	2905	3338	2528	2835	3062	3308	3532	2844	3145	3463	3709	3777
12-6	2231	2625	3017	2123	2350	2572	2777	3191	2426	2721	2988	3162	3376	2734	3018	3323	3559	3624
13-0	2142	2540	2919	2038	2265	2470	2678	3078	2329	2618	2822	3043	3247	2616	2809	3191	3418	3481
14-0	1985	2371	2724	1888	2099	2288	2481	2852	2158	2421	2615	2821	3007	2425	2686	2968	3187	3226
15-0	1850	2203	2530	1790	1967	2133	2306	2650	2012	2237	2437	2629	2804	2260	2504	2757	2953	3008
16-0	1729	2085	2398	1645	1829	1994	2164	2474	1881	2110	2279	2453	2618	2113	2341	2578	2761	2813
17-0	1622	1927	2203	1544	1716	1871	2030	2330	1765	1980	2139	2302	2449	1984	2198	2420	2592	2640
18-0	1530	1821	2088	1456	1619	1765	1901	2186	1665	1868	2017	2171	2314	1871	2073	2283	2445	2491
19-0	1443	1715	1958	1373	1527	1665	1802	2070	1570	1762	1903	2048	2183	1765	1956	2154	2307	2350
20-0	1367	1609	1848	1302	1447	1578	1708	1957	1489	1671	1804	1942	2073	1672	1854	2042	2187	2228
21-0	1297	1539	1768	1235	1378	1497	1619	1861	1413	1586	1712	1849	1972	1587	1760	1938	2076	2115
22-0	1235	1470	1670	1177	1308	1426	1546	1765	1346	1511	1632	1756	1870	1511	1677	1847	1979	2016
23-0	1177	1401	1597	1121	1246	1359	1470	1689	1282	1440	1555	1696	1791	1441	1598	1761	1886	1921
24-0	1124	1332	1504	1070	1190	1298	1405	1613	1225	1375	1485	1637	1712	1377	1527	1682	1802	1836
25-0	1073	1263	1451	1023	1137	1240	1339	1538	1171	1314	1419	1578	1631	1316	1459	1608	1722	1755
26-0	1029	1216	1397	980	1090	1189	1281	1472	1122	1260	1361	1490	1571	1261	1400	1542	1652	1683
27-0	984	1169	1343	938	1043	1137	1223	1406	1074	1206	1308	1402	1510	1207	1340	1476	1581	1612
28-0	945	1122	1289	901	1002	1093	1179	1355	1032	1159	1252	1350	1450	1191	1287	1419	1520	1549
29-0	909	1075	1235	867	964	1051	1135	1304	993	1115	1204	1299	1390	1117	1239	1366	1463	1491
30-0	873	1028	1181	833	926	1010	1091	1254	954	1072	1157	1247	1331	1191	1312	1406	1483	1512

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 6-inch Slab

F	2-4			2-5			2-6			2-7			
	10'	12'	14'	16'	18'	20'	14'	16'	18'	22'	14'	16'	18'
D													
Span Ft., In.													
9-0	96	119	143	174	197	210	158	185	211	259	176	208	237
9-6	91	113	135	165	186	198	149	175	199	254	166	196	224
10-0	86	107	127	155	175	187	141	166	188	240	157	186	212
10-6	81	101	121	149	168	177	134	157	178	227	149	176	201
11-0	78	96	115	142	157	168	127	149	169	215	142	168	191
11-6	74	92	109	135	149	160	121	142	161	205	136	160	181
12-0	71	87	104	128	142	152	116	136	153	195	129	153	173
12-6	68	84	100	122	135	145	111	130	146	186	124	146	165
13-0	65	80	95	117	130	137	106	124	140	177	119	140	158
14-0	60	74	88	108	117	123	97	114	128	162	109	129	145
15-0	..	68	81	99	107	115	90	106	118	149	101	119	133
16-0	..	63	75	92	100	106	83	98	108	137	94	110	123
17-0	..	59	70	85	92	98	77	91	100	125	87	103	114
18-0	..	..	65	80	85	90	72	85	93	117	82	96	106
19-0	..	..	60	74	79	83	68	79	86	109	76	89	98
20-0	..	..	57	69	73	77	..	74	80	101	..	84	91
21-0	..	..	..	65	68	71	..	69	74	94	..	79	85
22-0	..	..	..	61	63	66	..	65	69	87	..	74	80
23-0	..	..	..	57	57	61	..	61	64	81	..	74	74
24-0	..	..	..	53	54	56	..	..	60	75	..	..	69
25-0	..	..	..	..	50	51	..	..	55	69	..	..	65
26-0	..	..	..	..	43	47	..	..	51	64	..	..	60
27-0	..	..	..	..	..	43	..	..	..	59	..	..	..
28-0	..	..	..	..	..	39	..	..	..	54	..	..	..
29-0	..	..	..	..	..	35	..	..	..	50	..	..	..
30-0	..	..	..	..	..	..	..	..	..	46	..	..	..

Safe Uniformly Distributed Total Load in 100-pound Units

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 6-inch Slab

F	2-7		2-8				2-9				2-10						
	20'	24'	14'	16'	18'	22'	26'	14'	16'	18'	22'	26'	14'	16'	18'	22'	26'
Span Ft. In.	Safe Uniformly Distributed Total Load in 100-pound Units																
9-0	208	337	197	233	266	338	412	218	257	295	375	462	242	285	327	416	511
9-6	254	318	186	220	251	320	390	206	243	278	355	437	238	270	309	394	494
10-0	240	301	176	208	237	302	368	195	231	263	335	413	217	256	292	372	457
10-6	223	285	168	198	225	280	352	186	219	250	320	395	206	249	277	354	436
11-0	218	270	159	188	214	270	336	177	208	238	304	375	196	231	264	338	415
11-6	208	257	152	179	204	263	320	169	199	227	290	357	187	221	252	321	395
12-0	198	245	145	171	194	250	304	161	190	216	276	340	179	211	240	306	376
12-6	187	234	139	164	186	239	287	154	182	206	262	323	171	202	229	292	359
13-0	180	224	133	157	177	237	276	148	174	197	252	311	164	193	220	280	345
14-0	167	205	123	145	163	209	254	138	161	182	232	286	151	178	202	257	317
15-0	153	189	114	134	150	193	234	126	149	168	214	265	140	165	187	236	293
16-0	139	174	106	124	139	176	214	117	138	155	197	243	130	154	173	220	270
17-0	129	162	98	116	129	164	200	110	129	144	183	227	122	144	161	206	252
18-0	120	150	92	108	120	152	186	103	121	135	170	211	114	135	151	192	236
19-0	112	139	86	101	112	142	172	96	113	125	159	197	107	125	141	179	220
20-0	108	129	85	104	114	132	160	95	106	117	149	188	107	119	132	167	205
21-0	96	120	84	97	104	124	150	94	100	110	138	172	99	112	124	157	193
22-0	91	111	84	91	97	116	141	94	94	103	130	160	99	106	116	147	181
23-0	85	108	85	108	114	132	152	94	97	102	122	150	99	109	118	148	170
24-0	79	96	80	80	80	101	123	91	91	91	114	142	99	108	130	160	
25-0	72	90	75	75	75	94	114	85	85	85	107	132	99	97	122	149	
26-0	67	84	70	70	70	88	105	80	80	80	101	124	99	91	115	141	
27-0	62	78	68	68	68	82	96	77	77	77	95	116	99	99	108	132	
28-0	58	72	65	65	65	77	87	72	72	72	89	109	99	99	102	124	
29-0	54	67	61	61	61	72	78	67	67	67	83	102	99	99	96	117	
30-0	50	62	57	57	57	67	69	62	62	62	77	95	99	99	90	110	

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 6-inch Slab

F	2-11				2-12				2-13				2-14				
	14"	16"	18"	22"	26"	14"	16"	18"	22"	26"	14"	16"	18"	22"	26"	14"	16"
D	Safe Uniformly Distributed Total Load in 100-pound Units																
Span Ft. In.																	
9-0	265	313	359	457	563	816	873	428	545	671	844	406	466	594	730	872	489
9-6	250	296	339	433	532	269	333	405	517	636	825	384	441	563	692	352	415
10-0	237	280	321	409	502	254	314	384	489	601	809	364	418	532	654	334	394
10-6	226	266	304	391	480	270	318	364	468	575	798	346	397	509	626	317	374
11-0	215	254	290	373	458	257	303	347	447	549	780	330	378	486	598	302	357
11-6	205	242	276	355	437	245	289	331	430	523	767	315	361	474	570	289	341
12-0	196	231	264	338	416	234	276	316	405	498	755	301	344	442	543	276	325
12-6	188	222	252	321	395	225	265	303	385	473	745	289	330	430	516	265	312
13-0	180	212	242	309	381	216	254	290	371	457	735	277	316	405	498	254	300
14-0	166	196	223	287	353	199	235	267	345	420	727	256	292	376	462	235	277
15-0	154	182	206	265	325	185	218	248	319	389	718	238	271	348	427	219	258
16-0	144	169	191	243	298	173	203	239	293	360	708	222	252	320	393	204	240
17-0	134	158	178	227	280	161	190	215	275	338	698	208	235	301	369	191	225
18-0	126	148	166	213	262	152	178	201	257	316	688	195	220	283	347	180	212
19-0	118	139	156	199	244	143	168	189	241	296	678	183	207	265	325	169	199
20-0	111	131	146	185	227	135	158	177	225	276	668	173	194	247	303	158	188
21-0	104	124	137	175	215	125	149	167	213	262	658	164	183	234	288	147	178
22-0	98	117	129	165	203	116	142	158	202	248	648	155	173	221	263	136	169
23-0	92	111	122	155	191	107	133	149	191	234	638	146	164	209	248	125	162
24-0	87	105	115	146	179	100	126	141	180	220	628	137	155	197	238	114	157
25-0	82	100	108	137	167	93	121	138	169	207	618	128	147	186	228	103	152
26-0	77	96	102	129	158	87	114	126	161	197	608	119	140	177	217	92	141
27-0	72	91	97	122	149	81	109	121	153	187	598	110	131	168	206	81	132
28-0	67	86	92	115	141	75	103	115	145	177	588	101	122	160	195	70	123
29-0	62	81	87	108	133	70	98	108	137	167	578	92	113	152	185	60	114
30-0	57	76	82	102	125	65	93	102	129	157	568	83	104	144	175	50	105



PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 6-inch Slab

Span Ft., In.	2-17				2-18				2-19				2-20				
	22'	26'	14'	16'	18'	22'	26'	14'	16'	18'	22'	26'	14'	16'	18'	22'	26'
D	Safe Uniformly Distributed Total Load in 100-pound Units																
9-0	808	987	496	586	674	839	1033	539	642	742	926	1164	574	683	790	1013	1250
9-6	761	936	470	555	638	815	1000	510	608	702	878	1108	544	647	748	961	1186
10-0	720	886	446	526	605	771	947	484	576	666	831	1033	516	614	710	909	1122
10-6	688	849	424	501	575	739	907	460	548	633	796	1009	491	584	675	871	1075
11-0	652	812	404	477	548	707	868	439	523	603	761	965	468	557	643	833	1039
11-6	622	775	386	456	523	675	829	420	500	577	727	921	447	532	615	795	988
12-0	595	738	370	436	500	643	790	402	478	551	693	878	428	509	588	758	937
12-6	570	701	354	418	479	611	751	385	458	528	659	825	411	488	563	722	891
13-0	546	677	340	402	460	590	726	370	440	507	637	807	394	469	541	698	861
14-0	505	630	315	372	425	549	676	342	407	469	593	750	365	434	500	656	802
15-0	470	584	293	346	395	509	626	319	380	436	549	696	340	405	465	602	744
16-0	438	538	274	323	369	469	577	298	354	407	507	643	318	378	434	556	686
17-0	411	508	257	303	345	443	545	279	332	381	479	607	298	354	406	526	650
18-0	385	478	242	285	324	417	513	263	313	358	451	571	281	334	383	496	612
19-0	361	448	228	269	305	391	481	245	295	337	423	537	265	313	360	466	574
20-0	341	419	214	254	288	366	450	229	279	319	396	503	248	298	340	436	537
21-0	322	399	201	241	272	349	429	215	265	301	377	480	233	283	322	416	512
22-0	305	379	189	229	258	332	408	201	251	286	359	457	218	268	306	396	487
23-0	289	359	177	217	245	315	387	187	237	272	341	434	203	253	291	376	462
24-0	274	340	166	206	233	298	366	173	223	259	323	411	189	239	277	356	437
25-0	261	321	156	192	218	281	345	160	210	246	305	388	175	225	264	337	415
26-0	248	307	146	179	202	269	330	148	200	236	292	372	162	212	254	323	398
27-0	238	293	137	170	192	257	315	137	188	224	279	356	151	201	243	309	381
28-0	226	279	128	161	181	240	301	126	177	213	267	340	141	191	235	295	364
29-0	215	265	120	153	172	228	287	116	167	203	255	324	131	181	225	282	347
30-0	206	252	112	145	163	223	273	107	157	193	243	308	122	172	217	279	331

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 6-inch Slab

F	2-21				2-22				2-23				2-24				
	14"	16"	18"	22"	26"	14"	16"	18"	22"	26"	14"	16"	18"	22"	26"	14"	16"
D	Safe Uniformly Distributed Total Load in 100-pound Units																
Span Ft., In.																	
9-0	600	725	839	1075	1330	646	769	800	1141	1407	684	813	941	1306	1489	723	800
9-6	577	687	794	1030	1292	612	739	848	1083	1356	647	770	891	1145	1413	686	815
10-0	548	651	753	965	1194	581	691	799	1024	1304	614	731	845	1083	1337	650	773
10-6	521	620	716	925	1158	553	657	760	975	1203	584	695	804	1031	1273	623	736
11-0	497	591	683	875	1083	527	627	725	930	1147	558	663	767	983	1213	596	702
11-6	475	565	653	838	1036	504	600	693	888	1095	533	634	733	939	1159	570	671
12-0	454	540	624	802	989	482	574	662	849	1047	510	607	701	898	1108	544	642
12-6	436	518	598	766	948	463	550	635	814	1004	489	582	672	861	1062	518	616
13-0	419	498	574	737	912	444	528	609	782	965	470	559	645	828	1020	499	591
14-0	388	461	531	679	842	412	489	564	724	892	435	518	597	765	944	463	548
15-0	361	430	494	635	783	384	456	525	673	830	405	483	555	712	879	430	511
16-0	338	401	461	591	731	358	426	490	628	774	379	451	519	665	830	401	477
17-0	317	376	432	556	686	336	400	459	589	727	356	423	485	624	769	377	448
18-0	299	355	407	521	644	317	377	432	554	684	336	399	458	587	723	355	422
19-0	278	334	383	491	606	298	355	407	522	643	317	376	432	553	681	334	399
20-0	258	317	362	463	573	278	335	385	493	608	298	357	408	523	644	314	378
21-0	239	300	343	440	546	260	318	365	468	577	278	338	387	496	611	298	358
22-0	221	282	326	417	518	243	299	347	444	548	260	320	368	471	581	278	341
23-0	204	265	310	396	490	227	282	330	422	521	243	299	350	448	552	260	325
24-0	188	248	295	377	467	211	266	314	402	496	227	282	334	427	526	243	307
25-0	173	231	281	359	444	196	251	298	383	472	211	266	318	407	501	227	292
26-0	159	216	264	344	426	181	236	285	366	450	196	251	303	389	480	211	277
27-0	146	202	250	329	408	167	222	271	349	430	181	236	287	371	458	196	263
28-0	134	189	237	314	390	154	210	259	334	412	167	222	275	356	438	181	249
29-0	123	177	225	300	372	142	200	249	320	395	154	210	263	341	430	167	237
30-0	113	166	216	287	355	131	191	240	307	378	142	200	251	327	408	154	227



PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 6-inch Slab

Span Ft., In.	2-24								2-25								3-19								3-20							
	18"	20"	24"	28"	14'	16'	18'	20'	18"	16"	14'	12'	10'	8'	6'	4'	28"	24"	20"	18"	16"	14"	12"	10"	8"	6"	4"					
D	Safe Uniformly Distributed Total Load in 100-pound Units																															
9-0	906	1188	1420	1725	702	907	1050	1194	1498	1819	962	1115	1268	1592	1927	1024	906	1188	1420	1725	702	907	1050	1194	1498	1819	962	1115	1268	1592	1927	1024
9-6	943	1073	1347	1636	723	859	994	1131	1430	1724	910	1055	1201	1510	1827	970	943	1073	1347	1636	723	859	994	1131	1430	1724	910	1055	1201	1510	1827	970
10-0	894	1018	1276	1550	685	815	943	1073	1346	1633	864	1001	1139	1429	1731	920	894	1018	1276	1550	685	815	943	1073	1346	1633	864	1001	1139	1429	1731	920
10-6	850	968	1223	1476	637	776	897	1020	1232	1536	821	952	1083	1361	1649	875	850	968	1223	1476	637	776	897	1020	1232	1536	821	952	1083	1361	1649	875
11-0	811	923	1159	1407	620	740	856	973	1222	1484	783	908	1033	1297	1572	854	811	923	1159	1407	620	740	856	973	1222	1484	783	908	1033	1297	1572	854
11-6	775	882	1106	1348	601	708	818	930	1168	1418	749	868	987	1249	1502	798	775	882	1106	1348	601	708	818	930	1168	1418	749	868	987	1249	1502	798
12-0	741	844	1058	1285	573	677	782	890	1116	1355	716	829	944	1184	1435	763	741	844	1058	1285	573	677	782	890	1116	1355	716	829	944	1184	1435	763
12-6	711	809	1014	1232	546	650	750	853	1070	1299	686	795	905	1135	1375	731	711	809	1014	1232	546	650	750	853	1070	1299	686	795	905	1135	1375	731
13-0	683	777	975	1191	526	624	720	819	1029	1249	659	753	859	1092	1324	702	683	777	975	1191	526	624	720	819	1029	1249	659	753	859	1092	1324	702
14-0	632	719	903	1097	488	578	667	758	932	1155	610	707	804	1009	1223	650	632	719	903	1097	488	578	667	758	932	1155	610	707	804	1009	1223	650
15-0	588	669	840	1020	454	539	621	706	886	1076	568	658	748	938	1139	605	588	669	840	1020	454	539	621	706	886	1076	568	658	748	938	1139	605
16-0	550	625	783	951	424	504	580	660	827	1004	530	614	698	876	1060	565	550	625	783	951	424	504	580	660	827	1004	530	614	698	876	1060	565
17-0	515	586	735	893	399	473	544	619	777	943	497	575	654	822	995	530	515	586	735	893	399	473	544	619	777	943	497	575	654	822	995	530
18-0	485	552	692	840	375	446	513	583	730	887	468	542	616	773	938	499	485	552	692	840	375	446	513	583	730	887	468	542	616	773	938	499
19-0	457	520	651	791	350	420	483	549	688	835	441	510	580	727	880	470	457	520	651	791	350	420	483	549	688	835	441	510	580	727	880	470
20-0	433	492	616	748	328	398	457	520	651	790	417	482	549	688	832	445	433	492	616	748	328	398	457	520	651	790	417	482	549	688	832	445
21-0	410	466	589	711	307	377	433	493	617	750	395	455	519	653	792	422	410	466	589	711	307	377	433	493	617	750	395	455	519	653	792	422
22-0	390	444	561	676	286	356	412	469	587	713	374	433	494	621	750	408	390	444	561	676	286	356	412	469	587	713	374	433	494	621	750	408
23-0	371	422	534	643	266	336	392	446	559	678	353	412	469	590	715	441	371	422	534	643	266	336	392	446	559	678	353	412	469	590	715	441
24-0	354	402	507	613	246	316	374	425	533	646	333	392	447	562	681	420	354	402	507	613	246	316	374	425	533	646	333	392	447	562	681	420
25-0	338	384	480	583	226	296	357	406	508	616	313	374	426	534	646	400	338	384	480	583	226	296	357	406	508	616	313	374	426	534	646	400
26-0	321	367	462	549	206	276	338	388	490	591	293	353	408	513	621	388	321	367	462	549	206	276	338	388	490	591	293	353	408	513	621	388
27-0	304	350	443	533	186	256	317	371	470	564	273	333	389	491	595	373	304	350	443	533	186	256	317	371	470	564	273	333	389	491	595	373
28-0	287	336	424	511	166	236	296	356	450	541	253	313	373	470	570	353	287	336	424	511	166	236	296	356	450	541	253	313	373	470	570	353
29-0	270	319	405	489	146	216	276	336	430	519	233	293	353	448	544	333	270	319	405	489	146	216	276	336	430	519	233	293	353	448	544	333
30-0	253	302	386	463	126	196	256	316	410	498	213	273	333	428	518	313	253	302	386	463	126	196	256	316	410	498	213	273	333	428	518	313

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 6-inch Slab

F	3-20				3-21				3-22				3-23				
	20"	24"	28"		16"	18"	20"	24"	28"	18"	20"	22"	26"	30"	18"	20"	22"
Span Ft. In.	Safe Uniformly Distributed Total Load in 100-pound Units																
9-0	1352	1695	2038		1087	1280	1424	1799	2184	1938	1522	1714	2116	2524	1414	1608	1812
9-6	1280	1608	1950		1029	1193	1358	1707	2070	1937	1441	1623	2004	2390	1389	1523	1716
10-0	1214	1522	1848		976	1132	1288	1616	1961	1902	1367	1540	1901	2267	1270	1445	1628
10-6	1154	1459	1764		929	1077	1223	1549	1880	1143	1300	1465	1809	2156	1208	1374	1548
11-0	1101	1385	1677		886	1027	1168	1483	1790	1090	1240	1397	1725	2056	1152	1311	1477
11-6	1052	1323	1607		847	982	1117	1417	1719	1042	1185	1335	1648	1965	1102	1253	1412
12-0	1006	1264	1538		810	939	1068	1351	1639	997	1134	1277	1577	1880	1054	1190	1350
12-6	965	1210	1469		777	900	1024	1285	1553	956	1087	1225	1512	1803	1011	1150	1296
13-0	926	1170	1414		746	864	983	1243	1508	918	1044	1176	1452	1731	970	1104	1243
14-0	857	1076	1311		690	800	910	1159	1406	850	966	1089	1344	1602	890	1022	1151
15-0	798	1001	1216		643	745	847	1075	1304	792	900	1014	1251	1492	837	952	1073
16-0	745	934	1134		600	695	791	993	1204	740	841	947	1108	1334	782	890	1002
17-0	698	880	1063		563	652	742	939	1140	693	788	888	1035	1307	733	834	940
18-0	658	825	1001		530	615	699	885	1076	653	743	836	982	1230	691	786	885
19-0	619	780	943		500	579	658	833	1012	616	700	788	972	1159	652	741	834
20-0	586	734	891		473	548	623	781	948	583	663	746	920	1098	617	702	790
21-0	555	700	846		449	519	590	746	905	553	628	707	872	1040	585	663	749
22-0	528	663	806			494	562	711	864	525	598	673	830	988	557	638	718
23-0	503	630	767			470	534	677	822	499	569	640	789	940	530	608	678
24-0	479	600	731			448	509	643	780	476	542	611	753	897	503	575	647
25-0	450	571	693			426	486	609	738	454	517	582	718	857	483	549	618
26-0	426	548	667				465	585	709		495	558	687	820		525	591
27-0	417	525	639				444	561	680		473	533	656	784		502	565
28-0	399	503	611				426	537	651		454	511	630	751		482	542
29-0		481	584					513	622			490	605	721			521
30-0		459	557					490	594			470	580	692			500

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 6-inch Slab

F	3-23			3-24			3-25			4-21						
	26'	30'	18'	20'	22'	26'	20'	22'	28'	32'	20'	22'	24'	28'	32'	
D	Safe Uniformly Distributed Total Load in 100-pound Units															
Span Ft. In.																
9-0	2257	2669	1496	1918	2366	2822	1794	2021	2250	2732	3219	1916	2159	2405	2919	3441
9-6	2123	2535	1417	1816	2246	2679	1699	1914	2131	2593	3057	1815	2045	2277	2771	3295
10-0	2010	2397	1344	1723	2126	2536	1612	1816	2022	2455	2885	1732	1940	2161	2633	3092
10-6	1927	2299	1278	1659	2039	2432	1538	1727	1923	2341	2777	1638	1845	2055	2497	2946
11-0	1845	2201	1219	1587	1952	2328	1463	1648	1885	2232	2659	1564	1760	1961	2381	2819
11-6	1763	2108	1166	1495	1865	2224	1399	1575	1754	2133	2541	1494	1688	1875	2277	2685
12-0	1681	2005	1115	1429	1778	2121	1338	1507	1678	2038	2423	1439	1610	1794	2177	2567
12-6	1599	1907	1070	1371	1692	2018	1283	1446	1610	1954	2305	1391	1545	1721	2089	2462
13-0	1547	1845	1027	1317	1637	1952	1232	1388	1545	1882	2230	1317	1488	1652	2007	2369
14-0	1443	1721	951	1219	1520	1822	1141	1286	1431	1742	2080	1230	1374	1531	1859	2193
15-0	1340	1597	887	1136	1417	1692	1064	1198	1334	1621	1932	1138	1281	1426	1732	2042
16-0	1237	1475	828	1061	1309	1562	994	1119	1246	1513	1784	1063	1197	1333	1618	1907
17-0	1171	1397	777	984	1239	1478	933	1050	1169	1422	1680	997	1123	1251	1519	1792
18-0	1105	1319	732	933	1169	1396	879	990	1102	1339	1596	946	1059	1179	1432	1689
19-0	1039	1241	691	884	1101	1314	829	933	1039	1261	1502	886	999	1110	1350	1592
20-0	975	1163	654	838	1033	1232	785	884	984	1194	1409	840	946	1055	1279	1507
21-0	932	1112	620	794	988	1178	745	838	933	1136	1348	797	898	999	1214	1432
22-0	889	1061	591	756	938	1124	709	790	899	1081	1287	759	855	952	1156	1363
23-0	846	1010	562	720	890	1070	675	760	846	1028	1236	723	814	907	1100	1297
24-0	804	959	537	687	853	1017	647	725	808	981	1165	690	777	865	1050	1238
25-0	762	909	512	656	808	964	615	693	771	936	1104	659	742	827	1003	1182
26-0	732	874	488	628	777	927	590	664	739	899	1062	632	712	792	963	1135
27-0	703	839	463	600	744	890	564	635	706	859	1020	605	681	758	921	1086
28-0	674	804	438	576	710	853	541	609	678	824	978	581	654	728	884	1041
29-0	645	769	413	554	685	816	516	586	652	791	936	554	628	700	850	1001
30-0	616	734	388	531	655	780	491	562	625	759	895	529	603	673	815	960

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 6-inch Slab

F	4-22				4-23				4-24				4-25				
	22'	24'	26'	30'	34'	22'	24'	26'	30'	34'	24'	26'	28'	32'	36'	26'	28'
D	Safe Uniformly Distributed Total Load in 100-pound Units																
Span Ft. In.																	
9-0	2290	2550	2827	3372	3922	2398	2606	2988	3565	4146	2858	3162	3462	4083	4700	3332	3650
9-6	2169	2415	2678	3201	3723	2353	2580	2980	3384	3936	2830	2965	3279	3877	4462	3156	3457
10-0	2056	2292	2541	3031	3525	2155	2423	2886	3304	3727	2564	2842	3112	3670	4225	2955	3251
10-6	1958	2180	2417	2907	3381	2050	2305	2755	3052	3575	2489	2704	2961	3495	4080	2849	3121
11-0	1868	2080	2306	2783	3237	1956	2190	2438	2911	3423	2327	2580	2825	3334	3834	2719	2978
11-6	1786	1980	2205	2660	3094	1870	2103	2331	2783	3271	2226	2467	2701	3188	3678	2600	2848
12-0	1708	1903	2109	2537	2951	1789	2012	2230	2661	3120	2129	2366	2584	3049	3523	2488	2725
12-6	1639	1826	2024	2414	2807	1717	1930	2140	2533	2969	2043	2265	2480	2925	3367	2387	2615
13-0	1574	1753	1943	2336	2716	1649	1854	2055	2455	2873	1962	2175	2381	2811	3240	2293	2511
14-0	1458	1624	1801	2180	2536	1528	1718	1904	2278	2682	1818	2016	2207	2604	3000	2125	2338
15-0	1359	1514	1678	2025	2356	1424	1601	1775	2118	2492	1695	1879	2057	2426	2797	1981	2170
16-0	1271	1415	1569	1871	2176	1331	1497	1659	1979	2302	1585	1757	1924	2298	2611	1852	2029
17-0	1192	1328	1472	1773	2062	1249	1405	1557	1859	2181	1488	1649	1805	2129	2444	1739	1905
18-0	1124	1252	1388	1675	1948	1178	1325	1469	1753	2061	1403	1555	1708	2007	2309	1640	1797
19-0	1061	1181	1309	1577	1834	1112	1250	1385	1653	1941	1324	1467	1607	1893	2178	1548	1696
20-0	1005	1119	1241	1479	1720	1053	1185	1313	1566	1821	1255	1391	1523	1794	2068	1468	1608
21-0	954	1062	1177	1415	1646	1000	1124	1246	1488	1743	1191	1320	1446	1707	1968	1393	1526
22-0	909	1012	1121	1351	1572	953	1071	1187	1417	1665	1185	1308	1437	1687	1866	1328	1455
23-0	865	964	1068	1288	1498	908	1020	1131	1350	1587	1169	1293	1420	1650	1787	1296	1386
24-0	827	920	1020	1225	1424	867	975	1080	1289	1509	1094	1216	1354	1480	1708	1209	1325
25-0	790	879	974	1162	1351	828	931	1032	1231	1432	1088	1205	1349	1414	1627	1156	1266
26-0	757	843	934	1118	1300	794	898	990	1182	1378	1047	1169	1319	1387	1567	1109	1215
27-0	724	805	894	1074	1249	760	855	947	1130	1325	1005	1120	1269	1306	1506	1062	1163
28-0	696	774	858	1031	1199	730	821	910	1086	1272	971	1085	1248	1248	1446	1020	1118
29-0	669	745	826	988	1149	703	790	876	1044	1219	939	1047	1200	1186	1386	982	1076
30-0	643	715	793	945	1099	675	759	841	1003	1166	906	1013	1153	1153	1327	944	1034

PITTSBURGH STEEL PRODUCTS COMPANY

T-Girders and Special T-Beams with 6-inch Slab

Span Ft. In.	4-25				4-26				4-27				4-28					
	30"	34"	38"	42"	28"	30"	32"	36"	40"	32"	34"	36"	38"	40"	34"	36"	38"	40"
F	3974	4622	5279	5936	3848	4337	4772	5403	6018	4832	5335	5778	6156	6533	5335	5838	6318	6834
D	3704	4352	5012	5672	3645	4108	4520	5200	5700	4576	5054	5478	5832	6203	5052	5524	5985	6475
	3572	4155	4745	5335	3459	3909	4290	4889	5410	4344	4797	5195	5535	5873	4797	5244	5681	6137
	3398	3987	4583	5173	3291	3710	4082	4704	5142	4194	4564	4943	5266	5686	4566	4991	5405	5889
	3242	3819	4361	4912	3140	3540	3885	4484	4912	3944	4355	4717	5025	5339	4355	4761	5158	5572
	3101	3651	4169	4727	3003	3385	3725	4287	4699	3771	4166	4511	4806	5102	4165	4553	4934	5388
	2907	3483	3977	4512	2873	3239	3584	4105	4499	3611	3986	4316	4599	4925	3988	4360	4721	5101
	2847	3312	3782	4282	2757	3108	3420	3897	4313	3464	3825	4143	4414	4684	3825	4182	4630	4894
	2734	3206	3661	4144	2648	2985	3285	3753	4144	3327	3674	3979	4239	4535	3674	4019	4352	4701
	2634	3098	3419	3845	2455	2707	3045	3506	3840	3084	3406	3689	3980	4237	3406	3726	4034	4359
	2586	2986	3177	3289	2581	2840	3269	3580	3580	2874	3176	3440	3665	3939	3176	3474	3763	4065
	2500	2970	3385	3740	2414	2656	3037	3348	3648	2930	3271	3518	3748	3938	2971	3248	3519	3803
	2074	2438	2783	3069	2366	2606	2944	3272	3143	2526	2730	3021	3219	3450	2786	3049	3305	3571
	1956	2306	2631	2886	2158	2353	2710	2965	2965	2388	2582	2851	3030	3202	2626	2876	3119	3370
	1846	2174	2479	2759	2018	2221	2557	2799	2799	2249	2485	2691	2867	3074	2484	2717	2944	3181
	1750	2036	2325	2617	1914	2106	2424	2654	2654	2133	2351	2532	2720	2886	2357	2577	2733	3018
	1651	1950	2227	2507	1817	2000	2303	2520	2520	2025	2238	2444	2583	2765	2237	2446	2652	2966
	1583	1864	2129	2386	1732	1907	2194	2402	2402	1980	2134	2311	2463	2644	2131	2332	2529	2733
	1509	1778	2031	2264	1651	1818	2093	2290	2290	1840	2035	2204	2348	2523	2034	2226	2412	2606
	1442	1692	1933	2158	1578	1737	2000	2189	2189	1760	1945	2107	2245	2402	1943	2128	2306	2492
	1378	1603	1831	2057	1509	1661	1913	2093	2093	1633	1860	2015	2147	2278	1860	2065	2205	2383
	1322	1545	1764	1984	1448	1594	1834	2008	2008	1615	1785	1934	2060	2196	1784	1953	2116	2287
	1266	1487	1697	1929	1387	1527	1758	1923	1923	1548	1710	1852	1978	2114	1712	1872	2027	2192
	1217	1429	1639	1868	1333	1468	1690	1849	1849	1489	1644	1781	1898	2032	1645	1800	1950	2108
	1171	1371	1563	1784	1284	1414	1627	1781	1781	1434	1583	1716	1828	1950	1584	1734	1878	2030
	1126	1309	1495	1693	1234	1359	1566	1713	1713	1379	1523	1650	1758	1895	1524	1668	1806	1953

Safe Uniformly Distributed Total Load in 100-pound Units

## Explanation of Floor Slab Tables

The maximum permissible span of floor slabs from 3 to 6 inches thick and for various live loads from 40 to 400 pounds per square foot are given in the following tables. The necessary area of steel reinforcement per lineal foot of slab is given in the third column and the number of the recommended **standard Pittsburgh fabric** is given in the fourth column.

For square or round bars the necessary area may be obtained from the third column and the requisite size and spacing of bars from pages 24 and 25.

The **floor slab tables** have been computed for various unit stresses, on the basis of  $\frac{1}{10} wl^2$  and  $\frac{1}{12} wl^2$ , the ratio of the moduli of steel and concrete being taken at 15.

At the top of the **beam tables** the necessary area of steel is given per lineal foot of slab based on  $\frac{1}{10} wl^2$  and stresses in the concrete and steel not exceeding 650 and 16,000 pounds per square inch respectively.

It should be noted that the **floor slab tables** give the necessary area of steel to develop the unit stresses given at the top of

each table and further give spans which on the basis of the load will develop the said unit stresses.

$f_c$  and  $f_s$  are respectively the unit stresses per square inch in the concrete and steel, and  $p$  equals the steel ratio or the ratio of the area of the steel to that of the concrete, neglecting the concrete below the steel.

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/10 wl^2$

$f_c = 500$  Lbs.     $f_s = 14,000$  Lbs.     $p = 0.0062$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab				
					40 Lbs.	50 Lbs.	75 Lbs.	100 Lbs.	125 Lbs.
3	$\frac{3}{4}$	0.168	19	36	6.5	6.3	5.8	5.3	4.9
3½	$\frac{3}{4}$	0.206	24	42	7.7	7.5	6.9	6.4	5.9
4	1	0.224	25	48	8.3	8.0	7.4	6.9	6.4
4½	1	0.260	27	54	9.5	9.1	8.6	7.9	7.3
5	1	0.299	29	60	10.6	10.2	9.6	8.8	8.2
5½	1½	0.335	32	66	11.6	11.3	10.3	9.5	8.8
6	1½	0.355	33	72	12.0	11.7	10.9	10.1	9.4

$f_c = 500$  Lbs.     $f_s = 15,000$  Lbs.     $p = 0.0056$

3	$\frac{3}{4}$	0.150	16	36	6.9	6.6	5.8	5.3	4.8
3½	$\frac{3}{4}$	0.183	21	42	8.3	7.8	6.9	6.3	5.8
4	1	0.200	23	48	8.7	8.3	7.4	6.7	6.2
4½	1	0.235	26	54	9.8	9.3	8.4	7.7	7.1
5	1	0.267	27	60	10.9	10.4	9.4	8.6	8.0
5½	1½	0.302	30	66	11.6	11.1	10.0	9.2	8.6
6	1½	0.317	31	72	12.2	11.7	10.7	9.9	9.2

$f_c = 500$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.005$

3	$\frac{3}{4}$	0.135	14	36	6.9	6.5	5.7	5.1	4.7
3½	$\frac{3}{4}$	0.165	19	42	8.1	7.6	6.8	6.1	5.7
4	1	0.180	20	48	8.5	8.1	7.2	6.6	6.1
4½	1	0.210	24	54	9.6	9.1	8.2	7.5	7.0
5	1	0.239	26	60	10.7	10.2	9.2	8.4	7.8
5½	1½	0.270	27	66	11.3	10.8	9.8	9.0	8.4
6	1½	0.284	28	72	12.0	11.5	10.4	9.6	9.0

$f_c = 500$  Lbs.     $f_s = 18,000$  Lbs.     $p = 0.0041$

3	$\frac{3}{4}$	0.110	12	36	6.6	6.2	5.5	5.0	4.5
3½	$\frac{3}{4}$	0.135	14	42	7.8	7.4	6.5	5.9	5.5
4	1	0.147	16	48	8.2	7.8	6.9	6.3	5.9
4½	1	0.172	19	54	9.3	8.8	7.9	7.2	6.7
5	1	0.196	22	60	10.3	9.8	8.8	8.1	7.6
5½	1½	0.221	25	66	10.9	10.4	9.5	8.7	8.1
6	1½	0.238	26	72	11.5	11.0	10.1	9.3	8.7



PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/10 w l^2$

$f_c = 500$  Lbs.     $f_s = 14,000$  Lbs.     $p = 0.0062$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab					
					150 Lbs.	200 Lbs.	250 Lbs.	300 Lbs.	350 Lbs.	400 Lbs.
3	3/4	0.168	19	36	4.6	4.1	3.7	3.4	3.2	3.0
3 1/2	3/4	0.206	24	42	5.5	4.9	4.5	4.1	3.9	3.6
4	1	0.224	25	48	5.9	5.3	4.8	4.5	4.2	4.0
4 1/2	1	0.260	27	54	6.8	6.1	5.6	5.2	4.9	4.6
5	1	0.299	29	60	7.7	6.9	6.3	5.9	5.5	5.2
5 1/2	1 1/4	0.335	32	66	8.3	7.5	6.9	6.4	6.0	5.7
6	1 1/4	0.355	33	72	8.9	8.0	7.4	6.9	6.4	6.1

$f_c = 500$  Lbs.     $f_s = 15,000$  Lbs.     $p = 0.0056$

3	3/4	0.150	16	36	4.5	4.0	3.6	3.3	3.1	2.9
3 1/2	3/4	0.183	21	42	5.4	4.8	4.4	4.1	3.8	3.5
4	1	0.200	23	48	5.8	5.2	4.7	4.4	4.1	3.9
4 1/2	1	0.235	26	54	6.7	6.0	5.5	5.1	4.7	4.5
5	1	0.267	27	60	7.5	6.8	6.2	5.7	5.4	5.1
5 1/2	1 1/4	0.302	30	66	8.1	7.3	6.7	6.2	5.8	5.5
6	1 1/4	0.317	31	72	8.7	7.8	7.2	6.7	6.5	6.0

$f_c = 500$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.005$

3	3/4	0.135	14	36	4.4	3.9	3.5	3.3	3.1	2.9
3 1/2	3/4	0.165	19	42	5.3	4.7	4.3	4.0	3.7	3.5
4	1	0.180	20	48	5.7	5.1	4.6	4.3	4.0	3.8
4 1/2	1	0.210	24	54	6.5	5.8	5.3	5.0	4.6	4.4
5	1	0.239	26	60	7.4	6.6	6.0	5.6	5.3	5.0
5 1/2	1 1/4	0.270	27	66	7.9	7.1	6.6	6.1	5.7	5.4
6	1 1/4	0.284	28	72	8.5	7.7	7.0	6.6	6.2	5.8

$f_c = 500$  Lbs.     $f_s = 18,000$  Lbs.     $p = 0.0041$

3	3/4	0.110	12	36	4.2	3.8	3.4	3.2	2.9	2.7
3 1/2	3/4	0.135	14	42	5.1	4.5	4.1	3.8	3.6	3.4
4	1	0.147	16	48	5.5	4.9	4.4	4.1	3.9	3.6
4 1/2	1	0.172	19	54	6.3	5.6	5.2	4.8	4.5	4.2
5	1	0.196	22	60	7.1	6.4	5.8	5.4	5.1	4.8
5 1/2	1 1/4	0.221	25	66	7.6	6.9	6.3	5.9	5.5	5.2
6	1 1/4	0.233	26	72	8.2	7.4	6.8	6.3	5.9	5.6

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/10 wl^2$

$f_c = 600$  Lbs.  $f_s = 14,000$  Lbs.  $p = 0.0084$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab				
					40 Lbs.	50 Lbs.	75 Lbs.	100 Lbs.	125 Lbs.
3	3/4	0.226	26	35	6.6	6.4	5.8	5.5	5.4
3 1/2	3/4	0.277	28	42	7.9	7.7	7.0	6.6	6.5
4	1	0.302	30	48	8.4	8.2	7.6	7.6	7.3
4 1/2	1	0.353	33	54	9.7	9.3	8.8	8.6	8.4
5	1	0.403	35	60	10.8	10.5	9.8	9.6	9.4
5 1/2	1 1/4	0.454	36	66	11.9	11.5	11.0	10.8	10.1
6	1 1/4	0.478	37	72	12.3	12.0	12.0	11.6	10.8

$f_c = 600$  Lbs.  $f_s = 15,000$  Lbs.  $p = 0.0075$

3	3/4	0.202	23	36	7.1	6.9	6.3	5.8	5.5
3 1/2	3/4	0.247	27	42	8.5	8.2	7.5	7.1	6.7
4	1	0.270	27	48	9.0	8.7	8.1	7.7	7.1
4 1/2	1	0.315	30	54	10.3	10.0	9.4	8.8	8.2
5	1	0.360	33	60	11.6	11.2	10.4	9.9	9.2
5 1/2	1 1/4	0.405	35	66	12.7	12.3	11.5	10.6	9.9
6	1 1/4	0.427	36	72	13.2	12.8	12.3	11.3	10.6

$f_c = 600$  Lbs.  $f_s = 16,000$  Lbs.  $p = 0.0068$

3	3/4	0.182	21	36	7.4	7.2	6.6	5.9	5.5
3 1/2	3/4	0.223	25	42	8.9	8.6	7.8	7.1	6.6
4	1	0.243	26	48	9.5	9.2	8.3	7.6	7.0
4 1/2	1	0.286	28	54	10.9	10.5	9.5	8.7	8.1
5	1	0.324	31	60	12.2	11.7	10.6	9.7	9.1
5 1/2	1 1/4	0.367	33	66	13.1	12.5	11.3	10.5	9.8
6	1 1/4	0.385	34	72	13.8	13.2	12.1	11.1	10.4

$f_c = 600$  Lbs.  $f_s = 18,000$  Lbs.  $p = 0.0056$

3	3/4	0.150	16	36	7.7	7.2	6.4	5.8	5.3
3 1/2	3/4	0.183	21	42	9.0	8.5	7.6	6.9	6.3
4	1	0.200	23	48	9.5	9.0	8.1	7.4	6.8
4 1/2	1	0.235	26	54	10.8	10.2	9.2	8.4	7.8
5	1	0.267	27	60	11.9	11.4	10.3	9.4	8.8
5 1/2	1 1/4	0.302	30	66	12.7	12.1	11.0	10.1	9.4
6	1 1/4	0.317	31	72	13.4	12.8	11.7	10.8	10.1

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/10 wl^2$

$f_c = 600$  Lbs.     $f_s = 14,000$  Lbs.     $p = 0.0084$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab					
					150 Lbs.	200 Lbs.	250 Lbs.	300 Lbs.	350 Lbs.	400 Lbs.
3	$\frac{3}{4}$	0.226	26	36	5.3	4.7	4.2	3.9	3.7	3.4
3½	$\frac{3}{4}$	0.277	28	42	6.3	5.6	5.1	4.7	4.4	4.2
4	1	0.302	30	48	6.8	6.1	5.6	5.1	4.8	4.5
4½	1	0.353	33	54	7.8	7.0	6.4	5.9	5.6	5.3
5	1	0.403	35	60	8.8	7.9	7.3	6.7	6.3	6.0
5½	1½	0.454	36	66	9.5	8.6	7.9	7.3	6.8	6.5
6	1½	0.478	37	72	10.2	9.2	8.5	7.9	7.4	7.0

$f_c = 600$  Lbs.     $f_s = 15,000$  Lbs.     $p = 0.0075$

3	$\frac{3}{4}$	0.202	23	36	5.2	4.6	4.2	3.8	3.6	3.4
3½	$\frac{3}{4}$	0.247	27	42	6.2	5.5	5.0	4.7	4.3	4.1
4	1	0.270	27	48	6.7	6.0	5.4	5.0	4.7	4.4
4½	1	0.315	30	54	7.7	6.9	6.3	5.8	5.4	5.1
5	1	0.360	33	60	8.6	7.8	7.1	6.6	6.2	5.8
5½	1½	0.405	35	66	9.3	8.4	7.7	7.2	6.7	6.3
6	1½	0.427	36	72	10.0	9.0	8.3	7.7	7.2	6.8

$f_c = 600$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.0068$

3	$\frac{3}{4}$	0.182	21	36	5.1	4.4	4.1	3.8	3.5	3.3
3½	$\frac{3}{4}$	0.223	25	42	6.1	5.4	5.0	4.6	4.3	4.0
4	1	0.243	26	48	6.6	5.9	5.4	5.0	4.6	4.4
4½	1	0.286	28	54	7.6	6.8	6.2	5.7	5.4	5.1
5	1	0.324	31	60	8.5	7.6	7.0	6.5	6.1	5.7
5½	1½	0.367	33	66	9.2	8.3	7.6	7.0	6.6	6.2
6	1½	0.385	34	72	9.8	8.9	8.2	7.6	7.1	6.7

$f_c = 600$  Lbs.     $f_s = 18,000$  Lbs.     $p = 0.0056$

3	$\frac{3}{4}$	0.150	16	36	4.9	4.4	4.0	3.7	3.4	3.2
3½	$\frac{3}{4}$	0.183	21	42	5.9	5.3	4.8	4.4	4.1	3.9
4	1	0.200	23	48	6.4	5.7	5.2	4.8	4.5	4.2
4½	1	0.235	26	54	7.3	6.5	6.0	5.5	5.2	4.9
5	1	0.267	27	60	8.2	7.4	6.8	6.3	5.9	5.6
5½	1½	0.302	30	66	8.9	8.0	7.3	6.8	6.4	6.0
6	1½	0.317	31	72	9.5	8.6	7.9	7.3	6.9	6.5

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/10 wl^2$

$f_c = 650$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.00769$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab				
					40 Lbs.	50 Lbs.	75 Lbs.	100 Lbs.	125 Lbs.
3	$\frac{3}{8}$	0.208	24	36	7.5	7.3	6.7	6.2	5.8
3½	$\frac{3}{8}$	0.254	27	42	9.0	8.7	8.0	7.5	7.0
4	1	0.277	28	48	9.6	9.3	8.6	8.1	7.5
4½	1	0.323	31	54	11.0	10.6	10.0	9.2	8.6
5	1	0.369	33	60	12.3	11.9	11.1	10.4	9.6
5½	1½	0.415	35	66	13.5	13.1	12.1	11.1	10.4
6	1½	0.498	36	72	14.0	13.6	12.8	11.9	11.1

$f_c = 700$  Lbs.     $f_s = 15,000$  Lbs.     $p = 0.0096$

3	$\frac{3}{4}$	0.259	27	36	7.2	7.0	6.4	6.0	5.8
3½	$\frac{3}{4}$	0.317	30	42	8.6	8.4	7.7	7.2	6.9
4	1	0.346	32	48	9.2	8.9	8.3	7.9	7.4
4½	1	0.403	35	54	10.6	10.2	9.6	8.9	8.5
5	1	0.461	37	60	11.8	11.4	11.0	10.3	9.7
5½	1½	0.518	38	66	13.0	12.6	11.7	11.0	10.6
6	1½	0.548	38	72	13.4	13.1	12.4	11.8	11.3

$f_c = 700$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.0087$

3	$\frac{3}{4}$	0.234	26	36	7.7	7.4	6.8	6.3	6.0
3½	$\frac{3}{4}$	0.286	28	42	9.2	8.9	8.2	7.7	7.4
4	1	0.312	30	48	9.8	9.5	8.8	8.4	7.9
4½	1	0.365	33	54	11.2	10.8	10.2	9.5	9.1
5	1	0.416	35	60	12.5	12.1	11.3	10.9	10.2
5½	1½	0.470	37	66	13.8	13.4	12.4	11.7	11.0
6	1½	0.494	37	72	14.3	13.9	13.2	12.5	11.7

$f_c = 700$  Lbs.     $f_s = 18,000$  Lbs.     $p = 0.0072$

3	$\frac{3}{4}$	0.193	22	36	8.3	8.0	7.2	6.5	6.0
3½	$\frac{3}{4}$	0.236	26	42	10.1	9.6	8.5	7.8	7.2
4	1	0.258	27	48	10.8	10.2	9.1	8.3	7.7
4½	1	0.302	29	54	12.1	11.5	10.4	9.5	8.8
5	1	0.344	32	60	13.4	12.8	11.6	10.6	9.9
5½	1½	0.389	34	66	14.3	13.7	12.4	11.4	10.6
6	1½	0.408	35	72	15.1	14.5	13.2	12.2	11.4

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/10 wl^2$

$f_c = 650$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.00769$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab					
					150	200	250	300	350	400
					Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
3	3/4	0.208	24	36	5.4	4.8	4.4	4.0	3.8	3.5
3 1/2	3/4	0.254	27	42	6.5	5.8	5.3	4.9	4.6	4.3
4	1	0.277	28	48	7.0	6.2	5.7	5.3	4.9	4.6
4 1/2	1	0.323	31	54	8.0	7.2	6.6	6.1	5.7	5.4
5	1	0.369	33	60	9.1	8.1	7.4	6.9	6.5	6.1
5 1/2	1 1/8	0.415	35	66	9.8	8.8	8.1	7.5	7.0	6.6
6	1 1/4	0.438	36	72	10.5	9.4	8.7	8.1	7.6	7.2

$f_c = 700$  Lbs.     $f_s = 15,000$  Lbs.     $p = 0.0096$

3	3/4	0.259	27	36	5.5	5.0	4.7	4.3	4.0	3.8
3 1/2	3/4	0.317	30	42	6.6	6.2	5.7	5.2	4.9	4.6
4	1	0.346	32	48	7.2	6.7	6.1	5.7	5.3	5.0
4 1/2	1	0.408	35	54	8.2	7.7	7.1	6.5	6.1	5.8
5	1	0.461	37	60	9.3	8.7	8.0	7.4	6.9	6.6
5 1/2	1 1/8	0.518	38	66	10.1	9.4	8.7	8.0	7.5	7.1
6	1 1/4	0.548	38	72	10.8	10.1	9.3	8.7	8.1	7.7

$f_c = 700$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.0087$

3	3/4	0.234	26	36	5.7	5.1	4.6	4.3	4.0	3.7
3 1/2	3/4	0.286	28	42	6.9	6.1	5.6	5.1	4.8	4.5
4	1	0.312	30	48	7.4	6.6	6.0	5.6	5.2	4.9
4 1/2	1	0.365	33	54	8.5	7.6	6.9	6.4	6.0	5.7
5	1	0.416	35	60	9.5	8.6	7.9	7.3	6.8	6.4
5 1/2	1 1/8	0.470	37	66	10.3	9.3	8.5	7.9	7.4	7.0
6	1 1/4	0.494	37	72	11.0	10.0	9.2	8.5	8.0	7.6

$f_c = 700$  Lbs.     $f_s = 18,000$  Lbs.     $p = 0.0072$

3	3/4	0.193	22	36	5.5	4.9	4.5	4.1	3.9	3.6
3 1/2	3/4	0.236	26	42	6.7	5.9	5.4	5.0	4.7	4.4
4	1	0.258	27	48	7.2	6.4	5.8	5.4	5.1	4.8
4 1/2	1	0.302	29	54	8.2	7.4	6.7	6.3	5.9	5.5
5	1	0.344	32	60	9.3	8.3	7.6	7.1	6.6	6.3
5 1/2	1 1/8	0.389	34	66	10.0	9.0	8.3	7.7	7.2	6.8
6	1 1/4	0.408	35	72	10.7	9.7	8.9	8.3	7.8	7.4

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/12 wl^2$

$f_c = 500$  Lbs.     $f_s = 14,000$  Lbs.     $p = 0.0062$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab				
					40 Lbs.	50 Lbs.	75 Lbs.	100 Lbs.	125 Lbs.
3	$\frac{3}{4}$	0.168	19	36	7.8	7.4	6.5	5.9	5.4
3½	$\frac{3}{4}$	0.206	24	42	9.2	8.7	7.7	7.0	6.5
4	1	0.224	25	48	9.7	9.2	8.2	7.5	6.9
4½	1	0.260	27	54	11.0	10.4	9.4	8.6	7.9
5	1	0.299	29	60	12.1	11.6	10.4	9.7	8.9
5½	1½	0.335	32	66	12.9	12.3	11.2	10.3	9.6
6	1½	.0855	32	72	13.6	12.8	11.6	10.8	10.3

$f_c = 500$  Lbs.     $f_s = 15,000$  Lbs.     $p = 0.0056$

3	$\frac{3}{4}$	0.150	16	36	7.7	7.2	6.4	5.8	5.3
3½	$\frac{3}{4}$	0.183	21	42	9.0	8.6	7.6	6.9	6.3
4	1	0.200	23	48	9.5	9.0	8.1	7.4	6.8
4½	1	0.235	26	54	10.8	10.2	9.2	8.4	7.8
5	1	0.267	27	66	11.9	11.2	10.2	9.4	8.8
5½	1½	0.302	30	66	12.7	12.1	11.0	10.1	9.5
6	1½	0.317	31	72	13.4	12.7	11.6	10.8	10.1

$f_c = 500$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.0050$

3	$\frac{3}{4}$	0.135	14	36	7.5	7.1	6.2	5.6	5.2
3½	$\frac{3}{4}$	0.165	19	42	8.9	8.3	7.5	6.7	6.2
4	1	0.180	20	48	9.4	8.8	7.8	7.2	6.7
4½	1	0.210	24	54	10.5	10.0	9.0	8.2	7.6
5	1	0.239	26	60	11.7	11.1	10.0	9.2	8.6
5½	1½	0.270	27	66	12.4	11.9	10.8	9.9	8.3
6	1½	0.284	28	72	13.1	12.6	11.5	10.6	9.9

$f_c = 500$  Lbs.     $f_s = 18,000$  Lbs.     $p = 0.0041$

3	$\frac{3}{4}$	0.110	12	36	7.3	6.9	6.0	5.4	5.0
3½	$\frac{3}{4}$	0.135	14	42	8.6	8.1	7.2	6.5	6.0
4	1	0.247	16	48	9.0	8.6	7.6	7.0	6.4
4½	1	0.172	19	54	10.2	9.7	8.7	8.0	7.4
5	1	0.196	22	60	11.3	10.8	9.7	8.9	8.3
5½	1½	0.221	25	66	12.0	11.5	10.4	9.6	8.9
6	1½	0.233	26	72	12.7	12.0	11.0	10.2	9.5

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/12 wl^2$

$f_c = 500$  Lbs.     $f_s = 14,000$  Lbs.     $p = 0.0062$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab					
					150 Lbs.	200 Lbs.	250 Lbs.	300 Lbs.	350 Lbs.	400 Lbs.
3	$\frac{3}{4}$	0.168	19	36	5.0	4.4	4.0	3.7	3.5	3.3
3½	$\frac{3}{4}$	0.206	24	42	6.0	5.4	4.9	4.5	4.2	4.0
4	1	0.224	25	48	6.5	5.8	5.3	4.9	4.6	4.3
4½	1	0.260	27	54	7.4	6.7	6.1	5.7	5.3	5.0
5	1	0.299	29	60	8.3	7.6	7.0	6.4	6.0	5.6
5½	1½	0.335	32	66	9.1	8.2	7.5	6.9	6.5	6.2
6	1½	0.355	33	72	9.6	8.7	8.0	7.5	7.0	6.6

$f_c = 500$  Lbs.     $f_s = 15,000$  Lbs.     $p = 0.0056$

3	$\frac{3}{4}$	0.150	16	36	4.9	4.4	3.9	3.7	3.4	3.2
3½	$\frac{3}{4}$	0.183	21	42	5.9	5.3	4.8	4.4	4.1	3.9
4	1	0.200	23	48	6.4	5.6	5.1	4.8	4.5	4.2
4½	1	0.235	26	54	7.3	6.5	6.0	5.5	5.2	4.9
5	1	0.267	27	60	8.2	7.4	6.7	6.2	5.9	5.5
5½	1½	0.302	30	66	8.9	8.0	7.3	6.8	6.7	6.0
6	1½	0.317	31	72	9.4	8.6	7.8	7.4	6.9	6.5

$f_c = 500$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.0050$

3	$\frac{3}{4}$	0.135	14	36	5.0	4.3	3.9	3.6	3.3	3.2
3½	$\frac{3}{4}$	0.165	19	42	5.9	5.1	4.6	4.4	4.1	3.8
4	1	0.180	20	48	6.2	5.5	5.1	4.6	4.4	4.2
4½	1	0.210	24	54	7.2	6.4	5.9	5.4	5.1	4.8
5	1	0.239	26	60	8.1	7.2	6.6	6.1	5.8	5.4
5½	1½	0.270	27	66	8.7	7.8	7.2	6.7	6.3	5.9
6	1½	0.284	28	72	9.3	8.4	7.7	7.2	6.7	6.4

$f_c = 500$  Lbs.     $f_s = 18,000$  Lbs.     $p = 0.0041$

3	$\frac{3}{4}$	0.110	12	36	4.6	4.2	3.7	3.4	3.2	3.1
3½	$\frac{3}{4}$	0.135	14	42	5.6	4.9	4.5	4.2	3.9	3.7
4	1	0.147	16	48	6.0	5.4	4.9	4.5	4.2	4.0
4½	1	0.172	19	54	6.9	6.2	5.7	5.2	4.9	4.6
5	1	0.196	22	60	7.8	7.0	6.4	5.9	5.6	5.3
5½	1½	0.221	25	66	8.4	7.6	6.9	6.5	6.0	5.7
6	1½	0.233	26	72	8.9	8.1	7.5	7.0	6.5	6.1

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/12 wl^2$

$f_c = 600$  Lbs.  $f_s = 14,000$  Lbs.  $p = 0.0084$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab				
					40 Lbs.	50 Lbs.	75 Lbs.	100 Lbs.	125 Lbs.
3	3/4	0.226	26	36	9.0	8.4	7.5	6.7	6.2
3 1/2	3/4	0.277	28	42	10.6	10.0	8.8	8.1	7.4
4	1	0.302	30	48	11.2	10.5	9.4	8.6	8.0
4 1/2	1	0.353	33	54	12.6	12.0	10.8	9.9	9.1
5	1	0.403	35	60	14.0	13.2	12.0	11.0	10.3
5 1/2	1 1/8	0.454	36	66	14.8	14.2	12.9	11.9	11.1
6	1 1/4	0.478	37	72	15.7	14.9	13.7	12.6	11.8

$f_c = 600$  Lbs.  $f_s = 15,000$  Lbs.  $p = 0.0075$

3	3/4	0.202	23	36	8.9	8.3	7.4	6.6	6.1
3 1/2	3/4	0.247	27	42	10.4	9.8	8.7	8.0	7.3
4	1	0.270	27	48	11.0	10.4	9.3	8.4	7.8
4 1/2	1	0.315	30	54	12.4	11.8	10.6	9.7	9.0
5	1	0.360	33	60	13.7	13.1	11.7	10.8	10.1
5 1/2	1 1/8	0.405	35	66	14.6	14.0	12.7	11.7	10.9
6	1 1/4	0.427	36	72	15.4	14.7	13.5	12.4	11.6

$f_c = 600$  Lbs.  $f_s = 16,000$  Lbs.  $p = 0.0068$

3	3/4	0.182	21	36	8.7	8.2	7.2	6.5	6.0
3 1/2	3/4	0.223	25	42	10.3	9.7	8.6	7.7	7.2
4	1	0.243	26	48	10.8	10.2	9.0	8.3	7.7
4 1/2	1	0.286	28	54	12.2	11.6	10.4	9.5	8.8
5	1	0.324	31	60	13.5	12.8	11.6	10.6	9.9
5 1/2	1 1/8	0.367	33	66	14.4	13.7	12.5	11.5	10.7
6	1 1/4	0.385	34	72	15.2	14.4	13.1	12.1	11.4

$f_c = 600$  Lbs.  $f_s = 18,000$  Lbs.  $p = 0.0056$

3	3/4	0.150	16	36	8.4	8.0	7.0	6.2	5.8
3 1/2	3/4	0.183	21	42	9.9	9.3	8.3	7.5	6.9
4	1	0.200	23	48	10.4	9.9	8.8	8.1	7.4
4 1/2	1	0.235	26	54	11.8	11.2	10.1	9.2	8.5
5	1	0.267	27	60	13.1	12.4	11.2	10.3	9.6
5 1/2	1 1/8	0.302	30	66	13.9	13.3	12.0	11.1	10.4
6	1 1/4	0.317	31	72	14.7	13.9	12.7	11.7	11.0



PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/12 wl^2$

$f_c = 600$  Lbs.     $f_s = 14,000$  Lbs.     $p = 0.0084$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab					
					150 Lbs.	200 Lbs.	250 Lbs.	300 Lbs.	350 Lbs.	400 Lbs.
3	$3/4$	0.226	26	36	5.8	5.1	4.6	4.3	4.0	3.8
3½	$3/4$	0.277	28	42	7.0	6.1	5.6	5.1	4.9	4.5
4	1	0.302	30	48	7.5	6.6	6.1	5.6	5.3	4.9
4½	1	0.353	33	54	8.6	7.7	7.0	6.5	6.1	5.7
5	1	0.403	35	60	9.7	8.7	8.0	7.4	6.9	6.5
5½	1½	0.454	36	66	10.4	9.4	8.6	8.0	7.5	7.1
6	1½	0.478	37	72	11.1	10.0	9.2	8.6	8.1	7.6

$f_c = 600$  Lbs.     $f_s = 15,000$  Lbs.     $p = 0.0075$

3	$3/4$	0.202	23	36	5.6	5.0	4.5	4.2	3.9	3.7
3½	$3/4$	0.247	27	42	6.9	6.1	5.5	5.1	4.8	4.5
4	1	0.270	27	48	7.4	6.5	6.0	5.5	5.2	4.9
4½	1	0.315	30	54	8.4	7.5	6.9	6.4	6.0	5.6
5	1	0.360	33	60	9.4	8.6	7.8	7.2	6.8	6.4
5½	1½	0.405	35	66	10.2	9.2	8.5	7.9	7.4	7.0
6	1½	0.427	36	72	10.9	9.9	9.0	8.4	7.9	7.5

$f_c = 600$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.0068$

3	$3/4$	0.182	21	36	5.5	4.9	4.5	4.2	3.9	3.7
3½	$3/4$	0.223	25	42	6.7	6.0	5.4	5.0	4.7	4.4
4	1	0.243	26	48	7.2	6.4	5.9	5.4	5.1	4.8
4½	1	0.286	28	54	8.3	7.4	6.8	6.3	5.9	5.6
5	1	0.324	31	60	9.3	8.3	7.7	7.1	6.7	6.2
5½	1½	0.367	33	66	10.1	9.1	8.3	7.7	7.2	6.9
6	1½	0.385	34	72	10.6	9.7	8.9	8.3	7.8	7.4

$f_c = 600$  Lbs.     $f_s = 18,000$  Lbs.     $p = 0.0056$

3	$3/4$	0.150	16	36	5.4	4.8	4.3	4.0	3.7	3.6
3½	$3/4$	0.183	21	42	6.5	5.8	5.3	4.9	4.5	4.3
4	1	0.200	23	48	7.0	6.2	5.6	5.3	4.9	4.6
4½	1	0.235	26	54	8.0	7.2	6.5	6.1	5.7	5.4
5	1	0.267	27	60	9.0	8.1	7.5	6.9	6.4	6.1
5½	1½	0.302	30	66	9.7	8.8	8.0	7.5	7.0	6.6
6	1½	0.317	31	72	10.4	9.4	8.7	8.1	7.5	7.1

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/12 wl^2$

$f_c = 650$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.00769$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab				
					40 Lbs.	50 Lbs.	75 Lbs.	100 Lbs.	125 Lbs.
3	3/4	0.208	24	36	9.3	8.7	7.7	6.9	6.4
3 1/2	3/4	0.254	27	42	10.9	10.3	9.1	8.3	7.6
4	1	0.277	28	48	11.5	10.9	9.7	8.9	8.2
4 1/2	1	0.323	31	54	13.0	12.3	11.1	10.2	9.4
5	1	0.369	33	60	14.4	13.7	12.4	11.4	10.6
5 1/2	1 1/4	0.415	35	66	15.3	14.6	13.2	12.2	11.4
6	1 1/4	0.438	36	72	16.1	15.4	14.1	13.0	12.1

$f_c = 700$  Lbs.     $f_s = 15,000$  Lbs.     $p = 0.0096$

3	3/4	0.259	27	36	9.9	9.3	8.2	7.5	6.8
3 1/2	3/4	0.317	30	42	11.6	11.0	9.8	8.9	8.2
4	1	0.346	32	48	12.3	11.6	10.4	9.6	8.8
4 1/2	1	0.403	35	54	13.9	13.2	11.8	10.8	10.0
5	1	0.461	37	60	15.4	14.7	13.2	12.1	11.3
5 1/2	1 1/4	0.518	38	66	16.3	15.6	14.2	13.0	12.2
6	1 1/4	0.548	38	72	17.2	16.5	15.0	13.9	13.0

$f_c = 700$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.0087$

3	3/4	0.234	26	36	9.8	9.2	8.1	7.4	6.7
3 1/2	3/4	0.286	28	42	11.5	10.9	9.7	8.8	8.1
4	1	0.312	30	48	12.1	11.3	10.3	9.3	8.6
4 1/2	1	0.365	33	54	13.7	13.0	11.7	10.7	9.9
5	1	0.416	35	60	15.2	14.4	12.9	12.0	11.1
5 1/2	1 1/4	0.470	37	66	16.1	15.4	14.0	12.9	12.0
6	1 1/4	0.494	37	72	17.0	16.2	14.8	13.7	12.8

$f_c = 700$  Lbs.     $f_s = 18,000$  Lbs.     $p = 0.0072$

3	3/4	0.193	22	36	9.5	8.9	7.8	7.1	6.5
3 1/2	3/4	0.236	26	42	11.2	10.5	9.3	8.4	7.8
4	1	0.258	27	48	11.8	11.1	9.9	9.0	8.4
4 1/2	1	0.302	29	54	13.3	12.6	11.3	10.4	9.6
5	1	0.344	32	60	14.7	13.9	12.6	11.6	10.8
5 1/2	1 1/4	0.389	34	66	16.0	15.0	13.6	12.5	11.7
6	1 1/4	0.408	35	72	16.5	15.7	14.3	13.3	12.5

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/12 wl^2$

$f_c = 650$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.00769$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab					
					150 Lbs.	200 Lbs.	250 Lbs.	300 Lbs.	350 Lbs.	400 Lbs.
3	$\frac{3}{4}$	0.208	24	36	5.9	5.3	4.8	4.4	4.1	3.9
3½	$\frac{3}{4}$	0.254	27	42	7.1	6.3	5.8	5.3	5.0	4.7
4	1	0.277	28	48	7.7	6.8	6.2	5.8	5.4	5.1
4½	1	0.323	31	54	8.8	7.9	7.2	6.7	6.3	5.9
5	1	0.369	33	60	9.9	8.9	8.2	7.6	7.0	6.7
5½	1½	0.415	35	66	10.7	9.6	8.8	8.2	7.7	7.3
6	1½	0.488	36	72	11.5	10.3	9.5	8.8	8.3	7.9

$f_c = 700$  Lbs.     $f_s = 15,000$  Lbs.     $p = 0.0096$

3	$\frac{3}{4}$	0.259	27	36	6.4	5.6	5.1	4.8	4.4	4.2
3½	$\frac{3}{4}$	0.317	30	42	7.7	6.9	6.2	5.8	5.3	5.0
4	1	0.346	32	48	8.2	7.4	6.9	6.2	5.8	5.5
4½	1	0.403	35	54	9.4	8.4	7.7	7.1	6.7	6.3
5	1	0.461	37	60	10.6	9.6	8.7	8.1	7.6	7.2
5½	1½	0.518	38	66	11.4	10.3	9.4	8.8	8.2	7.8
6	1½	0.548	38	72	12.2	11.1	10.2	9.4	8.9	8.4

$f_c = 700$  Lbs.     $f_s = 16,000$  Lbs.     $p = 0.0087$

3	$\frac{3}{4}$	0.234	26	36	6.2	5.5	5.0	4.6	4.3	4.0
3½	$\frac{3}{4}$	0.286	28	42	7.6	6.7	6.1	5.6	5.3	4.9
4	1	0.312	30	48	8.1	7.2	6.6	6.1	5.7	5.4
4½	1	0.365	33	54	9.3	8.3	7.6	7.0	6.6	6.2
5	1	0.416	35	60	10.4	9.4	8.6	8.0	7.5	7.1
5½	1½	0.470	37	66	11.3	10.2	9.3	8.7	8.1	7.7
6	1½	0.494	37	72	12.1	10.9	10.0	9.3	8.8	8.3

$f_c = 700$  Lbs.     $f_s = 18,000$  Lbs.     $p = 0.0072$

3	$\frac{3}{4}$	0.193	22	36	6.1	5.4	4.9	4.5	4.2	3.9
3½	$\frac{3}{4}$	0.236	26	42	7.4	6.5	5.9	5.5	5.1	4.8
4	1	0.258	27	48	7.8	7.0	6.4	5.9	5.5	5.3
4½	1	0.302	29	54	9.0	8.1	7.4	6.8	6.4	6.0
5	1	0.344	32	60	10.2	9.2	8.3	7.7	7.3	6.9
5½	1½	0.389	34	66	11.0	9.9	9.1	8.4	7.9	7.5
6	1½	0.408	35	72	11.7	10.5	9.7	9.0	8.5	8.1

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/10 wl^2$

$f_c = 500$  Lbs.  $f_s = 20,000$  Lbs.  $p = 0.00341$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab				
					40 Lbs.	50 Lbs.	75 Lbs.	100 Lbs.	125 Lbs.
3	$\frac{3}{4}$	0.092	9	36	6.5	6.1	5.3	4.8	4.4
3½	$\frac{3}{4}$	0.113	12	42	7.6	7.1	6.3	5.8	5.3
4	1	0.123	13	48	8.0	7.5	6.8	6.2	5.7
4½	1	0.143	16	54	9.0	8.6	7.7	7.0	6.5
5	1	0.163	18	60	10.0	9.5	8.6	7.9	7.3
5½	1½	0.184	21	66	10.6	10.1	9.2	8.4	7.9
6	1½	0.194	22	72	11.2	10.7	9.6	9.0	8.4

$f_c = 600$  Lbs.  $f_s = 20,000$  Lbs.  $p = 0.00465$

3	$\frac{3}{4}$	0.126	14	36	7.5	7.0	6.2	5.6	5.1
3½	$\frac{3}{4}$	0.154	17	42	8.8	8.3	7.3	6.7	6.2
4	1	0.168	19	48	9.3	8.7	7.8	7.1	6.6
4½	1	0.195	22	54	10.4	9.9	8.9	8.1	7.6
5	1	0.223	25	60	11.5	11.0	10.0	9.2	8.5
5½	1½	0.251	27	66	12.2	11.7	10.7	9.8	9.2
6	1½	0.265	27	72	12.9	12.4	11.3	10.5	9.8

$f_c = 650$  Lbs.  $f_s = 20,000$  Lbs.  $p = 0.00533$

3	$\frac{3}{4}$	0.144	16	36	8.0	7.5	6.6	5.9	5.4
3½	$\frac{3}{4}$	0.176	20	42	9.4	8.7	7.8	7.1	6.6
4	1	0.192	22	48	9.9	9.3	8.4	7.6	7.0
4½	1	0.223	25	54	11.1	10.4	9.5	8.6	8.1
5	1	0.255	27	60	12.3	11.7	10.6	9.8	9.0
5½	1½	0.287	28	66	13.1	12.5	11.4	10.4	9.8
6	1½	0.303	30	72	13.8	13.2	12.0	11.2	10.4

$f_c = 700$  Lbs.  $f_s = 20,000$  Lbs.  $p = 0.00603$

3	$\frac{3}{4}$	0.163	18	36	8.5	8.0	7.0	6.3	5.8
3½	$\frac{3}{4}$	0.199	23	42	10.0	9.4	8.3	7.6	7.0
4	1	0.217	24	48	10.5	9.9	8.9	8.1	7.5
4½	1	0.253	27	54	11.8	11.3	10.1	9.2	8.6
5	1	0.289	29	60	13.0	12.5	11.3	10.4	9.6
5½	1½	0.325	31	66	13.8	13.3	12.1	11.1	10.4
6	1½	0.343	32	72	14.6	14.0	12.7	11.9	11.1

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/10 wl^2$

$f_c = 500$  Lbs.     $f_s = 20,000$  Lbs.     $p = 0.00341$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab					
					150 Lbs.	200 Lbs.	250 Lbs.	300 Lbs.	350 Lbs.	400 Lbs.
3	3/4	0.092	9	36	4.1	3.7	3.3	3.0	2.9	2.7
3 1/2	3/4	0.113	12	42	4.9	4.4	4.0	3.7	3.5	3.3
4	1	0.123	13	48	5.3	4.7	4.3	4.0	3.7	3.5
4 1/2	1	0.143	16	54	6.1	5.5	5.0	4.6	4.3	4.1
5	1	0.163	18	60	6.9	6.2	5.6	5.2	4.9	4.6
5 1/2	1 1/8	0.184	21	66	7.5	6.7	6.2	5.7	5.3	5.0
6	1 1/4	0.194	22	72	8.0	7.1	6.6	6.2	5.8	5.5

$f_c = 600$  Lbs.     $f_s = 20,000$  Lbs.     $p = 0.00465$

3	3/4	0.126	14	36	4.8	4.2	3.9	3.5	3.3	3.1
3 1/2	3/4	0.154	17	42	5.7	5.1	4.7	4.3	4.1	3.8
4	1	0.168	19	48	6.2	5.5	5.0	4.7	4.3	4.1
4 1/2	1	0.195	22	54	7.0	6.4	5.8	5.4	5.0	4.8
5	1	0.223	25	60	8.0	7.1	6.5	6.1	5.7	5.4
5 1/2	1 1/8	0.251	27	66	8.6	7.8	7.1	6.6	6.2	5.8
6	1 1/4	0.265	27	72	9.3	8.3	7.7	7.1	6.7	6.3

$f_c = 650$  Lbs.     $f_s = 20,000$  Lbs.     $p = 0.00533$

3	3/4	0.144	16	36	5.1	4.5	4.1	3.8	3.6	3.3
3 1/2	3/4	0.176	20	42	6.1	5.4	5.0	4.6	4.3	4.0
4	1	0.192	22	48	6.6	5.8	5.4	5.0	4.6	4.3
4 1/2	1	0.223	25	54	7.5	6.8	6.2	5.7	5.4	5.1
5	1	0.255	27	60	8.5	7.6	7.0	6.5	6.1	5.7
5 1/2	1 1/8	0.287	28	66	9.2	8.3	7.6	7.0	6.6	6.2
6	1 1/4	0.303	30	72	9.9	8.8	8.2	7.6	7.1	6.8

$f_c = 700$  Lbs.     $f_s = 20,000$  Lbs.     $p = 0.00603$

3	3/4	0.163	18	36	5.4	4.8	4.4	4.0	3.8	3.5
3 1/2	3/4	0.199	23	42	6.5	5.8	5.3	4.9	4.6	4.3
4	1	0.217	24	48	7.0	6.2	5.7	5.3	4.9	4.6
4 1/2	1	0.253	27	54	8.0	7.2	6.6	6.1	5.7	5.4
5	1	0.289	29	60	9.1	8.1	7.4	6.9	6.5	6.1
5 1/2	1 1/8	0.325	31	66	9.8	8.8	8.1	7.5	7.0	6.6
6	1 1/4	0.343	32	72	10.5	9.4	8.7	8.1	7.6	7.2

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/12 wl^2$

$f_c = 500$  Lbs.     $f_s = 20,000$  Lbs.     $p = 0.00341$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab				
					40 Lbs.	50 Lbs.	75 Lbs.	100 Lbs.	125 Lbs.
3	$\frac{3}{4}$	0.092	9	36	7.1	6.6	5.9	5.2	4.9
3½	$\frac{3}{4}$	0.113	12	42	8.3	7.8	6.9	6.3	5.8
4	1	0.123	13	48	8.7	8.3	7.4	6.8	6.2
4½	1	0.143	16	54	9.9	9.3	8.4	7.8	7.1
5	1	0.163	18	60	10.0	10.4	9.4	8.7	8.1
5½	1½	0.184	21	66	11.6	11.1	10.0	9.3	8.7
6	1½	0.194	22	72	12.2	11.7	10.7	9.9	9.2

$f_c = 600$  Lbs.     $f_s = 20,000$  Lbs.     $p = 0.00465$

3	$\frac{3}{4}$	0.126	14	36	8.2	7.7	6.8	6.1	5.6
3½	$\frac{3}{4}$	0.154	17	42	9.6	9.1	8.0	7.3	6.7
4	1	0.168	19	48	10.1	9.6	8.5	7.8	7.2
4½	1	0.195	22	54	11.5	10.8	9.8	9.0	8.3
5	1	0.223	25	60	12.7	12.1	10.9	10.0	9.3
5½	1½	0.251	27	66	13.5	12.9	10.6	11.8	10.0
6	1½	0.265	27	72	14.2	13.6	11.4	12.5	10.7

$f_c = 650$  Lbs.     $f_s = 20,000$  Lbs.     $p = 0.00533$

3	$\frac{3}{4}$	0.144	16	36	8.7	8.2	7.2	6.5	6.0
3½	$\frac{3}{4}$	0.176	20	42	10.2	9.7	9.5	7.8	7.1
4	1	0.192	22	48	10.8	10.2	9.1	8.4	7.7
4½	1	0.223	25	54	12.2	11.6	10.4	9.6	8.8
5	1	0.255	27	60	13.5	12.9	11.6	10.7	10.0
5½	1½	0.287	28	66	14.4	13.7	12.4	11.5	10.7
6	1½	0.303	30	72	15.4	14.5	13.2	12.2	11.4

$f_c = 700$  Lbs.     $f_s = 20,000$  Lbs.     $p = 0.00603$

3	$\frac{3}{4}$	0.163	18	36	9.3	8.7	7.7	6.9	6.4
3½	$\frac{3}{4}$	0.199	23	42	10.9	10.3	9.1	8.3	7.6
4	1	0.217	24	48	11.5	10.9	9.7	8.9	8.2
4½	1	0.253	27	54	13.0	12.3	11.1	10.2	9.4
5	1	0.289	29	60	14.3	13.6	12.4	11.4	10.6
5½	1½	0.325	31	66	15.2	14.5	13.1	12.2	11.4
6	1½	0.343	32	72	16.0	15.3	14.0	13.0	12.1

PITTSBURGH STEEL PRODUCTS COMPANY

Floor Slabs.  $M = 1/12 wl^2$

$f_c = 500$  Lbs.     $f_s = 20,000$  Lbs.     $p = 0.00341$

Thickness of Slab, Inches	Concrete below Steel Inches	Area Steel per Lin. Ft. of Slab Square Inches	Number of Pittsburgh Fabric	Weight of Slab per Sq. Ft., Lbs.	Span in Feet for Safe Live Load in Pounds per Square Foot of Slab					
					150 Lbs.	200 Lbs.	250 Lbs.	300 Lbs.	350 Lbs.	400 Lbs.
3		0.092	9	36	4.5	4.0	3.7	3.3	3.1	3.0
3½	¾	0.113	12	42	5.4	4.8	4.4	4.0	3.8	3.6
4	1	0.123	13	48	5.9	5.2	4.7	4.4	4.1	3.9
4½	1	0.143	16	54	6.7	6.0	5.5	5.1	4.8	4.5
5	1	0.163	18	60	7.5	6.8	6.2	5.8	5.3	5.1
5½	1½	0.184	21	66	8.1	7.3	6.7	6.2	5.9	5.6
6	1½	0.194	22	72	8.7	7.8	7.2	6.7	6.3	6.0

$f_c = 600$  Lbs.     $f_s = 20,000$  Lbs.     $p = 0.00465$

3	¾	0.126	14	36	5.2	4.7	4.2	3.9	3.6	3.4
3½	¾	0.154	17	42	6.3	5.6	5.1	4.7	4.4	4.1
4	1	0.168	19	48	6.8	6.0	5.4	5.1	4.8	4.5
4½	1	0.195	22	54	7.8	7.0	6.3	5.9	5.6	5.2
5	1	0.223	25	60	8.7	7.8	7.2	6.7	6.2	5.9
5½	1½	0.251	27	66	9.4	8.5	7.8	7.2	6.8	6.4
6	1½	0.265	27	72	10.1	9.1	8.4	7.8	7.3	7.0

$f_c = 650$  Lbs.     $f_s = 20,000$  Lbs.     $p = 0.00533$

3	¾	0.144	16	36	5.5	5.0	4.5	4.1	3.9	3.7
3½	¾	0.176	20	42	6.7	5.9	5.4	5.0	4.7	4.4
4	1	0.192	22	48	7.2	6.4	5.8	5.4	5.1	4.8
4½	1	0.223	25	54	8.3	7.4	6.8	6.3	5.9	5.6
5	1	0.255	27	60	9.3	8.4	7.7	7.1	6.6	6.3
5½	1½	0.287	28	66	10.1	9.0	8.3	7.7	7.2	6.9
6	1½	0.303	30	72	10.8	9.7	8.9	8.3	7.8	7.4

$f_c = 700$  Lbs.     $f_s = 20,000$  Lbs.     $p = 0.00603$

3	¾	0.163	18	36	5.9	5.3	4.8	4.4	4.1	3.9
3½	¾	0.199	23	42	7.1	6.3	5.8	5.3	5.0	4.7
4	1	0.217	24	48	7.7	6.8	6.2	5.8	5.4	5.1
4½	1	0.253	27	54	8.8	7.9	7.2	6.7	6.3	5.9
5	1	0.289	29	60	9.9	8.9	8.2	7.6	7.0	6.7
5½	1½	0.325	31	66	10.7	9.6	8.8	8.2	7.7	7.3
6	1½	0.343	32	72	11.5	10.3	9.5	8.8	8.3	7.9

## Explanation of Table for Hollow Tile Floors

When a flat ceiling is desired, a combination reinforced concrete and terra-cotta tile floor construction may be found advantageous, as shown in the drawings on page 271. The table has been prepared on the basis of tiles varying from 4 to 12 inches in depth, the total depth of the floor being 2 inches greater than that of the tile.

The 2-inch slab over the tile with the concrete between consecutive tiles forms T-beams which have been computed on the basis of  $\frac{1}{16} wl^2$ , the stresses in the concrete and steel not exceeding 650 and 16,000 pounds per square inch.

Each section of concrete between adjacent tiles is reinforced with a single "frame," the number of which is indicated at the top of the table.

When a combination concrete and tile floor frames into a girder, this girder is usually made a T-section by omitting adjacent tile and replacing same in whole or part with concrete. In order to design this girder obtain the total load upon same and enter with this load into the "T-Girder and Special T-Beams" tables, selecting the necessary reinforcing frames.

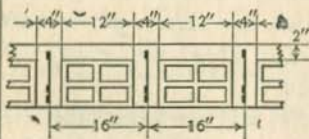
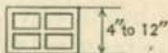
Having selected the frames, determine the necessary width of flange of the T-girder for the said frames by means of the tables of the "Width in Inches of Rectangular Beams Developed by a Single Frame" and "Modifying Factors for the Width of T-Beams," see page 26.



PITTSBURGH STEEL PRODUCTS COMPANY

Safe Live Load in Pounds per Square Foot for Concrete and Hollow Tile Floors

Span Feet	4-In. Tile 1 No. 5 Frame	5-In. Tile 1 No. 7 Frame	6-In. Tile 1 No. 9 Frame	7-In. Tile 1 No. 11 Frame	8-In. Tile 1 No. 11 Frame	9-In. Tile 1 No. 12 Frame	10-In. Tile 1 No. 12 Frame	12-In. Tile 1 No. 15 Frame
	Weight of Floor per Square Foot							
	50 Lbs.	54 Lbs.	62 Lbs.	67 Lbs.	73 Lbs.	76 Lbs.	82 Lbs.	92 Lbs.
6	426	..	..	..	..			
7	298	..	..	..	..			
8	219	409	..	..	..			
9	163	312	408	..	..			
10	122	242	326	460	..			
11	92	191	258	369	..			
12	70	152	207	299	406			
13	52	121	168	245	335	385	..	..
14	39	97	136	202	278	320	362	..
15	..	78	110	167	233	270	306	..
16	..	63	89	138	197	228	269	..
17	..	49	71	114	166	193	219	358
18	..	..	57	95	140	164	188	310
19	..	..	45	79	118	139	158	268
20	..	..	..	65	100	119	135	233
21	..	..	..	53	84	100	116	203
22	..	..	..	42	71	84	98	176
23	..	..	..	..	59	71	80	154
24	..	..	..	..	48	58	69	134
25	..	..	..	..	38	48	57	117
26						39	48	102
27						..	37	88
28						..	..	75
29						..	..	64
30						..	..	53
31						..	..	44



## Explanation of Tables for Rectangular Beams

To design a beam using these tables, find the total load per foot of beam and having arbitrarily selected a depth for a given span divide the total load by the tabulated safe load corresponding to the depth and span. This will give the necessary width of beam in inches. Now multiply the area at the top of the column of the selected depth by the necessary width of beam and the product so found will give the required area of bottom reinforcement.

Select the reinforcing frames on page 21, corresponding the above area.

**Example.** Design a rectangular beam of 20-foot span having a net depth of 20 inches to carry a total load per foot of 800 pounds. Enter the table, page 276, and for the given span and depth the safe total per inch wide per foot long is 89.6 pounds. The necessary width therefore equals  $\frac{800}{89.6} = 9$  inches. The required area of the bottom bars =  $0.1540 \times 9 = 1.386$  square inches and two No. 8 frames should be used.

Note that these tables were computed on the basis of  $\frac{1}{10} wl^2$  and the stress per square inch on the concrete and steel not exceeding 650 and 16,000 pounds.

On the basis of  $\frac{1}{8} wl^2$  use  $\frac{4}{5}$  the tabulated values and on the basis of  $\frac{1}{12} wl^2$  use  $\frac{5}{6}$  of said values.

PITTSBURGH STEEL PRODUCTS COMPANY

Rectangular Beams

Safe Total Load in Pounds per Inch Wide per Foot  
Long of Beams

Span Ft. In.	Area of Steel per Inch Wide of Beams								
	0.0423	0.0461	0.0500	0.0538	0.0577	0.0615	0.0654	0.0692	0.0731
	Net Depth d of Beam in Inches								
	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
4-0	169.4	201.6	. . .	. . .	. . .	. . .	. . .	. . .	. . .
4-6	133.8	159.3	186.9	. . .	. . .	. . .	. . .	. . .	. . .
5-0	108.4	129.0	151.4	175.6	201.6	. . .	. . .	. . .	. . .
5-6	89.6	106.6	125.1	148.4	166.6	189.6	. . .	. . .	. . .
6-0	75.3	89.6	105.2	122.0	140.0	159.3	179.8	201.6	. . .
6-6	64.2	76.4	89.6	103.9	119.3	135.7	153.2	171.8	191.4
7-0	55.3	65.8	77.3	89.6	102.9	117.0	132.1	148.1	165.0
7-6	48.2	57.3	67.3	78.0	89.6	102.0	115.1	129.0	143.8
8-0	42.4	50.4	59.2	68.6	78.8	89.6	101.2	113.4	126.4
8-6	37.5	44.7	52.4	60.8	69.8	79.4	89.6	100.5	111.9
9-0	33.5	39.8	46.7	54.2	62.2	70.8	79.9	89.6	99.8
9-6	. .	35.7	42.0	48.7	55.9	63.5	71.7	80.4	89.6
10-0	. .	32.3	37.9	43.9	50.4	57.3	64.7	72.6	80.9
10-6	. .	. .	34.3	39.8	45.7	52.0	58.7	65.8	73.4
11-0	. .	. .	. .	36.3	41.7	47.4	53.5	60.0	66.8
11-6	. .	. .	. .	33.2	38.1	43.4	49.0	54.9	61.1
12-0	. .	. .	. .	. .	35.0	39.8	45.0	50.4	56.2
12-6	. .	. .	. .	. .	32.3	36.7	41.4	46.5	51.8
13-0	. .	. .	. .	. .	. .	33.9	38.3	43.0	47.9
13-6	. .	. .	. .	. .	. .	. .	35.5	39.8	44.4
14-0	. .	. .	. .	. .	. .	. .	33.0	37.0	41.3
14-6	. .	. .	. .	. .	. .	. .	. .	34.5	38.5
15-0	. .	. .	. .	. .	. .	. .	. .	32.3	35.9
15-6	. .	. .	. .	. .	. .	. .	. .	. .	33.7

This table was computed on the basis of  $M = \frac{1}{10} w l^2$

PITTSBURGH STEEL PRODUCTS COMPANY

Rectangular Beams—Continued

Safe Total Load in Pounds per Inch Wide per Foot Long of Beams

Span Ft.In.	Area of Steel per Inch Wide of Beams								
	0.0769	0.0808	0.0846	0.0885	0.0923	0.0961	0.1000	0.1038	0.1077
	Net Depth d of Beam in Inches								
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
7-0	182.9	201.6	.. . .	.. . .	.. . .	.. . .	.. . .	.. . .	.. . .
7-6	159.3	175.6	192.8	.. . .	.. . .	.. . .	.. . .	.. . .	.. . .
8-0	140.0	154.4	169.4	185.2	201.6	.. . .	.. . .	.. . .	.. . .
8-6	124.0	136.7	150.1	164.0	178.6	193.8	.. . .	.. . .	.. . .
9-0	110.6	122.0	133.9	146.3	159.3	172.8	186.9	201.6	.. . .
9-6	99.3	109.5	120.1	131.3	143.0	155.1	167.8	180.9	194.6
10-0	89.6	98.8	108.4	118.5	129.0	140.0	151.4	163.3	175.6
10-6	81.3	89.6	98.3	107.5	117.0	127.0	137.3	148.1	159.3
11-0	74.1	81.6	89.6	97.9	106.6	115.7	125.1	135.0	145.1
11-6	67.8	74.7	82.0	89.6	97.6	105.9	114.5	123.5	132.8
12-0	62.2	68.6	75.3	82.3	89.6	97.2	105.2	113.4	122.0
12-6	57.3	63.2	69.4	75.8	82.6	89.6	96.9	104.5	112.4
13-0	53.0	58.5	64.2	70.1	76.4	82.8	89.6	96.6	103.9
13-6	49.2	54.2	59.5	65.0	70.8	76.8	83.1	89.6	96.4
14-0	45.7	50.4	55.3	60.5	65.8	71.4	77.3	83.3	89.6
14-6	42.6	47.0	51.6	56.4	61.4	66.6	72.0	77.7	83.5
15-0	39.8	43.9	48.2	52.7	57.3	62.2	67.3	72.6	78.1
15-6	37.3	41.1	45.1	49.3	53.7	58.3	63.0	68.0	73.1
16-0	35.0	38.6	42.4	46.3	50.4	54.7	59.2	63.8	68.6
16-6	32.9	36.3	39.8	43.5	47.4	51.4	55.6	60.0	64.5
17-0	..	34.2	37.5	41.0	44.7	48.4	52.4	56.5	60.8
17-6	..	32.3	35.4	38.7	42.1	45.7	49.4	53.3	57.3
18-0	..	..	33.5	36.6	39.8	43.2	46.7	50.4	54.2
18-6	..	..	..	34.6	37.7	40.9	44.2	47.7	51.3
19-0	..	..	..	32.8	35.7	38.8	42.0	45.2	48.7
19-6	..	..	..	..	33.9	36.8	39.8	43.0	46.2
20-0	..	..	..	..	32.3	35.0	37.9	40.8	43.9
21-0	..	..	..	..	..	31.8	34.3	37.0	39.8
22-0	..	..	..	..	..	..	..	33.7	36.3
23-0	..	..	..	..	..	..	..	..	33.2

This table was computed on the basis of  $M = \frac{1}{10} wl^2$

PITTSBURGH STEEL PRODUCTS COMPANY

Rectangular Beams—Continued

Safe Total Load in Pounds per Inch Wide per Foot Long of Beams

Span Ft.In.	Area of Steel per Inch Wide of Beams								
	0.1115	0.1150	0.1190	0.1230	0.1270	0.1310	0.1350	0.1380	0.1420
	Net Depth d of Beam in Inches								
	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5
10-0	188.4	201.6	...	...	...	...	...	...	...
10-6	170.9	182.9	195.3	...	...	...	...	...	...
11-0	155.7	166.6	177.9	189.6	201.6	...	...	...	...
11-6	142.4	152.4	162.8	173.4	184.5	195.8	...	...	...
12-0	130.8	140.0	149.5	159.3	169.4	179.8	190.6	201.6	...
12-6	120.6	129.0	137.8	146.8	156.1	165.7	175.6	185.8	196.3
13-0	111.5	119.3	127.4	135.7	144.3	153.2	162.4	171.8	181.5
13-6	103.4	110.6	118.1	125.9	133.9	142.1	150.6	159.3	168.3
14-0	96.1	102.9	109.8	117.0	124.5	132.1	140.0	148.1	156.5
14-6	89.6	95.9	102.4	109.1	116.0	123.2	130.5	138.1	145.9
15-0	83.7	89.6	95.7	102.0	108.4	115.1	122.0	129.0	136.3
15-6	78.4	83.9	89.6	95.5	101.5	107.8	114.2	120.8	127.6
16-0	73.6	78.8	84.1	89.6	95.3	101.2	107.2	113.4	119.8
16-6	69.2	74.1	79.1	84.3	89.6	95.1	100.8	106.6	112.6
17-0	65.2	69.8	74.5	79.4	84.4	89.6	95.0	100.5	106.1
17-6	61.5	65.8	70.3	74.9	79.7	84.6	89.6	94.8	100.1
18-0	58.1	62.2	66.4	70.8	75.3	79.9	84.7	89.6	94.7
18-6	55.0	58.9	62.9	67.0	71.3	75.7	80.2	84.8	89.6
19-0	52.2	55.9	59.6	63.5	67.6	71.7	76.0	80.4	85.0
19-6	49.5	53.0	56.6	60.3	64.2	68.1	72.2	76.4	80.7
20-0	47.1	50.4	53.8	57.3	61.0	64.7	68.6	72.6	76.7
21-0	42.7	45.7	48.8	52.0	55.3	58.7	62.2	65.8	69.5
22-0	38.9	41.7	44.5	47.4	50.4	53.5	56.7	60.0	63.4
23-0	35.6	38.1	40.7	43.4	46.1	49.0	51.9	54.9	58.0
24-0	33.7	35.0	37.4	39.8	42.4	45.0	47.6	50.4	53.2
25-0	..	32.3	34.4	36.7	39.0	41.4	43.9	46.5	49.1
26-0	..	..	31.8	33.9	36.1	38.3	40.6	43.0	45.4
27-0	..	..	..	..	33.5	35.5	37.6	39.8	42.1
28-0	..	..	..	..	..	33.0	35.0	37.0	39.1
29-0	..	..	..	..	..	..	32.6	34.5	36.5
30-0	..	..	..	..	..	..	..	32.3	34.1
31-0	..	..	..	..	..	..	..	..	31.9

This table was computed on the basis of  $M = \frac{1}{10} wl^2$

PITTSBURGH STEEL PRODUCTS COMPANY

Rectangular Beams—Continued

Safe Total Load in Pounds per Inch Wide per Foot Long of Beams

Span Ft.in.	Area of Steel per Inch Wide of Beams								
	0.1460	0.1500	0.1540	0.1610	0.1690	0.1770	0.1850	0.1920	0.2000
	Net Depth d of Beam in Inches								
	19.0	19.5	20.0	21.0	22.0	23.0	24.0	25.0	26.0
13-0	191.4	201.6	.. .	.. .	.. .	.. .	.. .	.. .	.. .
13-6	177.5	186.9	196.7	.. .	.. .	.. .	.. .	.. .	.. .
14-0	165.0	173.8	182.9	201.6	.. .	.. .	.. .	.. .	.. .
14-6	153.8	162.1	170.5	187.9	206.3	.. .	.. .	.. .	.. .
15-0	143.8	151.4	159.3	175.6	192.7	.. .	.. .	.. .	.. .
15-6	134.6	141.8	149.2	164.5	180.5	197.3	.. .	.. .	.. .
16-0	126.4	133.1	140.0	154.4	169.4	185.2	201.6	.. .	.. .
16-6	118.8	125.1	131.6	145.1	159.3	174.1	189.6	205.7	.. .
17-0	111.9	117.9	124.0	136.7	150.1	164.0	178.6	193.8	.. .
17-6	105.6	111.3	117.0	129.0	141.6	154.8	168.5	182.9	197.8
18-0	99.8	105.2	110.6	122.0	133.9	146.3	159.3	172.8	186.9
18-6	94.5	99.6	104.8	115.5	126.7	138.5	150.8	163.6	177.0
19-0	89.6	94.4	99.3	109.5	120.1	131.3	143.0	155.1	167.8
19-6	85.1	89.6	94.3	103.9	114.1	124.7	135.7	147.3	159.3
20-0	80.9	85.2	89.6	98.8	108.4	118.5	129.0	140.0	151.4
21-0	73.4	77.3	81.3	89.6	98.3	107.5	117.0	127.0	137.3
22-0	66.8	70.4	74.1	81.6	89.6	97.9	106.6	115.7	125.1
23-0	61.1	64.4	67.8	74.7	82.0	89.6	97.6	105.9	114.5
24-0	56.2	59.2	62.2	68.6	75.3	82.3	89.6	97.2	105.2
25-0	51.8	54.5	57.3	63.2	69.4	75.8	82.6	89.6	96.9
26-0	47.9	50.4	53.0	58.5	64.2	70.1	76.4	82.8	89.6
27-0	44.4	46.7	49.2	54.2	59.5	65.0	70.8	76.8	83.1
28-0	41.3	43.5	45.7	50.4	55.3	60.5	65.8	71.4	77.3
29-0	38.5	40.5	42.6	47.0	51.6	56.4	61.4	66.0	72.0
30-0	35.9	37.9	39.8	43.9	48.2	52.7	57.3	62.2	67.3
31-0	33.7	35.5	37.3	41.1	45.1	49.3	53.7	58.3	63.0
32-0	31.6	33.3	35.0	38.6	42.4	46.3	50.4	54.7	59.2
33-0	..	31.3	32.9	36.3	39.8	43.5	47.4	51.4	55.6
34-0	..	..	31.0	34.2	37.5	41.0	44.7	48.4	52.4
35-0	..	..	..	32.3	35.4	38.7	42.1	45.7	49.4
36-0	..	..	..	..	33.5	36.6	39.8	43.2	46.7
37-0	..	..	..	..	31.7	34.6	37.7	40.9	44.2
38-0	..	..	..	..	..	32.8	35.7	38.8	42.0
39-0	..	..	..	..	..	31.2	33.9	36.8	39.8
40-0	..	..	..	..	..	..	32.3	35.0	37.9
41-0	..	..	..	..	..	..	30.7	33.3	36.0
42-0	..	..	..	..	..	..	..	31.8	34.3
43-0	..	..	..	..	..	..	..	..	32.8
44-0	..	..	..	..	..	..	..	..	31.3

This table was computed on the basis of  $M = \frac{1}{10} wl^2$

PITTSBURGH STEEL PRODUCTS COMPANY

Rectangular Beams—Continued

Safe Total Load in Pounds per Inch Wide per Foot Long of Beams

Span Ft.In.	Area of Steel per Inch Wide of Beams								
	0.2080	0.2151	0.2230	0.2310	0.2384	0.2460	0.2540	0.2615	0.2692
	Net Depth d of Beam in Inches								
	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
18-0	201.6	...	...	...	...	...	...	...	...
18-6	190.9	205.3	...	...	...	...	...	...	...
19-0	180.9	194.6	...	...	...	...	...	...	...
19-6	171.8	184.7	198.2	...	...	...	...	...	...
20-0	163.3	175.6	188.4	201.6	...	...	...	...	...
21-0	148.1	159.3	170.9	182.9	195.3	208.1	...	...	...
22-0	135.0	145.1	155.7	166.6	177.9	189.6	201.6	...	...
23-0	123.5	132.8	142.4	152.4	162.8	173.4	184.5	195.8	207.5
24-0	113.4	122.0	130.8	140.0	149.5	159.3	169.4	179.8	190.6
25-0	104.5	112.4	120.6	129.0	137.8	146.8	156.1	165.7	175.6
26-0	96.6	103.9	111.5	119.3	127.4	135.7	144.3	153.2	162.4
27-0	89.6	96.4	103.4	110.6	118.1	125.9	133.9	142.1	150.6
28-0	83.3	89.6	96.1	102.9	109.8	117.0	124.5	132.1	140.0
29-0	77.7	83.5	89.6	95.9	102.4	109.1	116.0	123.2	130.5
30-0	72.6	78.1	83.7	89.6	95.7	102.0	108.4	115.1	122.0
31-0	68.0	73.1	78.4	83.9	89.6	95.5	101.5	107.8	114.2
32-0	63.8	68.6	73.6	78.8	84.1	89.6	95.3	101.2	107.2
33-0	60.0	64.5	69.2	74.1	79.1	84.3	89.6	95.1	100.8
34-0	56.5	60.8	65.2	69.8	74.5	79.4	84.4	89.6	95.0
35-0	53.3	57.3	61.5	65.8	70.3	74.9	79.7	84.6	89.6
36-0	50.4	54.2	58.1	62.2	66.4	70.8	75.3	79.9	84.7
37-0	47.7	51.3	55.0	58.9	62.9	67.0	71.3	75.7	80.2
38-0	45.2	48.7	52.2	55.9	59.6	63.5	67.6	71.7	76.0
39-0	43.0	46.2	49.5	53.0	56.6	60.3	64.2	68.1	72.2
40-0	40.8	43.9	47.1	50.4	53.8	57.3	61.0	64.7	68.6
41-0	38.9	41.8	44.8	48.0	51.2	54.6	58.1	61.6	65.3
42-0	37.0	39.8	42.7	45.7	48.8	52.0	55.3	58.7	62.2
43-0	35.3	38.0	40.8	43.6	46.6	49.6	52.8	56.0	59.4
44-0	33.7	36.3	38.9	41.7	44.5	47.4	50.4	53.5	56.7
45-0	32.3	34.7	37.2	39.8	42.5	45.3	48.2	51.2	54.2
46-0	30.9	33.2	35.6	38.1	40.7	43.4	46.1	49.0	51.9
47-0	..	31.8	34.1	36.5	39.0	41.5	44.2	46.9	49.7
48-0	..	..	32.7	35.0	37.4	39.8	42.4	45.0	47.6
49-0	..	..	31.4	33.6	35.9	38.2	40.6	43.1	45.7
50-0	..	..	..	32.3	34.4	36.7	39.0	41.4	43.9

This table was computed on the basis of  $M = \frac{1}{10} wl^2$

PITTSBURGH STEEL PRODUCTS COMPANY

Rectangular Beams—Concluded

Total Load in Pounds per Inch Wide per Foot Long  
of Beams

Span Ft.,In.	Area of Steel per Inch Wide of Beams									
	0.2770	0.2845	0.2922	0.3000	0.3076	0.3153	0.3230	0.3307	0.3384	0.3460
	Net Depth d of Beam in Inches									
	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0	45.0
24-0	201.6	...	...	...	...	...	...	...	...	...
25-0	185.8	196.3	207.0	...	...	...	...	...	...	...
26-0	171.8	181.5	191.4	201.6	...	...	...	...	...	...
27-0	159.3	168.3	177.5	186.9	196.7	206.6	...	...	...	...
28-0	148.1	156.5	165.0	173.8	182.9	192.1	201.6	...	...	...
29-0	138.1	145.9	153.8	162.1	170.5	179.1	187.9	197.0	206.3	...
30-0	129.0	136.3	143.8	151.4	159.3	167.4	175.6	184.1	192.7	201.6
31-0	120.8	127.6	134.6	141.8	149.2	156.7	164.5	172.4	180.5	188.8
32-0	113.4	119.8	126.4	133.1	140.0	147.1	154.4	161.8	169.4	177.2
33-0	106.6	112.6	118.8	125.1	131.6	138.3	145.1	152.1	159.3	166.6
34-0	100.5	106.1	111.9	117.9	124.0	130.3	136.7	143.3	150.1	157.0
35-0	94.8	100.1	105.6	111.3	117.0	123.0	129.0	135.2	141.6	148.1
36-0	89.6	94.7	99.8	105.2	110.6	116.2	122.0	127.8	133.9	140.0
37-0	84.8	89.6	94.5	99.6	104.7	110.0	115.5	121.0	126.7	132.5
38-0	80.4	85.0	89.6	94.4	99.3	104.3	109.5	114.7	120.1	125.7
39-0	76.4	80.7	85.1	89.6	94.3	99.0	103.9	108.9	114.1	119.3
40-0	72.6	76.7	80.9	85.2	89.6	94.1	98.8	103.5	108.4	113.4
41-0	69.1	73.0	77.0	81.1	85.3	89.6	94.0	98.6	103.2	107.9
42-0	65.8	69.5	73.4	77.3	81.3	85.4	89.6	93.9	98.3	102.9
43-0	62.8	66.3	70.0	73.7	77.5	81.5	85.5	89.6	93.8	98.1
44-0	60.0	63.4	66.8	70.4	74.0	77.8	81.6	85.6	89.6	93.7
45-0	57.3	60.6	63.9	67.3	70.8	74.4	78.1	81.8	85.7	89.6
46-0	54.9	58.0	61.1	64.4	67.8	71.2	74.7	78.3	82.0	85.8
47-0	52.6	55.5	58.6	61.7	64.9	68.2	71.6	75.0	78.5	82.1
48-0	50.4	53.2	56.2	59.2	62.2	65.4	68.6	71.9	75.3	78.8
49-0	48.4	51.1	53.9	56.8	59.7	62.7	65.8	69.0	72.3	75.6
50-0	46.5	49.1	51.8	54.5	57.3	60.3	63.2	66.3	69.4	72.6

This table was computed on the basis of  $M = \frac{1}{10} wl^2$



## Explanation of Tables for Lintels

To design a beam using these tables, find the total load per foot of beam exclusive of the weight of the lintel, and having arbitrarily selected a depth for a given span, divide this load by the tabulated safe load corresponding to the depth and span. This will give the necessary width of beam in inches. Now multiply the area at the top of the column of the selected depth by the necessary width of beam, and the product so found will give the required area of the bottom reinforcement. Select the reinforcing frames on page 21, corresponding to the above area.

For an example of application, see explanation of "Tables for Rectangular Beams." Note that these tables were computed on the basis  $\frac{1}{8} wl^2$  and the stress per square inch on the concrete and steel not exceeding 650 and 16,000 pounds.

## Lintels—Rectangular Beams

**Safe Live Load in Pounds per Inch Wide per Foot Long  
of Beam**

Span Ft. In.	Area of Steel per Inch Wide of Beam								
	0.0846	0.0885	0.0423	0.0461	0.0500	0.0538	0.0577	0.0615	0.0654
	Total Depth D of Beam, Inches								
	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5
3-0	153.8								
3-6	111.0	138.3							
4-0	83.2	104.0	127.0	152.3					
4-6	64.2	80.5	98.5	118.4	140.0				
5-0	50.6	63.7	78.2	94.2	111.6	130.5	150.8		
5-6	40.5	51.3	63.2	76.3	90.6	108.7	122.8	140.7	
6-0	32.8	41.8	51.7	62.7	74.6	87.6	101.5	116.4	132.4
6-6	26.8	34.4	42.8	52.1	62.2	73.2	84.9	97.6	111.1
7-0	22.1	28.6	35.7	43.7	52.3	61.7	71.8	82.6	94.2
7-6	18.3	23.9	30.1	36.9	44.3	52.4	61.2	70.6	80.6
8-0		20.0	25.4	31.3	37.8	44.9	52.5	60.7	69.4
8-6		16.8	21.5	26.7	32.4	38.6	45.3	52.5	60.2
9-0			18.3	22.9	27.9	33.4	39.3	45.6	52.4
9-6				19.6	24.1	28.9	34.2	39.8	45.9
10-0				16.8	20.8	25.1	29.8	34.9	40.3
10-6					18.5	21.9	26.1	30.6	35.5
11-0						19.1	22.8	26.9	31.3
11-6						16.6	20.0	23.7	27.7
12-0							17.5	20.4	24.5
12-6							15.3	18.4	21.6
13-0								16.1	19.1
13-6									16.9
14-0									14.9

This table was computed on the basis of  $M = \frac{1}{8} w l^2$

PITTSBURGH STEEL PRODUCTS COMPANY

Lintels—Rectangular Beams—Continued  
 Safe Live Load in Pounds per Inch Wide per Foot Long  
 of Beam

Span Ft. In.	Area of Steel per Inch Wide of Beam								
	0.0692	0.0731	0.0769	0.0808	0.0846	0.0885	0.0923	0.0961	0.1000
	Total Depth D of Beam, Inches								
	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0
6-0	149.3								
6-6	125.4	140.6							
7-0	106.5	119.5	133.3	147.8					
7-6	91.2	102.5	114.4	127.0	140.0				
8-0	78.7	88.6	99.0	110.0	119.5	133.6	146.3		
8-6	68.4	77.0	86.2	95.9	106.0	116.7	127.9	139.5	
9-0	59.7	67.4	75.5	84.1	93.1	104.5	112.4	122.8	133.6
9-6	52.3	59.2	66.4	74.1	82.1	90.5	99.4	108.6	118.2
10-0	46.1	52.2	58.7	65.5	72.7	80.3	88.2	96.5	105.1
10-6	40.7	46.2	52.0	58.2	64.7	71.5	78.6	86.1	93.9
11-0	36.0	41.0	46.2	51.8	57.7	63.8	70.3	77.1	84.1
11-6	31.9	36.4	41.2	46.3	51.6	57.2	63.0	70.3	75.6
12-0	28.3	32.4	36.8	41.4	46.2	51.3	56.7	62.3	68.1
12-6	25.2	28.9	32.9	37.1	41.5	46.2	51.1	56.2	61.5
13-0	22.4	25.8	29.4	33.3	37.3	41.6	46.1	50.8	55.7
13-6	19.9	23.0	26.3	29.9	33.6	37.5	41.6	46.0	50.5
14-0	17.6	20.5	23.6	26.8	30.2	33.9	37.7	41.6	45.8
14-6	15.6	18.3	21.1	24.1	27.3	30.6	34.1	37.8	41.6
15-0	13.8	16.3	18.9	21.6	24.5	27.6	30.9	34.3	37.8
15-6		14.4	16.8	19.4	22.1	25.0	28.0	31.1	34.4
16-0			15.0	17.4	19.9	22.5	25.3	28.3	31.3
16-6			13.3	15.5	17.9	20.3	22.6	25.6	28.5
17-0				13.8	16.0	18.3	20.7	23.3	25.9
17-6				12.3	14.3	16.5	18.7	21.1	23.5
18-0					12.8	14.8	16.9	19.1	21.4
18-6						13.2	15.2	17.2	19.4
19-0						11.8	13.6	15.5	17.6
19-6							12.1	14.0	15.0
20-0							10.8	12.5	14.3
21-0								9.9	11.5

This table was computed on the basis of  $M = \frac{1}{8} wl^2$

PITTSBURGH STEEL PRODUCTS COMPANY

Lintels—Rectangular Beams—Continued  
 Safe Live Load in Pounds per Inch Wide per Foot Long  
 of Beam

Span Ft. In.	Area of Steel per Inch Wide of Beam								
	0.1088	0.1077	0.1115	0.1150	0.1190	0.1230	0.1270	0.1310	0.1350
	Total Depth D of Beam, Inches								
	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5
9-0	144.8	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
9-6	128.3	138.7	. . .	. . .	. . .	. . .	. . .	. . .	. . .
10-0	114.1	123.5	133.1	143.3	. . .	. . .	. . .	. . .	. . .
10-6	112.0	110.4	119.2	128.3	137.7	. . .	. . .	. . .	. . .
11-0	91.5	99.1	107.1	115.3	123.8	132.7	141.8	. . .	. . .
11-6	82.3	89.2	96.5	104.0	111.7	119.8	128.1	136.6	. . .
12-0	74.2	80.6	87.2	94.0	101.1	108.4	116.0	123.9	131.9
12-6	67.1	72.9	79.0	85.2	91.7	98.4	105.4	112.6	120.0
13-0	60.8	66.1	71.7	77.4	83.4	89.6	96.0	102.6	109.4
13-6	55.2	60.1	65.2	70.5	76.0	81.7	86.6	93.7	100.0
14-0	50.1	54.7	59.4	64.3	69.4	74.6	80.1	85.7	91.5
14-6	45.6	49.8	54.2	59.7	63.4	68.3	73.3	78.5	83.9
15-0	41.6	45.4	49.5	53.7	58.0	62.6	67.2	71.1	77.1
15-6	37.9	41.5	45.2	49.1	53.2	57.4	61.7	66.2	70.9
16-0	34.5	37.9	41.4	45.0	48.8	52.7	56.7	60.9	65.3
16-6	31.5	34.6	37.9	41.2	44.8	48.4	52.2	56.1	60.1
17-0	28.7	31.6	34.6	37.8	41.1	44.5	48.0	51.7	55.5
17-6	25.2	28.9	31.7	34.7	37.7	40.9	44.2	47.6	51.2
18-0	23.8	26.4	29.0	31.8	34.7	37.6	40.7	43.9	47.3
18-6	21.7	24.0	26.5	29.1	31.8	34.6	37.5	40.5	43.6
19-0	19.7	21.9	24.3	26.7	29.2	31.8	34.6	37.4	40.3
19-6	17.9	20.0	22.1	24.4	26.8	29.3	31.8	34.5	37.2
20-0	16.2	18.1	20.2	22.3	24.6	26.9	29.3	31.8	34.4
21-0	13.1	14.9	16.7	18.6	20.5	22.6	24.7	27.0	29.3
22-0	10.5	12.0	13.6	15.3	17.1	18.9	20.8	22.8	24.9
23-0	. . .	9.6	11.0	12.5	14.1	15.7	17.4	19.2	21.0
24-0	. . .	. . .	9.5	10.0	11.5	12.9	14.4	16.0	17.6
25-0	. . .	. . .	. . .	7.8	9.1	10.4	11.7	13.1	14.6
26-0	. . .	. . .	. . .	. . .	7.0	8.1	9.4	10.6	12.0
27-0	. . .	. . .	. . .	. . .	. . .	. . .	7.3	8.4	9.6
28-0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	6.4	7.5
29-0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	5.6

This table was computed on the basis of  $M = \frac{1}{8} wl^2$

PITTSBURGH STEEL PRODUCTS COMPANY

Lintels—Rectangular Beams—Continued

Safe Live Load in Pounds per Inch Wide per Foot Long of Beam

Span Ft. In.	Area of Steel per Inch Wide of Beam								
	0.1380	0.1420	0.1460	0.1500	0.1540	0.1610	0.1690	0.1770	0.1850
	Total Depth D of Beam, Inches								
	21.0	21.5	22.0	22.5	23.0	24.0	25.0	26.0	27.0
12-0	140.3								
12-6	127.6	135.5							
13-0	116.4	123.7	131.1	138.8					
13-6	106.4	113.1	120.0	127.1	134.3				
14-0	97.5	103.7	110.0	116.6	123.3	137.3			
14-6	89.5	95.2	101.1	107.1	113.4	126.4	140.0		
15-0	82.2	87.5	93.0	98.6	104.4	116.5	129.2		
15-6	75.7	80.6	85.7	90.9	96.3	107.6	119.4	131.8	
16-0	69.7	74.3	79.1	84.0	89.0	99.5	110.5	122.1	134.3
16-6	64.3	68.6	73.0	77.6	82.3	92.1	102.4	113.3	124.7
17-0	59.4	63.4	67.5	71.8	76.2	85.4	95.0	105.2	115.9
17-6	54.8	58.6	62.5	66.5	70.6	79.2	88.3	97.8	107.8
18-0	50.7	54.2	57.9	61.6	65.5	73.6	82.1	91.0	100.4
18-6	46.9	50.2	53.6	57.1	60.8	68.4	76.4	84.8	93.6
19-0	43.3	46.0	49.7	53.0	56.4	63.6	71.1	79.0	87.4
19-6	40.1	43.0	46.1	49.2	52.4	59.1	66.2	73.7	81.6
20-0	37.1	39.8	42.7	45.6	48.7	55.0	61.7	68.8	76.2
21-0	31.7	34.1	36.7	39.3	42.0	47.7	53.7	60.0	66.6
22-0	27.0	29.2	31.5	33.8	36.2	41.3	46.7	52.3	58.3
23-0	22.9	24.9	26.9	29.0	31.2	35.8	40.6	45.7	51.0
24-0	19.3	21.1	22.9	24.8	26.8	30.9	35.2	39.8	44.7
25-0	16.2	17.8	19.4	21.1	22.9	26.6	30.5	34.7	39.1
26-0	13.4	14.8	16.3	17.8	19.4	22.8	26.3	30.1	34.1
27-0	10.9	12.2	13.5	14.9	16.3	19.4	22.6	26.0	29.6
28-0	8.6	9.8	11.0	12.3	13.6	16.3	19.2	22.4	25.7
29-0	6.6	7.7	8.8	9.9	11.1	13.6	16.3	19.1	22.1
30-0	4.8	5.8	6.8	7.8	8.9	11.1	13.5	16.1	18.9

This table was computed on the basis of  $M = \frac{1}{8} wl^2$

**Lintels—Rectangular Beams—Continued**  
**Safe Live Load in Pounds per Inch Wide per Foot Long**  
**of Beam**

Span Ft.In.	Area of Steel per Inch Wide of Beam								
	0.1920	0.2000	0.2080	0.2150	0.2230	0.2310	0.2380	0.2460	0.2540
	Total Depth D of Beam, Inches								
	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0	36.0
16-6	136.6	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
17-0	127.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
17-6	118.3	129.2	. . .	. . .	. . .	. . .	. . .	. . .	. . .
18-0	110.3	120.6	131.3	. . .	. . .	. . .	. . .	. . .	. . .
18-6	102.9	112.7	122.7	133.2	. . .	. . .	. . .	. . .	. . .
19-0	96.1	105.2	114.8	124.7	. . .	. . .	. . .	. . .	. . .
19-6	89.8	98.4	107.4	116.8	126.5	. . .	. . .	. . .	. . .
20-0	84.0	92.1	100.6	109.5	118.7	128.3	. . .	. . .	. . .
21-0	78.6	80.9	88.5	96.4	104.7	113.3	122.2	131.4	. . .
22-0	64.6	71.1	78.0	85.1	92.6	100.3	108.3	116.7	125.3
23-0	56.7	62.6	68.8	75.2	82.0	89.0	96.2	103.8	111.6
24-0	49.8	55.1	60.7	66.6	72.7	79.0	85.6	92.4	99.5
25-0	43.7	48.5	53.6	58.9	64.5	70.2	76.2	82.4	88.9
26-0	38.3	42.7	47.3	52.1	57.2	62.4	67.9	73.6	79.5
27-0	33.5	37.5	41.7	46.1	50.7	55.5	60.5	65.7	71.1
28-0	29.1	32.8	36.6	40.7	44.9	49.3	53.9	58.6	63.6
29-0	25.2	28.6	32.1	35.8	39.7	43.7	47.9	52.3	56.8
30-0	21.8	24.8	28.1	31.4	35.0	38.7	42.5	46.6	50.7

Span Ft.In.	Area of Steel per Inch Wide of Beam								
	0.2610	0.2690	0.2770	0.2850	0.2920	0.3000	0.3080	0.3150	0.3230
	Depth D of Beam, Inches								
	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0	45.0
23-0	119.6	128.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .
24-0	106.9	114.4	122.3	. . .	. . .	. . .	. . .	. . .	. . .
25-0	95.6	102.5	109.6	117.0	126.6	. . .	. . .	. . .	. . .
26-0	85.6	91.9	98.4	105.2	112.1	119.3	. . .	. . .	. . .
27-0	76.7	82.5	88.4	94.6	101.0	107.6	114.3	121.3	. . .
28-0	68.7	74.0	79.5	85.2	91.0	97.1	103.3	109.7	116.3
29-0	61.5	66.4	71.5	76.7	82.1	87.6	93.4	99.3	105.4
30-0	55.1	59.6	64.2	69.0	74.1	79.1	84.4	89.9	95.5

These tables were computed on the basis of  $M = \frac{1}{8} wl^2$

## Safe Loads in Pounds for Square Concrete Columns

$\frac{1}{2}$  Per Cent. Reinforcement

Size of Column Inches	Area of Steel Required Sq. Inches	Stress in Concrete Pounds per Square Inch		
		400	500	600
10x10	0.82	27400	34240	41100
12x12	0.50	42800	53500	64200
14x14	0.72	61600	77000	92500
16x16	0.98	83900	104900	125800
18x18	1.28	109600	137000	164400
20x20	1.45	128800	154500	185400
22x22	1.62	138670	173340	208010
24x24	2.00	171200	214000	256800
26x26	2.42	207150	258940	310730
28x28	2.88	246530	308160	369790
30x30	3.38	286830	361660	433990
32x32	3.92	335550	419440	503330
34x34	4.50	385200	481500	577800
36x36	5.12	438270	547340	657410

### 1 Per Cent. Reinforcement

10x10	0.64	29200	36500	43800
12x12	1.00	45600	57000	68400
14x14	1.44	65700	82100	98500
16x16	1.96	89400	111700	134000
18x18	2.56	116700	145900	175100
20x20	2.89	131900	164000	197500
22x22	3.24	147740	184680	221620
24x24	4.00	182400	228000	273600
26x26	4.84	220700	275880	331060
28x28	5.76	262660	328320	393980
30x30	6.76	308260	385320	462380
32x32	7.84	357500	446880	536260
34x34	9.00	410400	513000	615600
36x36	10.24	466940	583680	700420

## Safe Loads in Pounds for Square Concrete Columns

### 1½ Per Cent. Reinforcement

Size of Column Inches	Area of Steel Required Sq. Inches	Stress in Concrete Pounds per Square Inch		
		400	500	600
10x10	0.96	31000	38700	46500
12x12	1.50	48400	60500	72600
14x14	2.16	69700	87100	104500
16x16	2.94	95000	118600	142800
18x18	3.84	123900	154900	185900
20x20	4.84	139800	174700	210000
22x22	4.86	156820	196020	235220
24x24	6.00	193600	242000	290400
26x26	7.26	234260	292820	351880
28x28	8.64	278780	348480	418180
30x30	10.14	327180	408980	490780
32x32	11.76	379460	474320	569180
34x34	13.50	435600	544500	653400
36x36	15.36	495620	619520	743420

### 2 Per Cent. Reinforcement

10x10	1.28	32760	40960	49200
12x12	2.00	51200	64000	76800
14x14	2.88	73700	92200	110600
16x16	3.92	100800	125400	150500
18x18	5.12	131100	163800	196600
20x20	5.78	147900	184900	221800
22x22	6.48	165890	207360	248880
24x24	8.00	204800	256000	307200
26x26	9.68	247810	309760	371710
28x28	11.52	294910	368640	442370
30x30	13.52	346110	432640	519170
32x32	15.68	401410	501760	602110
34x34	18.00	460800	576000	691200
36x36	20.48	524290	655360	786490



PITTSBURGH STEEL PRODUCTS COMPANY

Safe Loads in Pounds for Square Concrete Columns

2½ Per Cent. Reinforcement

Size of Column Inches	Area of Steel Required Sq. Inches	Stress in Concrete Pounds per Square Inch		
		400	500	600
10x10	1.00	34560	43200	51800
12x12	2.50	54000	67500	81000
14x14	3.60	77800	97200	116800
16x16	4.90	105800	132300	158800
18x18	6.40	138200	172800	207400
20x20	7.23	156000	195000	233900
22x22	8.10	174900	218700	262440
24x24	10.00	216000	270000	324000
26x26	12.10	261360	326700	392040
28x28	14.40	311040	388800	466560
30x30	16.90	365040	456300	547560
32x32	19.60	423360	529200	635040
34x34	22.50	486000	607500	729000
36x36	25.60	552960	691200	829440

3 Per Cent. Reinforcement

10x10	1.92	36400	45400	54600
12x12	3.00	56800	71000	85200
14x14	4.32	81900	102200	122700
16x16	5.88	111800	139100	167000
18x18	7.68	145400	181800	218000
20x20	8.67	164100	205000	246100
22x22	9.72	184000	230000	276000
24x24	12.00	227200	284000	341000
26x26	14.52	275000	343000	412000
28x28	17.28	327100	408500	491000
30x30	20.28	384000	479000	576000
32x32	23.52	445000	556000	668000
34x34	27.00	512000	639000	767000
36x36	30.72	582500	727500	873000

PITTSBURGH STEEL PRODUCTS COMPANY

Safe Loads in Pounds for Square Concrete Columns

3½ Per Cent. Reinforcement

Size of Column Inches	Area of Steel Required Sq. Inches	Stress in Concrete Pounds per Square Inch		
		400	500	600
10x10	2.24	38150	47700	57200
12x12	3.50	59600	74500	89400
14x14	5.04	85800	107200	128800
16x16	6.86	117000	146000	175100
18x18	8.96	152600	190800	228700
20x20	10.12	172300	215200	258900
22x22	11.34	193000	241400	289300
24x24	14.00	228400	298000	357600
26x26	16.94	288300	360500	432000
28x28	20.16	343200	428500	515000
30x30	23.66	403000	504000	604000
32x32	27.44	467000	584000	700000
34x34	31.50	536000	671000	804900
36x36	35.84	611000	764000	916000

4 Per Cent. Reinforcement

10x10	2.56	39900	49900	59800
12x12	4.00	62400	78000	93600
14x14	5.76	89900	112200	134800
16x16	7.84	122200	152800	183400
18x18	10.24	159700	199500	239500
20x20	11.56	181000	225500	270800
22x22	12.96	202000	252900	308600
24x24	16.00	249800	312000	374000
26x26	19.36	302000	377100	452500
28x28	23.04	359400	449000	539000
30x30	27.04	421500	527000	632500
32x32	31.36	488500	611500	734000
34x34	36.00	561000	702000	842400
36x36	40.96	639000	799000	958500

PITTSBURGH STEEL PRODUCTS COMPANY

Safe Loads for Hooped Columns. Stress in Concrete 600 Pounds per Square Inch

Load in Pounds	Diameter, Inches		Total Area of Verticals Inches	Hooping	
	Outside	Core		Size Inches	Pitch Inches
85,500	14	10	1.500	$\frac{1}{8}\Phi$	2
94,400	14	10	1.500	$\frac{1}{8}$	1½
111,700	16	12	1.500	$\frac{1}{8}$	2
122,100	16	12	1.500	$\frac{1}{8}$	1½
148,400	18	14	2.344	$\frac{1}{8}$	2
160,600	18	14	2.344	$\frac{1}{8}$	1½
208,100	20	16	2.344	$\frac{1}{2} \times \frac{1}{4}$	2
230,700	20	16	2.344	$\frac{1}{2} \times \frac{1}{4}$	1½
214,600	20	16	3.125	$\frac{1}{2} \times \frac{1}{4}$	2
237,200	20	16	3.125	$\frac{1}{2} \times \frac{1}{4}$	1½
257,300	22	18	3.375	$\frac{1}{2} \times \frac{1}{4}$	2
282,700	22	18	3.375	$\frac{1}{2} \times \frac{1}{4}$	1½
255,200	22	18	3.125	$\frac{1}{2} \times \frac{1}{4}$	2
280,600	22	18	3.125	$\frac{1}{2} \times \frac{1}{4}$	1½
311,800	24	20	4.594	$\frac{1}{2} \times \frac{1}{4}$	2
340,000	24	20	4.594	$\frac{1}{2} \times \frac{1}{4}$	1½
311,000	24	20	4.500	$\frac{1}{2} \times \frac{1}{4}$	2
339,200	24	20	4.500	$\frac{1}{2} \times \frac{1}{4}$	1½
359,100	26	22	4.500	$\frac{1}{2} \times \frac{1}{4}$	2
390,100	26	22	4.500	$\frac{1}{2} \times \frac{1}{4}$	1½
368,500	26	22	5.625	$\frac{1}{2} \times \frac{1}{4}$	2
399,600	26	22	5.625	$\frac{1}{2} \times \frac{1}{4}$	1½
424,500	28	24	6.125	$\frac{1}{2} \times \frac{1}{4}$	2
458,400	28	24	6.125	$\frac{1}{2} \times \frac{1}{4}$	1½
420,300	28	24	5.625	$\frac{1}{2} \times \frac{1}{4}$	2
454,200	28	24	5.625	$\frac{1}{2} \times \frac{1}{4}$	1½
495,900	30	26	8.000	1 x $\frac{1}{4}$	4
532,600	30	26	8.000	1 x $\frac{1}{4}$	3
498,000	30	26	7.656	1 x $\frac{1}{4}$	4
529,700	30	26	7.656	1 x $\frac{1}{4}$	3
555,200	32	28	8.000	1 x $\frac{1}{4}$	4
594,800	32	28	8.000	1 x $\frac{1}{4}$	3
552,300	32	28	7.656	1 x $\frac{1}{4}$	4
591,900	32	28	7.656	1 x $\frac{1}{4}$	3
636,200	34	30	10.125	1 x $\frac{1}{4}$	4
678,600	34	30	10.125	1 x $\frac{1}{4}$	3
635,200	34	30	10.000	1 x $\frac{1}{4}$	4
677,500	34	30	10.000	1 x $\frac{1}{4}$	3
769,500	36	32	12.656	1 x $\frac{1}{4}$	3
794,500	36	32	15.625	1 x $\frac{1}{4}$	3
822,000	36	32	18.906	1 x $\frac{1}{4}$	3
852,200	36	32	22.500	1 x $\frac{1}{4}$	3
836,400	36	32	15.187	1 x $\frac{1}{8}$	3
866,300	36	32	18.750	1 x $\frac{1}{8}$	3
899,400	36	32	22.687	1 x $\frac{1}{8}$	3
935,600	36	32	27.000	1 x $\frac{1}{8}$	3

PITTSBURGH STEEL PRODUCTS COMPANY

Safe Loads for Hooped Columns. Stress in Concrete 650 Pounds per Square Inch

Load in Pounds	Diameter, Inches		Total Area of Verticals Inches	Hooping	
	Outside	Core		Size Inches	Pitch Inches
91,800	14	10	1.500	$\frac{1}{8}\Phi$	2
101,200	14	10	1.500	$\frac{1}{8}$	1½
123,600	16	12	1.500	$\frac{1}{8}$	2
134,900	16	12	1.500	$\frac{1}{8}$	1½
160,900	18	14	2.344	$\frac{1}{8}$	2
174,000	18	14	2.344	$\frac{1}{8}$	1½
225,600	20	16	2.344	$\frac{1}{2} \times \frac{1}{4}$	2
250,200	20	16	2.344	$\frac{1}{2} \times \frac{1}{4}$	1½
232,700	20	16	3.125	$\frac{1}{2} \times \frac{1}{4}$	2
257,300	20	16	3.125	$\frac{1}{2} \times \frac{1}{4}$	1½
278,900	22	18	3.375	$\frac{1}{2} \times \frac{1}{4}$	2
306,500	22	18	3.375	$\frac{1}{2} \times \frac{1}{4}$	1½
276,600	22	18	3.125	$\frac{1}{2} \times \frac{1}{4}$	2
304,200	22	18	3.125	$\frac{1}{2} \times \frac{1}{4}$	1½
338,000	24	20	4.594	$\frac{1}{2} \times \frac{1}{4}$	2
368,700	24	20	4.594	$\frac{1}{2} \times \frac{1}{4}$	1½
337,200	24	20	4.500	$\frac{1}{2} \times \frac{1}{4}$	2
367,800	24	20	4.500	$\frac{1}{2} \times \frac{1}{4}$	1½
389,200	26	22	4.500	$\frac{1}{2} \times \frac{1}{4}$	2
423,000	26	22	4.500	$\frac{1}{2} \times \frac{1}{4}$	1½
390,500	26	22	5.625	$\frac{1}{2} \times \frac{1}{4}$	2
433,200	26	22	5.625	$\frac{1}{2} \times \frac{1}{4}$	1½
469,400	28	24	6.125	$\frac{1}{2} \times \frac{1}{4}$	2
497,000	28	24	6.125	$\frac{1}{2} \times \frac{1}{4}$	1½
455,600	28	24	5.625	$\frac{1}{2} \times \frac{1}{4}$	2
492,400	28	24	5.625	$\frac{1}{2} \times \frac{1}{4}$	1½
537,500	30	26	8.000	1 x $\frac{1}{4}$	4
577,400	30	26	8.000	1 x $\frac{1}{4}$	3
534,400	30	26	7.656	1 x $\frac{1}{4}$	4
574,200	30	26	7.656	1 x $\frac{1}{4}$	3
601,800	32	28	8.000	1 x $\frac{1}{4}$	4
644,800	32	28	8.000	1 x $\frac{1}{4}$	3
597,700	32	28	7.656	1 x $\frac{1}{4}$	4
641,600	32	28	7.656	1 x $\frac{1}{4}$	3
689,600	34	30	10.125	1 x $\frac{1}{4}$	4
735,600	34	30	10.125	1 x $\frac{1}{4}$	3
688,500	34	30	10.000	1 x $\frac{1}{4}$	4
734,500	34	30	10.000	1 x $\frac{1}{4}$	3
834,200	36	32	12.656	1 x $\frac{1}{4}$	3
861,200	36	32	15.625	1 x $\frac{1}{4}$	3
891,100	36	32	18.906	1 x $\frac{1}{4}$	3
923,800	36	32	22.500	1 x $\frac{1}{4}$	3
906,100	36	32	15.189	1 x $\frac{1}{8}$	3
938,500	36	32	18.750	1 x $\frac{1}{8}$	3
974,300	36	32	22.687	1 x $\frac{1}{8}$	3
1,013,600	36	32	27.000	1 x $\frac{1}{8}$	3

Safe Loads for Hooped Columns. Stress in Concrete 700 Pounds per Square Inch

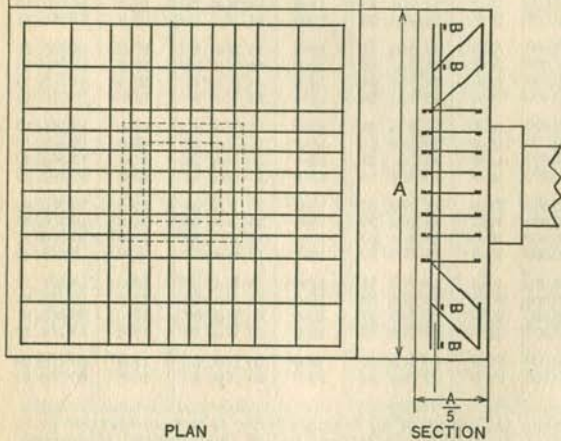
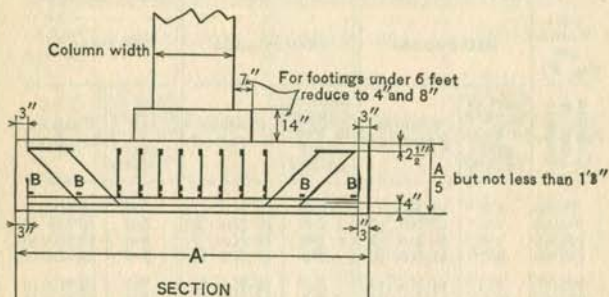
Load in Pounds	Diameter, Inches		Total Area of Verticals Inches	Hooping	
	Outside	Core		Size Inches	Pitch Inches
100,000	14	10	1.500	$\frac{5}{16}\Phi$	2
110,100	14	10	1.500	$\frac{1}{8}$	1½
130,300	16	12	1.500	$\frac{1}{8}$	2
142,400	16	12	1.500	$\frac{1}{8}$	1½
173,200	18	14	2.344	$\frac{1}{8}$	2
187,400	18	14	2.344	$\frac{1}{8}$	1½
242,900	20	16	2.344	$\frac{1}{2} \times \frac{1}{4}$	2
269,300	20	16	2.344	$\frac{1}{2} \times \frac{1}{4}$	1½
250,600	20	16	3.125	$\frac{1}{2} \times \frac{1}{4}$	2
277,000	20	16	3.125	$\frac{1}{2} \times \frac{1}{4}$	1½
300,300	22	18	3.375	$\frac{1}{2} \times \frac{1}{4}$	2
330,000	22	18	3.375	$\frac{1}{2} \times \frac{1}{4}$	1½
397,900	22	18	3.125	$\frac{1}{2} \times \frac{1}{4}$	2
327,600	22	18	3.125	$\frac{1}{2} \times \frac{1}{4}$	1½
364,200	24	20	4.594	$\frac{1}{2} \times \frac{1}{4}$	2
397,200	24	20	4.594	$\frac{1}{2} \times \frac{1}{4}$	1½
363,000	24	20	4.500	$\frac{1}{2} \times \frac{1}{4}$	2
396,000	24	20	4.500	$\frac{1}{2} \times \frac{1}{4}$	1½
419,100	26	22	4.500	$\frac{1}{2} \times \frac{1}{4}$	2
455,400	26	22	4.500	$\frac{1}{2} \times \frac{1}{4}$	1½
430,100	26	22	5.625	$\frac{1}{2} \times \frac{1}{4}$	2
466,400	26	22	5.625	$\frac{1}{2} \times \frac{1}{4}$	1½
495,500	28	24	6.125	$\frac{1}{2} \times \frac{1}{4}$	2
535,100	28	24	6.125	$\frac{1}{2} \times \frac{1}{4}$	1½
490,600	28	24	5.625	$\frac{1}{2} \times \frac{1}{4}$	2
530,200	28	24	5.625	$\frac{1}{2} \times \frac{1}{4}$	1½
578,800	30	26	8.000	1 x $\frac{1}{4}$	4
621,700	30	26	8.000	1 x $\frac{1}{4}$	3
575,400	30	26	7.656	1 x $\frac{1}{4}$	4
618,300	30	26	7.656	1 x $\frac{1}{4}$	3
629,600	32	28	8.000	1 x $\frac{1}{4}$	4
675,800	32	28	8.000	1 x $\frac{1}{4}$	3
644,600	32	28	7.656	1 x $\frac{1}{4}$	4
690,800	32	28	7.656	1 x $\frac{1}{4}$	3
742,500	34	30	10.125	1 x $\frac{1}{4}$	4
792,000	34	30	10.125	1 x $\frac{1}{4}$	3
741,300	34	30	10.000	1 x $\frac{1}{4}$	4
790,800	34	30	10.000	1 x $\frac{1}{4}$	3
898,200	36	32	12.656	1 x $\frac{1}{4}$	3
927,300	36	32	15.625	1 x $\frac{1}{4}$	3
959,400	36	32	18.906	1 x $\frac{1}{4}$	3
994,700	36	32	22.500	1 x $\frac{1}{4}$	3
975,700	36	32	15.187	1 x $\frac{5}{16}$	3
1,010,600	36	32	18.750	1 x $\frac{5}{16}$	3
1,049,200	36	32	22.687	1 x $\frac{5}{16}$	3
1,091,500	36	32	27.000	1 x $\frac{5}{16}$	3

PITTSBURGH STEEL PRODUCTS COMPANY

Safe Loads for Hooped Columns. Stress in Concrete 750 Pounds per Square Inch

Load in Pounds	Diameter, Inches		Total Area of Verticals Inches	Hooping	
	Outside	Core		Size Inches	Pitch Inches
107,200	14	10	1.500	$\frac{5}{16}\Phi$	2
118,000	14	10	1.500	$\frac{7}{8}$	1½
139,600	16	12	1.500	$\frac{7}{8}$	2
152,600	16	12	1.500	$\frac{7}{8}$	1½
185,600	18	14	2.344	$\frac{7}{8}$	2
200,700	18	14	2.344	$\frac{7}{8}$	1½
260,200	20	16	2.344	$\frac{1}{2} \times \frac{1}{4}$	2
288,500	20	16	2.344	$\frac{1}{2} \times \frac{1}{4}$	1½
268,400	20	16	3.125	$\frac{1}{2} \times \frac{1}{4}$	2
296,700	20	16	3.125	$\frac{1}{2} \times \frac{1}{4}$	1½
321,700	22	18	3.375	$\frac{1}{2} \times \frac{1}{4}$	2
353,500	22	18	3.375	$\frac{1}{2} \times \frac{1}{4}$	1½
319,100	22	18	3.125	$\frac{1}{2} \times \frac{1}{4}$	2
350,900	22	18	3.125	$\frac{1}{2} \times \frac{1}{4}$	1½
389,900	24	20	4.594	$\frac{1}{2} \times \frac{1}{4}$	2
425,200	24	20	4.594	$\frac{1}{2} \times \frac{1}{4}$	1½
388,900	24	20	4.500	$\frac{1}{2} \times \frac{1}{4}$	2
424,200	24	20	4.500	$\frac{1}{2} \times \frac{1}{4}$	1½
449,000	26	22	4.500	$\frac{1}{2} \times \frac{1}{4}$	2
487,800	26	22	4.500	$\frac{1}{2} \times \frac{1}{4}$	1½
460,800	26	22	5.625	$\frac{1}{2} \times \frac{1}{4}$	2
499,600	26	22	5.625	$\frac{1}{2} \times \frac{1}{4}$	1½
530,800	28	24	6.125	$\frac{1}{2} \times \frac{1}{4}$	2
573,200	28	24	6.125	$\frac{1}{2} \times \frac{1}{4}$	1½
525,500	28	24	5.625	$\frac{1}{2} \times \frac{1}{4}$	2
567,900	28	24	5.625	$\frac{1}{2} \times \frac{1}{4}$	1½
620,000	30	26	8.000	1 x $\frac{1}{4}$	4
665,900	30	26	8.000	1 x $\frac{1}{4}$	3
616,400	30	26	7.656	1 x $\frac{1}{4}$	4
662,300	30	26	7.656	1 x $\frac{1}{4}$	3
694,200	32	28	8.000	1 x $\frac{1}{4}$	4
743,700	32	28	8.000	1 x $\frac{1}{4}$	3
690,600	32	28	7.656	1 x $\frac{1}{4}$	4
740,100	32	28	7.656	1 x $\frac{1}{4}$	3
795,500	34	30	10.125	1 x $\frac{1}{4}$	4
848,500	34	30	10.125	1 x $\frac{1}{4}$	3
794,100	34	30	10.000	1 x $\frac{1}{4}$	4
847,100	34	30	10.000	1 x $\frac{1}{4}$	3
962,200	36	32	12.656	1 x $\frac{1}{4}$	3
993,400	36	32	15.625	1 x $\frac{1}{4}$	3
1,027,800	36	32	18.906	1 x $\frac{1}{4}$	3
1,055,400	36	32	22.500	1 x $\frac{1}{4}$	3
1,045,400	36	32	15.187	1 x $\frac{5}{16}$	3
1,082,800	36	32	18.750	1 x $\frac{5}{16}$	3
1,114,000	36	32	22.687	1 x $\frac{5}{16}$	3
1,157,300	36	32	27.000	1 x $\frac{5}{16}$	3

## Typical Column Footing



PITTSBURGH STEEL PRODUCTS COMPANY

Dimensions of Square Footings and Frames  
Required for Various Column Loads  
and Various Soil Pressures

Soil Value per Sq. Ft.	2000 Pounds		2500 Pounds		3000 Pounds	
	Side of Square in Feet and Inches	Frames Required	Side of Square in Feet and Inches	Frames Required	Side of Square in Feet and Inches	Frames Required
75,000	6-3	10 No. 7	5-6	8 No. 7	5-0	8 No. 6
100,000	7-0	12 No. 7	6-6	10 No. 8	6-0	10 No. 8
125,000	8-0	14 No. 9	7-3	12 No. 9	6-6	10 No. 10
150,000	8-9	14 No. 10	7-9	12 No. 11	7-3	12 No. 11
175,000	9-6	14 No. 12	8-6	14 No. 11	7-9	12 No. 12
200,000	10-0	14 No. 13	9-0	14 No. 12	8-3	14 No. 11
225,000	10-9	14 No. 15	9-6	14 No. 13	8-9	14 No. 12
250,000	11-3	14 No. 16	10-0	14 No. 14	9-3	14 No. 13
275,000	11-9	14 No. 17	10-6	14 No. 15	9-9	14 No. 14
300,000	12-3	14 No. 18	11-0	14 No. 17	10-0	14 No. 15
325,000	12-9	14 No. 19	11-6	14 No. 18	10-6	14 No. 16
350,000	13-3	14 No. 20	12-0	14 No. 19	10-9	14 No. 17
375,000	13-9	14 No. 21	12-3	14 No. 20	11-3	14 No. 18
400,000	14-3	16 No. 21	12-9	14 No. 21	11-9	14 No. 19
425,000	14-6	16 No. 21	13-0	16 No. 19	12-0	14 No. 19
450,000	15-0	16 No. 22	13-6	16 No. 20	12-3	16 No. 18
475,000	15-6	16 No. 23	13-9	16 No. 21	12-9	16 No. 19
500,000	15-9	16 No. 24	14-3	16 No. 22	13-0	16 No. 19
525,000	16-3	16 No. 25	14-6	16 No. 23	13-3	16 No. 20
550,000	16-9	16 No. 26	15-0	16 No. 23	13-9	16 No. 22
575,000	17-0	18 No. 25	15-3	16 No. 24	14-0	16 No. 23
600,000	17-3	18 No. 26	15-6	16 No. 25	14-3	16 No. 24
650,000	18-0	18 No. 29	16-3	18 No. 26	14-9	18 No. 23
700,000	18-9	18 No. 30	16-9	18 No. 27	15-3	18 No. 26
750,000	19-3	18 No. 31	17-6	18 No. 29	16-0	18 No. 27
800,000	20-0	18 No. 33	18-0	18 No. 30	16-6	18 No. 28
850,000	20-9	20 No. 31	18-6	20 No. 28	17-0	20 No. 27
900,000	21-3	20 No. 33	19-0	20 No. 29	17-6	20 No. 28
950,000	21-9	20 No. 34	19-6	20 No. 31	17-9	20 No. 29
1,000,000	22-6	22 No. 34	20-0	20 No. 32	18-3	20 No. 31

Near each edge of all footings under 12 feet square, two plain bars of the size of the largest bar of the required reinforcing frames, should be placed as at B in the footing drawing; that is, eight plain bars should be used in each footing. For footings 12 to 16 feet square, use three bars per edge. For footings over 16 feet, use four bars per edge.



## Dimensions of Square Footings and Frames Required for Various Column Loads and Various Soil Pressures—Continued

Soil Value per Sq. Ft.	4000 Pounds		5000 Pounds		6000 Pounds	
	Side of Square in Feet and Inches	Frames Required	Side of Square in Feet and Inches	Frames Required	Side of Square in Feet and Inches	Frames Required
75,000	4-6	6 No. 8	4-0	6 No. 6	3-9	6 No. 7
100,000	5-0	8 No. 6	4-6	6 No. 8	4-3	6 No. 8
125,000	5-9	8 No. 10	5-0	8 No. 8	4-9	6 No. 10
150,000	6-3	10 No. 10	5-6	8 No. 10	5-0	8 No. 8
175,000	6-9	10 No. 12	6-0	10 No. 9	5-6	8 No. 11
200,000	7-3	12 No. 11	6-6	10 No. 11	5-9	10 No. 9
225,000	7-6	12 No. 11	6-9	10 No. 11	6-3	10 No. 10
250,000	8-0	14 No. 11	7-3	12 No. 12	6-6	10 No. 11
275,000	8-6	14 No. 12	7-6	12 No. 12	6-9	10 No. 12
300,000	8-9	14 No. 12	7-9	12 No. 12	7-3	12 No. 12
325,000	9-0	14 No. 13	8-3	14 No. 12	7-6	12 No. 12
350,000	9-6	14 No. 14	8-6	14 No. 12	7-9	12 No. 12
375,000	9-9	14 No. 15	8-9	14 No. 13	8-0	14 No. 12
400,000	10-0	14 No. 16	9-0	14 No. 14	8-3	14 No. 12
425,000	10-6	14 No. 17	9-3	14 No. 15	8-6	14 No. 13
450,000	10-9	14 No. 18	9-6	14 No. 16	8-9	14 No. 14
475,000	11-0	14 No. 18	9-9	14 No. 17	9-0	14 No. 15
500,000	11-3	14 No. 19	10-0	14 No. 18	9-3	14 No. 16
525,000	11-6	16 No. 18	10-3	14 No. 18	9-6	14 No. 17
550,000	11-9	16 No. 19	10-6	14 No. 19	9-9	14 No. 18
575,000	12-0	16 No. 20	10-9	16 No. 18	9-9	14 No. 18
600,000	12-3	16 No. 21	11-0	16 No. 19	10-0	14 No. 19
650,000	12-9	18 No. 20	11-6	16 No. 20	10-6	16 No. 19
700,000	13-3	18 No. 22	12-0	16 No. 21	11-0	16 No. 19
750,000	13-9	18 No. 24	12-3	18 No. 20	11-3	16 No. 20
800,000	14-3	18 No. 25	12-9	18 No. 23	11-6	16 No. 20
850,000	14-6	20 No. 24	13-0	18 No. 24	12-0	18 No. 22
900,000	15-0	20 No. 25	13-6	20 No. 23	12-3	18 No. 23
950,000	15-6	20 No. 26	13-9	20 No. 24	12-6	20 No. 22
1,000,000	16-0	20 No. 27	14-3	20 No. 25	13-0	20 No. 23

Near each edge of all footings under 12 feet square, two plain bars of the size of the largest bar of the required reinforcing frames, should be placed as at B in the footing drawing; that is, eight plain bars should be used in each footing. For footings 12 to 16 feet square, use three bars per edge. For footings over 16 feet, use four bars per edge.

PITTSBURGH STEEL PRODUCTS COMPANY

Dimensions of Square Footings and Frames  
Required for Various Column Loads and  
Various Soil Pressures—Continued

Soil Value per Sq. Ft.	7000 Pounds		8000 Pounds		10,000 Pounds	
	Side of Square in Feet and Inches	Frames Required	Side of Square in Feet and Inches	Frames Required	Side of Square in Feet and Inches	Frames Required
75,000	3-9	6 No. 5	3-6	6 No. 5	2-9	6 No. 4
100,000	4-0	6 No. 6	3-9	6 No. 6	3-0	6 No. 5
125,000	4-3	6 No. 8	4-0	6 No. 7	3-9	6 No. 6
150,000	4-9	6 No. 11	4-6	6 No. 10	4-0	6 No. 7
175,000	5-0	8 No. 9	4-9	6 No. 11	4-3	6 No. 9
200,000	5-6	8 No. 11	5-0	8 No. 9	4-6	6 No. 10
225,000	5-9	8 No. 11	5-6	8 No. 10	4-9	6 No. 10
250,000	6-0	10 No. 9	5-9	10 No. 9	5-0	8 No. 8
275,000	6-3	10 No. 10	6-0	10 No. 10	5-3	8 No. 9
300,000	6-9	10 No. 12	6-3	10 No. 10	5-6	8 No. 10
325,000	7-0	12 No. 11	6-6	10 No. 12	5-9	10 No. 10
350 010	7-3	12 No. 12	6-9	10 No. 12	6-0	10 No. 10
375,000	7-6	12 No. 12	7-0	12 No. 12	6-3	10 No. 10
400,000	7-9	12 No. 13	7-3	12 No. 12	6-3	10 No. 11
425,000	8-0	14 No. 12	7-6	12 No. 12	6-6	10 No. 12
450,000	8-3	14 No. 13	7-6	12 No. 12	6-9	10 No. 12
475,000	8-3	14 No. 13	7-9	12 No. 13	7-0	12 No. 12
500,000	8-6	14 No. 13	8-0	14 No. 12	7-3	12 No. 12
525,000	8-9	14 No. 15	8-3	14 No. 13	7-3	12 No. 12
550,000	9-0	14 No. 16	8-6	14 No. 14	7-6	12 No. 13
575,000	9-3	14 No. 17	8-6	14 No. 14	7-6	12 No. 13
600,000	9-6	14 No. 18	8-9	14 No. 16	7-9	12 No. 15
650,000	9-9	16 No. 17	9-0	16 No. 16	8-3	14 No. 16
700,000	10-0	16 No. 18	9-6	16 No. 17	8-6	14 No. 17
750,000	10-6	16 No. 19	9-9	16 No. 18	8-9	14 No. 18
800,000	10-9	16 No. 20	10-0	16 No. 19	9-0	16 No. 17
850,000	11-0	18 No. 21	10-6	18 No. 19	9-3	16 No. 18
900,000	11-6	18 No. 21	10-9	18 No. 19	9-6	16 No. 19
950,000	11-9	20 No. 20	11-0	20 No. 19	9-9	16 No. 20
1,000,000	12-0	20 No. 23	11-3	20 No. 20	10-0	18 No. 19

Near each edge of all footings under 12 feet square, two plain bars of the size of the largest bar of the required reinforcing frames, should be placed as at B in the footing drawing; that is, eight plain bars should be used in each footing. For footings 12 to 16 feet square, use three bars per edge. For footings over 16 feet, use four bars per edge.

## Concrete Materials Required per Barrel of Portland Cement

Proportion by Parts			Material Required on the basis of 1 Barrel=3.8 Cubic Feet		Material Required on the basis of 1 Barrel=4.0 Cubic Feet	
Cement	Sand	Stone	Sand	Stone	Sand	Stone
1	1.5	3	0.21	0.42	0.22	0.44
1	2	4	0.28	0.56	0.30	0.60
1	2.5	5	0.35	0.70	0.37	0.74
1	3	6	0.42	0.84	0.44	0.88

Approximately the same quantities will be required if gravel is used in lieu of stone. Quantities may be found to vary 10 per cent. from those given.

## Materials Required for One Cubic Yard of Concrete

Proportion by Parts			Materials Required on the basis of 1 Barrel = 3.8 Cubic Feet			Materials Required on the basis of 1 Barrel = 4.0 Cubic Feet		
Port-land Ce-ment	Sand	Stone	Ce-ment in Bar-rels	Sand in Cubic Yards	Stone in Cubic Yards	Ce-ment in Bar-rels	Sand in Cubic Yards	Stone in Cubic Yards
1	1.5	3	1.94	0.41	0.82	1.86	0.41	0.82
1	2	4	1.52	0.43	0.86	1.46	0.43	0.86
1	2.5	5	1.26	0.44	0.88	1.20	0.44	0.88
1	3	6	1.07	0.45	0.90	1.02	0.45	0.90

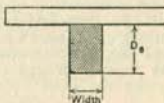
Approximately the same quantities will be required if gravel is used. Quantities may be found to vary 10 per cent. from those given.

Portland cement when loose has a volume of approximately 4.3 cubic feet per barrel. In proportioning concrete, 4.0 cubic feet per barrel is commonly used, and 3.8 cubic feet per barrel is recommended by various engineering societies. A bag of Portland cement weighing 94 pounds is equivalent to one-quarter of a barrel.

PITTSBURGH STEEL PRODUCTS COMPANY

Cubic Feet Concrete per Lineal Foot of Web or Stem of T-Beams and Girders

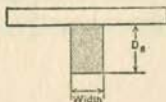
Net Depth D <sub>s</sub> of Web Inches	Width of Web Inches			Net Depth D <sub>s</sub> of Web Inches	Width of Web Inches		
	4	6	8		4	6	8
3.0	0.08	0.13	. .	12.0	0.33	0.50	0.67
3.5	0.10	0.15	. .	12.5	0.35	0.52	0.69
4.0	0.11	0.17	. .	13.0	0.36	0.54	0.72
4.5	0.12	0.19	. .	13.5	. .	0.56	0.75
5.0	0.14	0.21	. .	14.0	. .	0.58	0.78
5.5	0.15	0.23	. .	14.5	. .	0.60	0.81
6.0	0.17	0.25	. .	15.0	. .	0.63	0.83
6.5	0.18	0.27	. .	15.5	. .	0.65	0.86
7.0	0.19	0.29	0.39	16.0	. .	0.67	0.89
7.5	0.21	0.31	0.42	16.5	. .	0.69	0.92
8.0	0.22	0.33	0.45	17.0	. .	0.71	0.95
8.5	0.24	0.35	0.47	17.5	. .	0.73	0.97
9.0	0.25	0.37	0.50	18.0	. .	0.75	1.00
9.5	0.26	0.40	0.53	18.5	. .	0.77	1.03
10.0	0.28	0.42	0.56	19.0	. .	0.79	1.06
10.5	0.29	0.44	0.58	19.5	. .	. .	1.08
11.0	0.31	0.46	0.61	20.0	. .	. .	1.11
11.5	0.32	0.48	0.64	20.5	. .	. .	1.13
				21.0	. .	. .	1.15



PITTSBURGH STEEL PRODUCTS COMPANY

Cubic Feet Concrete per Lineal Foot of Web or Stem  
of T-Beams and Girders

Net Depth D <sub>s</sub> of Web Inches	Width of Web Inches			Net Depth D <sub>s</sub> of Web Inches	Width of Web Inches		
	10	12	14		10	12	14
10.0	0.70	0.83	0.97	25.0	1.74	2.08	2.43
10.5	0.73	0.88	1.02	25.5	1.77	2.12	2.48
11.0	0.76	0.92	1.07	26.0	1.81	2.17	2.53
11.5	0.80	0.96	1.12	26.5	1.84	2.21	2.57
12.0	0.83	1.00	1.17	27.0	1.88	2.25	2.62
12.5	0.87	1.04	1.22	27.5	1.91	2.29	2.67
13.0	0.90	1.08	1.26	28.0	1.94	2.33	2.72
13.5	0.94	1.12	1.31	28.5	1.98	2.38	2.77
14.0	0.97	1.17	1.36	29.0	2.02	2.42	2.82
14.5	1.01	1.21	1.41	29.5	2.05	2.46	2.87
15.0	1.04	1.25	1.46	30.0	2.08	2.50	2.92
15.5	1.08	1.29	1.51	30.5	2.12	2.54	2.96
16.0	1.11	1.33	1.56	31.0	2.15	2.58	3.01
16.5	1.15	1.38	1.60	31.5	2.18	2.62	3.06
17.0	1.18	1.42	1.65	32.0	2.22	2.67	3.11
17.5	1.21	1.46	1.70	32.5	2.26	2.71	3.16
18.0	1.25	1.50	1.75	33.0	2.29	2.75	3.20
18.5	1.29	1.54	1.80	33.5	2.32	2.79	3.26
19.0	1.32	1.58	1.85	34.0	2.36	2.83	3.30
19.5	1.35	1.63	1.90	34.5	2.40	2.88	3.35
20.0	1.39	1.67	1.95	35.0	2.43	2.92	3.40
20.5	1.42	1.71	1.99	35.5	2.46	2.96	3.45
21.0	1.46	1.75	2.04	36.0	2.50	3.00	3.50
21.5	1.49	1.79	2.09	36.5	. .	3.04	3.55
22.0	1.53	1.83	2.14	37.0	. .	3.09	3.60
22.5	1.56	1.88	2.19	37.5	. .	3.13	3.65
23.0	1.60	1.92	2.24	38.0	. .	3.17	3.70
23.5	1.63	1.96	2.28	38.5	. .	3.21	3.74
24.0	1.67	2.00	2.33	39.0	. .	3.25	3.79
24.5	1.70	2.04	2.38	39.5	. .	3.29	3.84
				40.0	. .	3.33	3.89



### Cubic Feet of Concrete per Lineal Foot of Rectangular Beams and Columns

Size Inches	4	5	6	8	10	12	14	16	18
8	.22	.28	.33	.44	. . .	. . .	. . .	. . .	. . .
10	.28	.35	.42	.56	.70	. . .	. . .	. . .	. . .
12	.33	.42	.50	.67	.83	1.00	. . .	. . .	. . .
14	.39	.49	.58	.78	.97	1.17	1.36	. . .	. . .
16	.44	.56	.67	.89	1.11	1.33	1.56	1.78	. . .
18	.50	.63	.75	1.00	1.25	1.50	1.75	2.00	2.25
20	.56	.70	.83	1.11	1.39	1.67	1.95	2.22	2.50
22	.61	.76	.92	1.22	1.53	1.83	2.14	2.44	2.75
24	.67	.83	1.00	1.33	1.67	2.00	2.33	2.67	3.00
26	.72	.90	1.08	1.44	1.81	2.17	2.53	2.89	3.25
28	.78	.97	1.17	1.56	1.94	2.33	2.72	3.11	3.50
30	.83	1.04	1.25	1.67	2.08	2.50	2.92	3.33	3.75
32	.89	1.11	1.33	1.78	2.22	2.67	3.11	3.56	4.00
34	.94	1.18	1.42	1.89	2.36	2.83	3.30	3.78	4.25
36	1.00	1.25	1.50	2.00	2.50	3.00	3.50	4.00	4.50
38	1.06	1.32	1.58	2.11	2.64	3.17	3.70	4.22	4.75
40	1.11	1.39	1.67	2.22	2.78	3.33	3.89	4.44	5.00
42	1.17	1.46	1.75	2.33	2.92	3.50	4.09	4.67	5.25
44	1.22	1.53	1.83	2.44	3.06	3.67	4.28	4.89	5.50
46	1.28	1.60	1.92	2.56	3.20	3.83	4.47	5.11	5.75
48	1.33	1.67	2.00	2.67	3.33	4.00	4.67	5.33	6.00
50	1.39	1.74	2.08	2.78	3.47	4.17	4.86	5.56	6.25
52	1.44	1.81	2.17	2.89	3.61	4.33	5.06	5.78	6.50
54	1.50	1.88	2.25	3.00	3.75	4.50	5.25	6.00	6.75

Cubic Feet of Concrete per Lineal Foot of  
Rectangular Beams and Columns

Size Inches	20	22	24	26	28	30	32	34	36
8	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
10	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
12	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
14	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
16	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
18	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
20	2.78	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
22	3.05	3.36	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
24	3.33	3.67	4.00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
26	3.61	3.97	4.33	4.70	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
28	3.89	4.28	4.67	5.06	5.45	. . . . .	. . . . .	. . . . .	. . . . .
30	4.17	4.58	5.00	5.42	5.83	6.25	. . . . .	. . . . .	. . . . .
32	4.45	4.89	5.33	5.78	6.22	6.67	7.11	. . . . .	. . . . .
34	4.73	5.20	5.67	6.14	6.61	7.08	7.56	8.03	. . . . .
36	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
38	5.28	5.81	6.33	6.86	7.39	7.91	8.44	8.97	9.50
40	5.56	6.12	6.67	7.22	7.78	8.34	8.89	9.44	10.00
42	5.83	6.42	7.00	7.59	8.17	8.75	9.33	9.91	10.50
44	6.11	6.72	7.33	7.95	8.56	9.17	9.78	10.39	11.00
46	6.39	7.03	7.67	8.31	8.95	9.58	10.22	10.85	11.50
48	6.67	7.33	8.00	8.67	9.33	10.00	10.67	11.33	12.00
50	6.94	7.64	8.33	9.03	9.72	10.42	11.11	11.80	12.50
52	7.22	7.95	8.67	9.39	10.11	10.83	11.56	12.28	13.00
54	7.50	8.25	9.00	9.75	10.50	11.25	12.00	12.75	13.50

### Weight of Concrete in Pounds per Lineal Foot of Rectangular Beams and Columns

Size Inches	4	5	6	8	10	12	14	16	18
8	33.0	42.0	49.5	66.0	...	...	...	...	...
10	42.0	52.5	63.0	84.0	105.0	...	...	...	...
12	49.5	63.0	75.0	100.5	126.0	150.0	...	...	...
14	58.5	73.5	87.0	117.0	147.0	174.0	204.0	...	...
16	66.0	84.0	100.5	132.0	168.0	201.0	234.0	264.0	...
18	75.0	94.5	112.5	150.0	189.0	225.0	272.5	300.0	337.5
20	84.0	105.0	124.5	168.0	210.0	249.0	292.5	336.0	375.0
22	91.5	114.0	138.0	183.0	228.0	276.0	321.0	366.0	412.5
24	100.5	124.5	150.0	201.0	249.0	300.0	334.5	402.0	450.0
26	108.0	135.0	162.0	216.0	270.0	324.0	379.5	432.0	487.5
28	117.0	145.5	175.5	234.0	291.0	351.0	408.0	468.0	525.0
30	124.5	156.0	187.5	249.0	312.0	375.0	438.0	498.0	562.5
32	133.5	166.5	199.5	267.0	333.0	399.0	466.5	534.0	600.0
34	141.0	177.0	213.0	282.0	354.0	426.0	495.0	564.0	637.5
36	150.0	187.5	225.0	300.0	375.0	450.0	525.0	600.0	675.0
38	159.0	198.0	237.0	318.0	396.0	474.0	555.0	636.0	712.5
40	166.5	208.5	250.5	333.0	417.0	501.0	583.5	666.0	750.0
42	175.5	219.0	262.5	351.0	438.0	525.0	613.5	702.0	787.5
44	183.0	229.5	274.5	366.0	459.0	549.0	642.0	732.0	825.0
46	192.0	240.0	288.0	384.0	480.0	576.0	670.5	768.0	862.5
48	199.5	250.5	300.0	399.0	501.0	600.0	700.5	798.0	900.0
50	208.5	261.0	312.0	417.0	522.0	624.0	729.0	834.0	937.5
52	216.0	271.5	325.5	432.0	543.0	651.0	759.0	864.0	975.0
54	225.0	282.0	337.5	450.0	564.0	675.0	787.5	900.0	1012.5

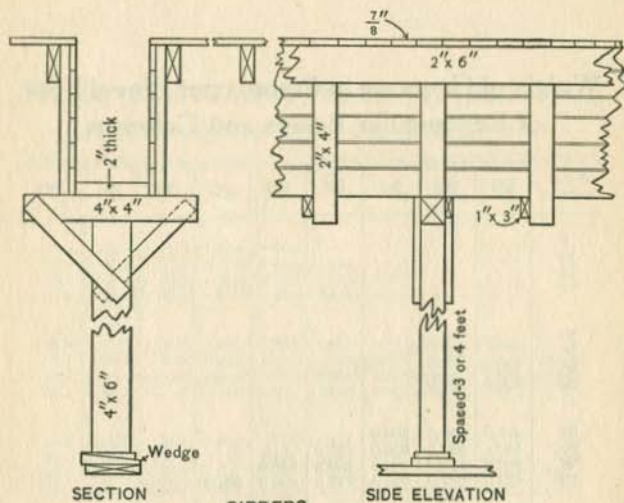


PITTSBURGH STEEL PRODUCTS COMPANY

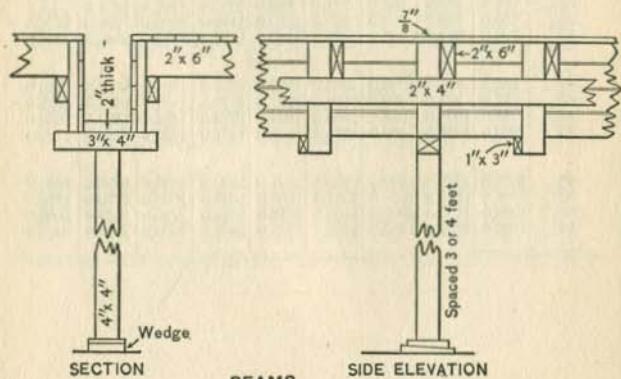
Weight of Concrete in Pounds per Lineal Foot  
of Rectangular Beams and Columns

Size Inches	20	22	24	26	28	30	32	34	36
8	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...
20	420.0	...	...	...	...	...	...	...	...
22	456.0	504.0	...	...	...	...	...	...	...
24	498.0	550.5	600.0	...	...	...	...	...	...
26	540.0	595.5	648.0	705.0	...	...	...	...	...
28	582.0	642.0	702.0	759.0	816.0	...	...	...	...
30	624.0	687.0	750.0	813.0	876.0	937.5	...	...	...
32	666.0	733.5	798.0	867.0	933.0	1000.5	1068.0	...	...
34	708.0	780.0	852.0	921.0	990.0	1062.0	1128.0	1204.5	...
36	750.0	825.0	900.0	975.0	1050.0	1125.0	1200.0	1275.0	1350.0
38	792.0	871.5	948.0	1029.0	1110.0	1186.5	1272.0	1345.5	1425.0
40	834.0	918.0	1002.0	1088.0	1167.0	1251.0	1332.0	1416.0	1500.0
42	876.0	963.0	1050.0	1138.5	1227.0	1312.5	1404.0	1486.5	1575.0
44	918.0	1008.0	1098.0	1192.5	1284.0	1375.5	1464.0	1558.5	1650.0
46	960.0	1054.5	1152.0	1246.5	1341.0	1437.0	1536.0	1627.5	1725.0
48	1002.0	1099.5	1200.0	1300.5	1401.0	1500.0	1596.0	1699.5	1800.0
50	1044.0	1146.0	1248.0	1354.5	1458.0	1563.0	1668.0	1770.0	1875.0
52	1086.0	1192.5	1302.0	1408.5	1518.0	1624.5	1728.0	1842.0	1950.0
54	1128.0	1237.5	1350.0	1462.5	1575.0	1687.5	1800.0	1912.5	2025.0

### Typical Girder and Beam Forms

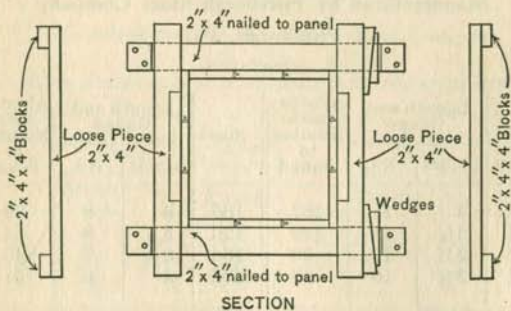
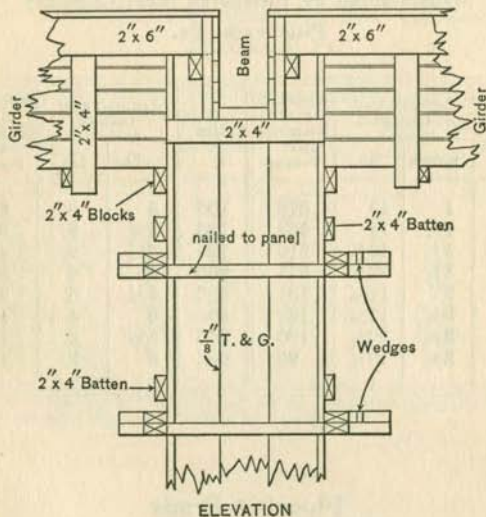


GIRDERS



BEAMS

## Typical Column Form



PITTSBURGH STEEL PRODUCTS COMPANY

Common Nails

Manufactured by Pittsburgh Steel Company  
Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound	Size	Length and Gauge		Approximate Number to Pound
	Inches	No.			Inches	No.	
2d	1	15	876	10d	3	9	69
3d	1¼	14	568	12d	3¼	9	63
4d	1½	12½	316	16d	3½	8	49
5d	1¾	12½	271	20d	4	6	31
6d	2	11½	181	30d	4½	5	24
7d	2¼	11½	161	40d	5	4	18
8d	2½	10¼	106	50d	5½	3	14
9d	2¾	10¼	96	60d	6	2	11

Flooring Brads

Manufactured by Pittsburgh Steel Company  
Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound	Size	Length and Gauge		Approximate Number to Pound
	Inches	No.			Inches	No.	
6d	2	11	157	10d	3	9	69
7d	2¼	11	139	12d	3¼	8	54
8d	2½	10	99	16d	3½	7	43
9d	2¾	10	90	20d	4	6	31

PITTSBURGH STEEL PRODUCTS COMPANY

Spikes

Manufactured by Pittsburgh Steel Company  
Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound	Size	Length and Gauge		Approximate Number to Pound
	Inches	No.			Inches	No.	
10d	3	6	41	60d	6	1	8
12d	3¼	6	38	7 in.	7	0	7
16d	3½	5	30	8 in.	8	00	6
20d	4	4	23	9 in.	9	00	5
30d	4½	3	17	10 in.	10	¾ in.	4
40d	5	2	13	12 in.	12	¾ in.	3
50d	5½	1	10				

In ordering spikes, specify chisel points or diamond points, also specify when flat heads are wanted.

Slating Nails

Manufactured by Pittsburgh Steel Company  
Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound	Size	Length and Gauge		Approximate Number to Pound
	Inches	No.			Inches	No.	
2d	1	12	411	5d	1¾	10	142
3d	1¼	10½	225	6d	2	9	103
4d	1½	10½	187				

## Finishing Nails

Manufactured by Pittsburgh Steel Company  
Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound	Size	Length and Gauge		Approximate Number to Pound
	Inches	No.			Inches	No.	
2d	1	16½	1351	8d	2½	12½	189
3d	1¼	15½	807	9d	2¾	12½	172
4d	1½	15	584	10d	3	11½	121
5d	1¾	15	500	12d	3¼	11½	113
6d	2	13½	309	16d	3½	11	90
7d	2¼	13	238	20d	4	10	62

## Clinch Nails

Manufactured by Pittsburgh Steel Company  
Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound	Size	Length and Gauge		Approximate Number to Pound
	Inches	No.			Inches	No.	
2d	1	14	710	8d	2½	10	99
3d	1¼	13	429	9d	2¾	10	90
4d	1½	12	274	10d	3	9	69
5d	1¾	12	235	12d	3¼	9	62
6d	2	11	157	16d	3½	8	49
7d	2¼	11	139	20d	4	7	37

If bright clinch nails are wanted, so specify in ordering.

PITTSBURGH STEEL PRODUCTS COMPANY

Common Brads

Manufactured by Pittsburgh Steel Company  
Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound	Size	Length and Gauge		Approximate Number to Pound
	Inches	No.			Inches	No.	
2d	1	15	876	10d	3	9	69
3d	1¼	14	568	12d	3¼	9	64
4d	1½	12½	316	16d	3½	8	49
5d	1¾	12½	271	20d	4	6	31
6d	2	11½	181	30d	4½	5	24
7d	2¼	11½	161	40d	5	4	18
8d	2½	10¼	106	50d	5½	3	16
9d	2¾	10¼	96	60d	6	2	11

Fence Nails

Manufactured by Pittsburgh Steel Company  
Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound	Size	Length and Gauge		Approximate Number to Pound
	Inches	No.			Inches	No.	
5d	1¾	10	142	10d	3	7	50
6d	2	10	124	12d	3¼	6	40
7d	2¼	9	92	16d	3½	5	30
8d	2½	9	82	20d	4	4	23
9d	2¾	8	62				

### Casing Nails

Manufactured by Pittsburgh Steel Company  
Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound	Size	Length and Gauge		Approximate Number to Pound
	Inches	No.			Inches	No.	
2d	1	15½	1010	9d	2¾	11½	132
3d	1¼	14½	635	10d	3	10½	94
4d	1½	14	473	12d	3¼	10½	87
5d	1¾	14	406	16d	3½	10	71
6d	2	12½	236	20d	4	9	52
7d	2¼	12½	210	30d	4½	9	46
8d	2½	11½	145	40d	5	8	35

### Shingle Nails

Manufactured by Pittsburgh Steel Company  
Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound	Size	Length and Gauge		Approximate Number to Pound
	Inches	No.			Inches	No.	
3d	1¼	13	429	7d	2¼	11	139
4d	1½	12	274	8d	2½	11	125
5d	1¾	12	235	9d	2¾	11	114
6d	2	12	204	10d	3	10	83



PITTSBURGH STEEL PRODUCTS COMPANY

Boat Nails (Light)

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound
	Inches	Number	
4d	1½	$\frac{3}{16}$	82
6d	2	$\frac{3}{16}$	62
8d	2½	$\frac{3}{16}$	50
10d	3	$\frac{1}{4}$	22
12d	3¼	$\frac{1}{4}$	20
16d	3½	$\frac{1}{4}$	18
20d	4	$\frac{1}{4}$	16

Boat Nails (Heavy)

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound
	Inches	Number	
4d	1½	$\frac{1}{4}$	44
6d	2	$\frac{1}{4}$	32
8d	2½	$\frac{1}{4}$	26
10d	3	$\frac{3}{8}$	14
12d	3¼	$\frac{3}{8}$	13
16d	3½	$\frac{3}{8}$	12
20d	4	$\frac{3}{8}$	10

Plaster Board Nails

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

- 1 inch x No. 9 gauge, ½-inch head
- 1¼ inch x No. 9 gauge, ½-inch head
- 1½ inch x No. 9 gauge, ½-inch head

PITTSBURGH STEEL PRODUCTS COMPANY

**Large Head Barbed Felt Roofing Nails**

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

Size Inches	Length and Gauge							
	Head Inch	No.	Head Inch	No.	Head Inch	No.	Head Inch	No.
$\frac{3}{4}$	$\frac{1}{2}$	8	$\frac{1}{2}$	9	$\frac{1}{2}$	$9\frac{1}{2}$	$\frac{7}{16}$	10
$\frac{7}{8}$	$\frac{1}{2}$	8	$\frac{1}{2}$	9	$\frac{1}{2}$	$9\frac{1}{2}$	$\frac{7}{16}$	10
1	$\frac{1}{2}$	8	$\frac{1}{2}$	9	$\frac{1}{2}$	$9\frac{1}{2}$	$\frac{7}{16}$	10
$1\frac{1}{8}$	$\frac{1}{2}$	8	$\frac{1}{2}$	9	$\frac{1}{2}$	$9\frac{1}{2}$	$\frac{7}{16}$	10
$1\frac{1}{4}$	$\frac{1}{2}$	8	$\frac{1}{2}$	9	$\frac{1}{2}$	$9\frac{1}{2}$	$\frac{7}{16}$	10
$1\frac{1}{2}$	$\frac{1}{2}$	8	$\frac{1}{2}$	9	$\frac{1}{2}$	$9\frac{1}{2}$	$\frac{7}{16}$	10
$1\frac{3}{4}$	$\frac{1}{2}$	8	$\frac{1}{2}$	9	$\frac{1}{2}$	$9\frac{1}{2}$	$\frac{7}{16}$	10

**Fine Nails**

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound
	Inches	Number	
2d	1	$16\frac{1}{2}$	1351
3d	$1\frac{1}{8}$	15	778
4d	$1\frac{1}{2}$	14	473
3d { extra fine	$1\frac{1}{8}$	16	1015

**Lining Nails**

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

Size Inch	Length and Gauge		Approximate Number to Pound
	Inch	Number	
$\frac{3}{4}$	$\frac{3}{4}$	17	2077
$\frac{7}{8}$	$\frac{7}{8}$	17	1781
1	1	17	1558

PITTSBURGH STEEL PRODUCTS COMPANY

**Hinge Nails (Heavy)**

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

In Ordering Hinge Nails Specify Whether Oval or  
Countersunk Head, Light or Heavy  
Annealed or Bright

Size	Length and Gauge		Approximate Number to Pound
	Inches	Number	
4d	1½	3	50
6d	2	3	38
8d	2½	3	30
10d	3	00	12
12d	3¼	00	11
16d	3½	00	10
20d	4	00	9

**Hinge Nails (Light)**

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound
	Inches	Number	
4d	1½	6	82
6d	2	6	62
8d	2½	6	50
10d	3	3	25
12d	3¼	3	23
16d	3½	3	22
20d	4	3	19

PITTSBURGH STEEL PRODUCTS COMPANY

Barbed Roofing Nails

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

Size Inches	Length and Gauge		Approximate Number to Pound
	Inches	Number	
$\frac{3}{4}$	$\frac{3}{4}$	13	714
$\frac{7}{8}$	$\frac{7}{8}$	12	469
1	1	12	411
$1\frac{1}{8}$	$1\frac{1}{8}$	12	365
$1\frac{1}{4}$	$1\frac{1}{4}$	11	251
$1\frac{3}{8}$	$1\frac{3}{8}$	11	230
$1\frac{1}{2}$	$1\frac{1}{2}$	10	176
$1\frac{3}{4}$	$1\frac{3}{4}$	10	151
2	2	9	103

Barbed Box Nails

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound
	Inches	Number	
2d	1	$15\frac{1}{2}$	1010
3d	$1\frac{1}{4}$	$14\frac{1}{2}$	635
4d	$1\frac{1}{2}$	14	473
5d	$1\frac{3}{4}$	14	406
6d	2	$12\frac{1}{2}$	236
7d	$2\frac{1}{4}$	$12\frac{1}{2}$	210
8d	$2\frac{1}{2}$	$11\frac{1}{2}$	145
9d	$2\frac{3}{4}$	$11\frac{1}{2}$	132
10d	3	$10\frac{1}{2}$	94
12d	$3\frac{1}{4}$	$10\frac{1}{2}$	88
16d	$3\frac{1}{2}$	10	71
20d	4	9	52
30d	$4\frac{1}{2}$	9	46
40d	5	8	35

PITTSBURGH STEEL PRODUCTS COMPANY

Barbed Dowel Pins

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

Size Inches	Length and Gauge		Approximate Number to Pound
	Inches	Number	
$\frac{5}{8}$	$\frac{5}{8}$	8	290
$\frac{3}{4}$	$\frac{3}{4}$	8	250
$\frac{7}{8}$	$\frac{7}{8}$	8	210
1	1	8	190
$1\frac{1}{8}$	$1\frac{1}{8}$	8	165
$1\frac{1}{4}$	$1\frac{1}{4}$	8	150
$1\frac{3}{8}$	$1\frac{3}{8}$	8	130
$1\frac{1}{2}$	$1\frac{1}{2}$	8	120

Smooth Box Nails

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

Size	Length and Gauge		Approximate Number to Pound
	Inches	Number	
2d	1	$15\frac{1}{2}$	1010
3d	$1\frac{1}{4}$	$14\frac{1}{2}$	635
4d	$1\frac{1}{2}$	14	473
5d	$1\frac{3}{4}$	14	406
6d	2	$12\frac{1}{2}$	236
7d	$2\frac{1}{4}$	$12\frac{1}{2}$	210
8d	$2\frac{1}{2}$	$11\frac{1}{2}$	145
9d	$2\frac{3}{4}$	$11\frac{1}{2}$	132
10d	3	$10\frac{1}{2}$	94
12d	$3\frac{1}{4}$	$10\frac{1}{2}$	88
16d	$3\frac{1}{2}$	10	71
20d	4	9	52
30d	$4\frac{1}{2}$	9	46
40d	5	8	35

## Explanation of Timber Tables

Tables B, C, D and E were taken from unpublished manuscript in possession of John Wiley & Sons, Publishers.

“Table B gives safe loads for beams one inch wide and for an extreme fiber stress of 1,000 pounds per square inch. For any other fiber stress and for intermediate depths, the safe loads may be obtained by proportion.”

“Table C gives safe loads for beams one inch wide based on a safe horizontal shear of 100 pounds per square inch. For any other unit shear and for intermediate depths, the safe loads may be taken by proportion.”

“Both tables B and C should be used for the design of beams and the greater width of beam used. For long and shallow beams, table B will generally govern, for short and deep beams, table C.”

“The formula for the deflection in inches of a timber beam, uniformly loaded, in which  $l$  is the span in feet,  $d$  is the depth in inches, the width equals one inch, the total load in pounds is  $W$ , and  $E$  is the modulus of elasticity, may be written  $\Delta = 270 \frac{l^3}{d^3} \times \frac{W}{E}$ . Table D gives the deflection constants equal to  $270 \frac{l^3}{d^3}$  for various spans and depths of beams. As  $E$  varies considerably for woods of the same species, and for different degrees of seasoning, also for moisture content, the con-

stants for intermediate depths may be selected by inspection." To determine the deflection at the middle of a beam multiply  $C \times \frac{w}{E}$ , selecting E from table A. Table A gives  $E/2$ , which should be used instead of E for unseasoned timber or where it is important that the flexure of a beam shall not exceed a requisite limit.

**Design a beam** having a span of 15 feet for a uniform load of 5,000 pounds, deflection not to exceed  $1/200$  of the span, the beam to be of long-leaf pine. Table A gives an extreme fiber stress of 1,560 pounds per square inch, a safe shear with the grain of 190 pounds per square inch and  $E/2 = 750,000$ .

Enter table B assuming a depth of 12 inches. The table gives a safe load for a 12-inch beam, one inch wide of 1,070 pounds, but as this table was computed for a fiber stress of 1,000 pounds per square inch, the safe load for a long-leaf pine beam one inch wide =  $1070 \times \frac{1560}{1000} = 1669$  pounds. A beam three inches wide will therefore be selected.

Now enter table C, which was computed for a safe unit shear of 100 pounds per square inch. The safe load for a long-leaf pine beam one inch wide and 12 inches deep, from the tables, is  $1,600 \times \frac{190}{100} = 3,040$  pounds. For a beam three inches wide, the safe load is  $3 \times 3,040 = 9,120$  pounds. Therefore the dimensions of the beam are governed by table B.

The deflection in inches from table D using E instead of E/2 is  $C \times \frac{w}{E} = 530 \times \frac{5.000}{1,500,000} \div 1,500,000 = 0.59$  inches which is less than 1/200 of the span.

Table E gives the safe loads for columns based upon the formula adopted by the American Engineering and Maintenance of Way Association, 1907, and for a safe end bearing pressure of 1,000 pounds per square inch.

To design a long-leaf pine column 20 feet long, to carry a load of 100,000 pounds, enter Table A ; the safe end bearing compression = 1,820 pounds per square inch. Therefore, the safe load for a long-leaf pine column equals  $1.82 \times$  the tabulated safe load. Enter table E, selecting the nearest largest size timber, 20 feet long, which gives a safe load of  $100,000/1.82$  or approximately 60,000 pounds. This is a  $10 \times 10$  timber.

Table F gives a table useful in the design of timbers or washers bearing upon timber surfaces inclined to the fibers. This table was computed from a formula given by Prof. Henry S. Jacoby, in Structural Details, an excellent book upon timber design.



Table A

Safe Allowable Unit Stresses in Pounds per Square Inch in Various Kinds of TIMBER

Kind of Timber	Ten-sion		Compres-sion			Trans-verse		Shear-ing	
	With Grain	Across Grain	With Grain		Across Grain	Extreme Fiber Stress	Modulus of Elasticity $E/2$	With Grain	Across Grain
			End Bearing	Columns under 15 Diameters					
White oak . . . . .	1560	260	1820	1300	650	1560	750,000	260	1300
White pine . . . . .	910	60	1430	1040	260	910	500,000	130	650
Southern long-leaf pine	1560	80	1820	1300	450	1560	750,000	190	1620
Douglas fir . . . . .	1040	..	1560	1170	260	1040	750,000	170	..
Short-leaf yellow pine	1170	60	1430	1040	320	1300	600,000	130	1300
Red pine (Norway pine)	1040	60	1800	970	260	1040	565,000	..	..
Spruce and Eastern fir	1040	60	1560	1170	260	910	600,000	130	970
Hemlock . . . . .	780	..	1430	1040	190	780	450,000	130	780
Cypress . . . . .	780	..	1300	970	260	1040	450,000	..	..
Cedar . . . . .	910	..	1430	970	260	910	350,000	130	520
Chestnut . . . . .	1100	..	..	1040	320	1040	500,000	190	650
California redwood ..	910	..	..	1040	190	970	350,000	130	..
California spruce . . .	..	..	..	1040	..	1040	600,000	..	..

For timber containing large or loose knots, the unit stresses recommended are high.

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**Table B**

Safe Loads in Pounds Uniformly Distributed for Rectangular TIMBER Beams One Inch Wide for an Allowable Fiber Stress of 1000 Pounds per Square Inch

Span Feet	Depth of Beam, Inches							
	4	6	8	10	12	14	16	18
4	440	1000	1780	2780	4000	5440	. .	. .
5	360	800	1420	2220	3200	4360	. .	. .
6	300	670	1190	1850	2670	3630	. .	. .
7	250	570	1020	1590	2290	3110	. .	. .
8	220	500	890	1390	2000	2720	. .	. .
9	200	440	790	1240	1780	2420	3160	4000
10	180	400	710	1110	1600	2180	2840	3600
11	160	360	650	1010	1460	1980	2590	3270
12	150	330	590	930	1330	1820	2370	3000
13	140	310	550	860	1230	1680	2190	2770
14	130	290	510	790	1140	1560	2030	2570
15	120	270	470	740	1070	1450	1900	2400
16	110	250	440	690	1000	1360	1780	2250
17	110	240	420	650	940	1280	1670	2120
18	100	220	400	620	890	1210	1580	2000
19	90	210	370	590	840	1150	1500	1900
20	90	200	360	560	800	1090	1420	1800
21	90	190	340	530	760	1040	1350	1710
22	80	180	320	510	730	990	1290	1640
23	80	170	310	480	700	950	1240	1570
24	..	160	300	460	670	910	1190	1500
25	..	160	280	440	640	870	1140	1440
26	..	150	270	430	610	840	1090	1380
27	..	150	260	410	590	810	1050	1330
28	..	140	250	400	570	780	1020	1290
29	..	140	240	380	550	750	980	1240
30	..	130	240	370	530	730	950	1200
31	..	130	230	360	520	700	920	1160
32	..	120	220	350	500	680	890	1120
33	..	120	210	340	480	660	860	1090
34	..	120	210	330	470	640	840	1060
35	..	110	200	320	460	600	810	1030
36	..	..	..	..	..	..	780	1000

The weight of the beam need be considered only when the ratio of span to depth of beam is large. For concentrated loads at the middle of a beam, divide table safe loads by 2. For fiber stresses other than 1000 pounds correct safe load of table before multiplying by two.

**Table C**

Safe Load in Pounds Uniformly Distributed for Rectangular TIMBER Beams One Inch Wide for an Allowable Horizontal Shearing Stress with the Grain of 100 Pounds per Square Inch

Depth of beam, inches . . . . .	4	6	8	10	12	14	16	18
Safe load, pounds . . . . .	530	800	1070	1330	1600	1870	2130	2400

The weight of the beam has not been deducted in this table because when the shearing strength of a beam governs the design, the weight of the beam is negligible.

Table D

Deflection Constants "C" for TIMBER Beams One Inch Wide, Load Uniformly Distributed

Span Feet	Depth, Inches							
	4	6	8	10	12	14	16	18
5	530	160	66	34	20	12	8	. .
6	910	270	110	58	34	20	14	. .
7	1450	430	180	93	54	33	23	. .
8	2160	640	270	140	80	50	34	. .
9	3080	910	380	200	110	71	48	. .
10	4220	1250	530	270	160	98	66	46
11	5620	1660	700	360	210	130	88	61
12	7310	2160	910	470	270	170	110	79
13	9270	2750	1160	590	340	220	150	100
14	11580	3430	1450	740	430	270	180	130
15	14240	4220	1780	910	530	330	220	160
16	17280	5120	2160	1110	640	400	270	190
17	. .	6140	2590	1330	770	480	330	230
18	. .	7290	3070	1580	910	570	390	270
19	. .	8570	3610	1850	1070	670	450	320
20	. .	10000	4220	2160	1250	780	530	370
21	. .	. .	4880	2500	1450	910	610	430
22	. .	. .	5610	2880	1660	1050	700	490
23	. .	. .	6410	3280	1900	1200	800	560
24	. .	. .	7290	3730	2160	1350	910	640
25	. .	. .	. .	4220	2440	1540	1030	720
26	. .	. .	. .	4740	2740	1730	1160	810
27	. .	. .	. .	5310	3070	1930	1300	910
28	. .	. .	. .	5930	3420	2160	1450	1020
29	. .	. .	. .	6590	3810	2390	1610	1130
30	. .	. .	. .	7290	4210	2650	1780	1250
31	. .	. .	. .	. .	. .	. .	1970	1380
32	. .	. .	. .	. .	. .	. .	2160	1520
33	. .	. .	. .	. .	. .	. .	2370	1660
34	. .	. .	. .	. .	. .	. .	2590	1820
35	. .	. .	. .	. .	. .	. .	2830	1980
36	. .	. .	. .	. .	. .	. .	3080	2160

For a concentrated load at the middle of a beam the deflection constants of the table should be multiplied by 1.6.

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Table E

Safe Loads for Square TIMBER Columns in 1000-Pound Units. Based on Safe End Bearing Compression of 1000 Pounds per Square Inch

Unbraced Length Feet	Size of Column, Inches						
	4 x 4	6 x 6	8 x 8	10 x 10	12 x 12	14 x 14	16 x 16
4	16.0	. .	. .	. .	. .	. .	. .
6	11.2	36.0	. .	. .	. .	. .	. .
8	9.6	26.3	. .	. .	. .	. .	. .
10	8.0	24.1	64.0	. .	. .	. .	. .
12	6.4	21.6	44.8	100.0	. .	. .	. .
14	4.8	19.1	41.6	72.0	144.0	. .	. .
16	. .	16.9	38.4	68.0	105.0	196.0	. .
18	. .	14.4	35.2	63.0	100.8	145.0	256.0
20	. .	11.9	32.0	60.0	96.5	141.1	192.0
22	. .	9.7	28.8	57.0	90.6	133.2	185.6
24	. .	. .	25.6	52.0	86.4	127.3	179.1
26	. .	. .	22.4	48.0	82.1	123.5	172.8
28	. .	. .	19.2	43.0	76.3	117.6	166.4
30	. .	. .	. .	40.0	72.0	111.7	160.0
32	. .	. .	. .	36.0	67.6	107.8	153.5
34	. .	. .	. .	33.0	61.9	101.9	147.2
36	. .	. .	. .	. .	57.6	94.2	140.8
38	. .	. .	. .	. .	53.3	90.2	134.4
40	. .	. .	. .	. .	47.5	84.3	128.0
42	. .	. .	. .	. .	. .	78.4	121.7
44	. .	. .	. .	. .	. .	72.5	115.2
46	. .	. .	. .	. .	. .	66.6	108.9
48	. .	. .	. .	. .	. .	. .	102.4
50	. .	. .	. .	. .	. .	. .	96.0

For any other end bearing stress the safe load can be obtained by proportion.

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Table F

Allowable Compression on TIMBER Surfaces Inclined to the Fibers for Use in the Design of Buildings and Forms

Inclination	0°	10°	20°	30°	40°
Kind of Timber	Allowable compression in pounds per square inch				
White oak.....	650	690	790	940	1130
White pine.....	260	300	400	530	740
Southern long-leaf pine...	450	490	610	790	1010
Douglas fir.....	260	300	420	590	790
Short-leaf yellow pine....	330	350	450	600	780
Red pine (Norway pine)...	260	290	390	520	690
Spruce and Eastern fir....	260	300	420	590	790
Hemlock.....	190	230	350	510	700
Cypress.....	260	290	390	520	690
Cedar.....	260	300	400	530	740

Inclination	50°	60°	70°	80°	90°
Kind of Timber	Allowable compression in pounds per square inch				
White oak.....	1340	1520	1680	1780	1820
White pine.....	950	1130	1290	1390	1430
Southern long-leaf pine.	1260	1470	1650	1780	1820
Douglas fir.....	1030	1240	1400	1520	1560
Short-leaf yellow pine....	980	1160	1300	1400	1430
Red pine (Norway pine) ..	870	1040	1170	1270	1300
Spruce and Eastern fir ...	1030	1240	1400	1520	1560
Hemlock.....	930	1120	1290	1390	1430
Cypress.....	870	1040	1170	1270	1300
Cedar.....	950	1130	1290	1390	1430

## Mensuration

### Circle

Area = 3.1416 × square of radius = 0.7854 × square of diameter  
 = 0.7854 × area of square whose side is same as diameter of circle.

Circumference = 3.1416 × diameter.

Diameter = 0.3183 × circumference.

Length of arc = number of degrees × diameter × 0.008727.

$$\pi = 3.14159265 +$$

$$\text{Reciprocal of } \frac{\pi}{4} = 1.27324$$

$$\sqrt{\pi} = 1.772454$$

$$\sqrt{\frac{1}{\pi}} = 0.564189$$

$$\pi^2 = 9.869604$$

$$\frac{1}{\pi} = 0.318310$$

$$\frac{1}{\pi^2} = 0.101321$$

Diameter in inches = 13.5405  $\sqrt{\text{area in square feet}}$ .

Area in square feet = (diameter in inches)<sup>2</sup> × 0.0054542.

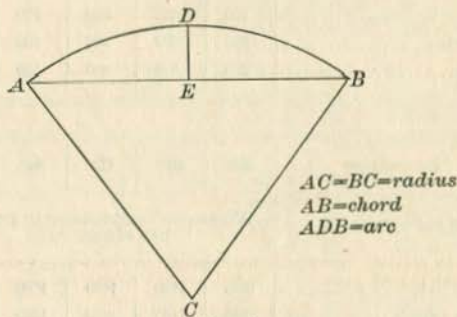


FIG. 4

Area sector CADBC = arc ADB ×  $\frac{1}{2}$  radius.

Area segment ADDBEA =  $\frac{1}{2}$  [arc ADB × radius -  
 chord AB (radius - K)],

where  $K = \frac{1}{2} (\text{diameter} - \sqrt{\text{square of diameter} - \text{square of chord}})$ .

Chord of an arc =  $\sqrt{\text{square of diameter} - (\text{diameter} - 2K)^2}$ .

Length of circular arc — Huyghens's Approximation.

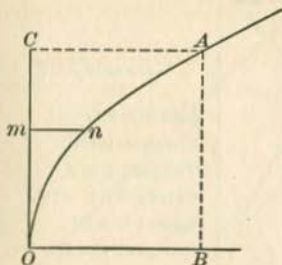
Let C represent the length of the chord of the arc, and c the length of chord of half the arc; the length of the

$$\text{arc } L = \frac{8c - C}{8}.$$

**Ellipse**

Area = long diameter  $\times$  short diameter  $\times$  0.7854.

**Parabola**



$$\text{Area OAB} = \frac{2}{3} \times \overline{OB} \times \overline{AB}.$$

$$\text{Ordinate } mn = CA \times \frac{\overline{mO}^2}{\overline{CO}^2}.$$

FIG. 5

**Parallelogram**

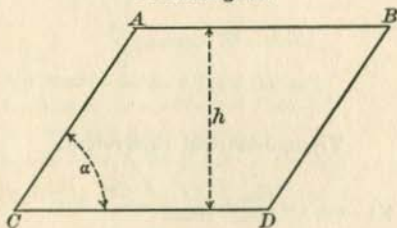


FIG. 6

Area = base  $\times$  perpendicular height =  $CD \times h$  = product of adjacent sides  $\times$  sine of included angle =  $CD \times CA \times \sin \alpha$ .

**Pyramid or Cone**

Volume =  $\frac{1}{3}$  area of base  $\times$  perpendicular height.

**Prism or Cylinder—Right or Oblique**

Volume = area of base  $\times$  perpendicular height.

**Sphere**

Volume = cube of diameter  $\times$  0.5236.

**Trapezoid**

Area = half the sum of parallel sides  $\times$  perpendicular height between same.

**Triangle**

See Trigonometry.

## Trigonometry

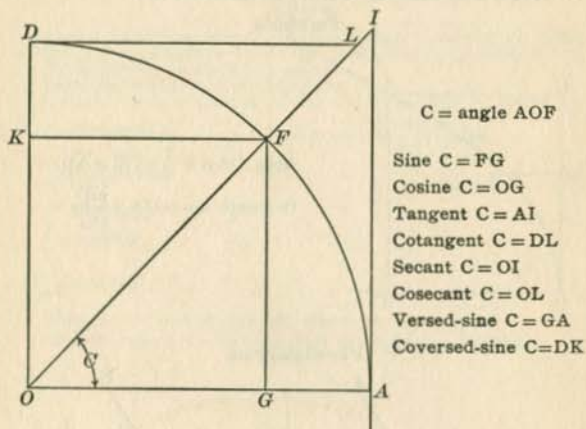


FIG. 1

### Trigonometrical Equivalents

$$\text{Sin.} = \sqrt{1 - \text{Cos.}^2} = \frac{\text{cos.}}{\text{cot.}} = \frac{1}{\text{cosec.}}$$

$$\text{Cos.} = \sqrt{1 - \text{sin.}^2} = \frac{\text{sin.}}{\text{tan.}} = \frac{1}{\text{sec.}} = \text{sin.} \times \text{cot.}$$

$$\text{Tan.} = \frac{1}{\text{cot.}} = \frac{\text{sin.}}{\text{cos.}} \qquad \text{Cot.} = \frac{1}{\text{tan.}} = \frac{\text{cos.}}{\text{sin.}}$$

$$\text{Sec.} = \frac{1}{\text{cos.}} = \frac{\text{tan.}}{\text{sin.}} = \sqrt{\text{rad.}^2 + \text{tan.}^2} \qquad \text{Cosec.} = \frac{1}{\text{sin.}}$$

$$\text{Vers.} = \text{Rad.} - \text{cos.} \qquad \text{Covers.} = \text{Rad.} - \text{sin.}$$

$$\text{Rad.} = \sqrt{\text{sin.}^2 + \text{cos.}^2}$$

$$1 = \text{sin.}^2 + \text{cos.}^2$$



Right Angled Triangles

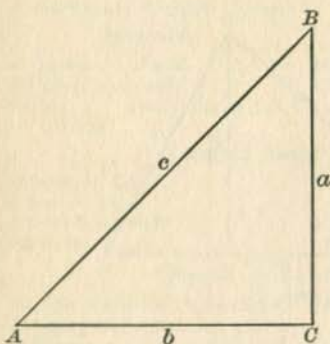


FIG. 2

$$\begin{aligned} \text{Sin. } A &= \frac{a}{c} \\ \text{Tan. } A &= \frac{a}{b} \\ \text{Sec. } A &= \frac{c}{b} \\ \text{Cos. } A &= \frac{b}{c} \\ \text{Cot. } A &= \frac{b}{a} \\ \text{Cosec. } A &= \frac{c}{a} \end{aligned}$$

Important Functions

$$\text{Sin. } (A + B) = \text{sin. } A \text{ cos. } B + \text{cos. } A \text{ sin. } B.$$

$$\text{Sin. } (A - B) = \text{sin. } A \text{ cos. } B - \text{cos. } A \text{ sin. } B.$$

$$\text{Cos. } (A + B) = \text{cos. } A \text{ cos. } B - \text{sin. } A \text{ sin. } B.$$

$$\text{Cos. } (A - B) = \text{cos. } A \text{ cos. } B + \text{sin. } A \text{ sin. } B.$$

$$\text{Tan. } (A + B) = \frac{\text{tan. } A + \text{tan. } B}{1 - \text{tan. } A \text{ tan. } B}$$

$$\text{Tan. } (A - B) = \frac{\text{tan. } A - \text{tan. } B}{1 + \text{tan. } A \text{ tan. } B}$$

$$\text{Cot. } (A + B) = \frac{\text{cot. } A \text{ cot. } B - 1}{\text{cot. } B + \text{cot. } A}$$

$$\text{Cot. } (A - B) = \frac{\text{cot. } A \text{ cot. } B + 1}{\text{cot. } B - \text{cot. } A}$$

$$\text{Sin. } 2A = 2 \text{ sin. } A \text{ cos. } A$$

$$\text{Cos. } 2A = \text{cos.}^2 A - \text{sin.}^2 A = 2 \text{ cos.}^2 A - 1 = 1 - 2 \text{ sin.}^2 A$$

$$\text{Tan. } 2A = \frac{2 \text{ tan. } A}{1 - \text{tan.}^2 A}$$

$$\text{Cot. } 2A = \frac{\text{cot.}^2 A - 1}{2 \text{ cot. } A}$$

$$\text{Sin. } \frac{1}{2} A = \pm \sqrt{\frac{1 - \text{cos. } A}{2}}$$

$$\text{Cos. } \frac{1}{2} A = \pm \sqrt{\frac{1 + \text{cos. } A}{2}}$$

$$\text{Tan. } \frac{1}{2} A = \pm \sqrt{\frac{1 - \text{cos. } A}{1 + \text{cos. } A}}$$

$$\text{Cot. } \frac{1}{2} A = \pm \sqrt{\frac{1 + \text{cos. } A}{1 - \text{cos. } A}}$$

## Oblique Angled Triangles

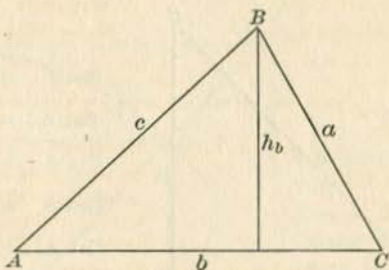


FIG. 3

$$\frac{a}{\sin. A} = \frac{b}{\sin. B} = \frac{c}{\sin. C}$$

$$a + b : a - b :: \tan. \frac{1}{2} (A + B) : \tan. \frac{1}{2} (A - B).$$

$$b + c : b - c :: \tan. \frac{1}{2} (B + C) : \tan. \frac{1}{2} (B - C).$$

$$a + c : a - c :: \tan. \frac{1}{2} (A + C) : \tan. \frac{1}{2} (A - C).$$

$$a = b \cos. C + c \cos. B. \quad b = a \cos. C + c \cos. A.$$

$$c = a \cos. B + b \cos. A.$$

$$\cos. A = \frac{b^2 + c^2 - a^2}{2bc}$$

$$\cos. B = \frac{a^2 + c^2 - b^2}{2ac}$$

$$\cos. C = \frac{a^2 + b^2 - c^2}{2ab}$$

$$\left. \begin{aligned} c^2 &= a^2 + b^2 \pm 2ab \cos. C \\ a^2 &= b^2 + c^2 \pm 2bc \cos. A \\ b^2 &= a^2 + c^2 \pm 2ac \cos. B \end{aligned} \right\} \begin{array}{l} \text{Use minus sign when the} \\ \text{angle is acute and plus sign} \\ \text{when obtuse.} \end{array}$$

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)} \quad \text{where } s = \frac{1}{2}(a+b+c).$$

$$\text{Area} = \frac{1}{2} b \times hb = \frac{1}{2} c \times hc = \frac{1}{2} a \times ha.$$

$$\text{Area} = \frac{1}{2} b \times c \times \sin. A = \frac{1}{2} c \times a \times \sin. B = \frac{1}{2} a \times b \times \sin. C.$$

## Weights and Measures

### Avoirdupois Weight—Long Measure

16 ounces = 1 pound.  
 112 pounds = 1 cwt.  
 20 cwt. = 1 gross ton = 2240 pounds.

### Avoirdupois Weight Short Measure

16 ounces = 1 pound.  
 100 pounds = 1 cwt.  
 20 cwt. = 1 ton = 2000 pounds.

### Long or Linear Measure

12 inches = 1 foot.  
 3 feet = 1 yard.  
 5.5 yards = 1 rod.  
 320 rods = 1 mile.

1 mile = 320 rods = 1760 yards  
 = 5280 feet = 63,360 inches.  
 1 Gunter's chain = 66 feet.  
 80 Gunter's chains = 1 mile.

### Square or Land Measure

144 square inches = 1 square foot.  
 9 square feet = 1 square yard.  
 30.25 square yards = 1 square rod.  
 160 square rods = 1 acre.

640 acres = 1 square mile.  
 1 acre = 160 square rods = 4840 square yards = 43,560 square feet.

### Cubic or Solid Measure

1728 cubic inches = 1 cubic foot.  
 27 cubic feet = 1 cubic yard.

A perch of masonry = 24.75 cubic feet — usually assumed 25 cubic feet.

### Conversion of Liquid and Dry Measure to Cubic Measure

1 gallon liquid = 231.0 cubic inches = 0.134 cubic feet.  
 1 bushel dry = 2150.42 cubic inches = 1.244 cubic feet.

## Metric System

### Linear Measure

Millimeter = 0.001 meter.  
 Centimeter = 0.01 meter.  
 Decimeter = 0.1 meter.  
 Dekameter = 10 meters.  
 Hectometer = 100 meters.  
 Kilometer = 1000 meters.

### Measures of Surface
















Square millimeter = 0.000001 square meter.  
 Square centimeter = 0.0001 square meter.  
 Square decimeter = 0.01 square meter.  
 Centare = 1 square meter.  
 Are = 100 square meters.  
 Hectare = 10,000 square meters.  
 Square kilometer = 1,000,000 square meters.



PITTSBURGH STEEL PRODUCTS COMPANY

Plain Wire

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

Full Sizes	Gauge	Weight, 1 Mile Pounds	Feet Pounds
	1	1121	4.71
	2	968	5.45
	3	833	6.34
	4	707	7.47
	5	599	8.81
	6	514	10.28
	7	439	12.05
	8	367	14.37
	9	306	17.24
	10	255	20.70
	11	202	26.18
	12	154	34.25
	13	118	44.64
	14	89	59.17
	15	72	73.00
	16	55	95.24
	17	41	129.87
	18	31	172.11
	19	24	222.22
	20	17	312.50

PITTSBURGH STEEL PRODUCTS COMPANY

Smooth Steel Wire

Manufactured by Pittsburgh Steel Company, Pittsburgh, Pa.

Size, Weight and Length of Wire

Standard Gauge	Diameter Decimal of an Inch	Approximate Weight	
		100 Feet Pounds	One Mile Pounds
000	.3625	35.0500	1851.00
00	.3310	29.2200	1543.00
0	.3065	25.0600	1323.00
1	.2830	21.3600	1128.00
2	.2625	18.3800	970.00
3	.2437	15.8400	826.00
4	.2253	13.5400	715.00
5	.2070	11.4300	603.00
6	.1920	9.8220	519.00
7	.1770	8.3560	441.00
8	.1620	7.0000	369.00
9	.1483	5.8660	309.00
10	.1350	4.8610	256.00
11	.1205	3.8730	204.00
12	.1055	2.9690	156.00
13	.0915	2.2330	117.00
14	.0800	1.7070	90.00
15	.0720	1.3330	73.00
16	.0625	1.0420	55.00
17	.0540	.7778	41.00
18	.0475	.6018	31.77
19	.0410	.4484	23.67
20	.0348	.3230	17.00
21	.0317	.2680	14.15
22	.0286	.2182	11.52
23	.0258	.17750	9.370
24	.0230	.14110	7.450
25	.0204	.11100	5.860
26	.0181	.08738	4.610
27	.0173	.07983	4.215
28	.0162	.07000	3.696
29	.0150	.06001	3.169
30	.0140	.05228	2.760
31	.0132	.04647	2.454
32	.0128	.04370	2.307
33	.0118	.03714	1.961

PITTSBURGH STEEL PRODUCTS COMPANY

Table of Comparative Sizes Wire Gauge  
In Decimals of an Inch

No. of Wire Gauge	Pittsburgh Steel Co. or Washburn & Moen	Birmingham or Stubb's	Brown & Sharpe	English Legal Standard	Old English or London
000000	.460	...	....	.464	...
00000	.430	...	....	.432	...
0000	.393	.454	.46000	.400	.4540
000	.362	.425	.40964	.372	.4250
00	.331	.380	.36480	.348	.3800
0	.307	.340	.32495	.324	.3400
1	.288	.300	.28930	.300	.3000
2	.268	.284	.25763	.276	.2840
3	.244	.259	.22942	.252	.2590
4	.225	.238	.20431	.232	.2380
5	.207	.220	.18194	.212	.2200
6	.192	.203	.16202	.192	.2030
7	.177	.180	.14428	.176	.1800
8	.162	.165	.12849	.160	.1650
9	.148	.148	.11443	.144	.1480
10	.135	.134	.10189	.128	.1340
11	.120	.120	.09074	.116	.1200
12	.105	.109	.08081	.104	.1090
13	.092	.095	.07196	.092	.0950
14	.080	.083	.06408	.080	.0830
15	.072	.072	.05707	.072	.0720
16	.063	.065	.05082	.064	.0650
17	.054	.058	.04526	.056	.0580
18	.047	.049	.04030	.048	.0490
19	.041	.042	.03589	.040	.0400
20	.035	.035	.03196	.036	.0350
21	.032	.032	.02846	.032	.0315
22	.028	.028	.02535	.028	.0285
23	.025	.025	.02257	.024	.0270
24	.023	.022	.02010	.022	.0250
25	.020	.020	.01790	.020	.0230
26	.018	.018	.01594	.018	.0205
27	.017	.016	.01419	.0164	.01875
28	.016	.014	.01264	.0148	.01650
29	.015	.013	.01126	.0136	.01550
30	.014	.012	.01002	.0124	.01375
31	.0135	.010	.00893	.0116	.01225
32	.0130	.009	.00795	.0108	.01125
33	.0110	.008	.00708	.0100	.01025
34	.0100	.007	.00630	.0092	.00950
35	.0095	.005	.00561	.0084	.00900
36	.0090	.004	.00500	.0076	.00750
37	.0085	...	.00445	.0068	.00650
38	.0080	...	.00396	.0060	.00575
39	.0075	...	.00353	.0052	.00500
40	.0070	...	.00314	.0048	.00450

Weights and Areas of Square and Round Bars  
and Circumferences of Round Bars

One Cubic Foot of Steel Weighing 489.6 Pounds

Thickness or Diameter in Inches	Weight of □ Bar One Foot Long	Weight of ○ Bar One Foot Long	Area of □ Bar in Square Inches	Area of ○ Bar in Square Inches	Circum. of ○ Bar in Inches
<b>0</b>					
1-16	.013	.010	.0039	.0031	.1963
1-8	.053	.042	.0156	.0123	.3927
3-16	.119	.094	.0352	.0276	.5890
1-4	.212	.167	.0625	.0491	.7854
5-16	.333	.261	.0977	.0767	.9817
3-8	.478	.375	.1406	.1104	1.1781
7-16	.651	.511	.1914	.1503	1.3744
1-2	.850	.667	.2500	.1963	1.5708
9-16	1.076	.845	.3164	.2485	1.7671
5-8	1.328	1.043	.3906	.3068	1.9635
11-16	1.608	1.262	.4727	.3712	2.1598
3-4	1.913	1.502	.5625	.4418	2.3562
13-16	2.245	1.763	.6602	.5185	2.5525
7-8	2.603	2.044	.7656	.6013	2.7489
15-16	2.989	2.347	.8789	.6903	2.9452
<b>1</b>	3.400	2.670	1.0000	.7854	3.1416
1-16	3.838	3.014	1.1289	.8866	3.3379
1-8	4.303	3.379	1.2656	.9940	3.5343
3-16	4.795	3.766	1.4102	1.1075	3.7306
1-4	5.312	4.173	1.5625	1.2272	3.9270
5-16	5.857	4.600	1.7327	1.3530	4.1233
3-8	6.428	5.049	1.8906	1.4849	4.3197
7-16	7.026	5.518	2.0664	1.6230	4.5160
1-2	7.650	6.008	2.2500	1.7671	4.7124
9-16	8.301	6.520	2.4414	1.9175	4.9087
5-8	8.978	7.051	2.6406	2.0739	5.1051
11-16	9.682	7.604	2.8477	2.2365	5.3014
3-4	10.410	8.178	3.0625	2.4053	5.4978
13-16	11.170	8.773	3.2852	2.5802	5.6941
7-8	11.950	9.388	3.5156	2.7612	5.8905
15-16	12.760	10.020	3.7539	2.9483	6.0868
<b>2</b>	13.600	10.680	4.0000	3.1416	6.2832



## PITTSBURGH STEEL PRODUCTS COMPANY

Fractions of an Inch in Decimals of an Inch  
and of a Foot

1-32	1-16	1-8	Inch	Foot
1	....	....	.03125	.0026
2	1	....	.06250	.0052
3	....	....	.09375	.0078
4	2	1	.12500	.0104
5	....	....	.15625	.0130
6	3	....	.18750	.0156
7	....	...	.21875	.0182
8	4	2	.25000	.0208
9	....	...	.28125	.0234
10	5	....	.31250	.0260
11	....	....	.34375	.0286
12	6	3	.37500	.0313
13	....	....	.40625	.0339
14	7	....	.43750	.0365
15	....	....	.46875	.0391
16	8	4	.50000	.0417
17	....	....	.53125	.0443
18	9	....	.56250	.0469
19	....	....	.59375	.0495
20	10	5	.62500	.0521
21	....	....	.65625	.0547
22	11	....	.68750	.0573
23	....	....	.71875	.0599
24	12	6	.75000	.0625
25	....	....	.78125	.0651
26	13	....	.81250	.0677
27	....	....	.84375	.0703
28	14	7	.87500	.0729
29	....	...	.90625	.0755
30	15	....	.93750	.0781
31	....	....	.96875	.0807
32	16	8	1.00000	1.0000

## PITTSBURGH STEEL PRODUCTS COMPANY

Decimals of a Foot for Each  $\frac{1}{32}$  of an Inch

Inch	0'	1'	2'	3'	4'	5'
0	0	.0833	.1667	.2500	.3333	.4167
1-32	.0026	.0859	.1693	.2526	.3359	.4193
1-16	.0052	.0885	.1719	.2552	.3385	.4219
3-32	.0078	.0911	.1745	.2578	.3411	.4245
1-8	.0104	.0937	.1771	.2604	.3437	.4271
5-32	.0130	.0964	.1797	.2630	.3464	.4297
3-16	.0156	.0990	.1823	.2656	.3490	.4323
7-32	.0182	.1016	.1849	.2682	.3516	.4349
1-4	.0208	.1042	.1875	.2708	.3542	.4375
9-32	.0234	.1068	.1901	.2734	.3568	.4401
5-16	.0260	.1094	.1927	.2760	.3594	.4427
11-32	.0286	.1120	.1953	.2786	.3620	.4453
3-8	.0312	.1146	.1979	.2812	.3646	.4479
13-32	.0339	.1172	.2005	.2839	.3672	.4505
7-16	.0365	.1198	.2031	.2865	.3698	.4531
15-32	.0391	.1224	.2057	.2891	.3724	.4557
1-2	.0417	.1250	.2083	.2917	.3750	.4583
17-32	.0443	.1276	.2109	.2943	.3776	.4609
9-16	.0469	.1302	.2135	.2969	.3802	.4635
19-32	.0495	.1328	.2161	.2995	.3828	.4661
5-8	.0521	.1354	.2188	.3021	.3854	.4688
21-32	.0547	.1380	.2214	.3047	.3880	.4714
11-16	.0573	.1406	.2240	.3073	.3906	.4740
23-32	.0599	.1432	.2266	.3099	.3932	.4766
3-4	.0625	.1458	.2292	.3125	.3958	.4792
25-32	.0651	.1484	.2318	.3151	.3984	.4818
13-16	.0677	.1510	.2344	.3177	.4010	.4844
27-32	.0703	.1536	.2370	.3203	.4036	.4870
7-8	.0729	.1562	.2396	.3229	.4062	.4896
29-32	.0755	.1589	.2422	.3255	.4089	.4922
15-16	.0781	.1615	.2448	.3281	.4115	.4948
31-32	.0807	.1641	.2474	.3307	.4141	.4974

PITTSBURGH STEEL PRODUCTS COMPANY

Decimals of a Foot for Each  $\frac{1}{32}$  of an Inch

Inch	6'	7'	8'	9'	10'	11'
0	.5000	.5833	.6667	.7500	.8333	.9167
1-32	.5026	.5859	.6693	.7526	.8359	.9193
1-16	.5052	.5885	.6719	.7552	.8385	.9219
3-32	.5078	.5911	.6745	.7578	.8411	.9245
1-8	.5104	.5937	.6771	.7604	.8437	.9271
5-32	.5130	.5964	.6797	.7630	.8464	.9297
3-16	.5156	.5990	.6823	.7656	.8490	.9323
7-32	.5182	.6016	.6849	.7682	.8516	.9349
1-4	.5208	.6042	.6875	.7708	.8542	.9375
9-32	.5234	.6068	.6901	.7734	.8568	.9401
5-16	.5260	.6094	.6927	.7760	.8594	.9427
11-32	.5286	.6120	.6953	.7786	.8620	.9453
3-8	.5312	.6146	.6979	.7812	.8646	.9479
13-32	.5339	.6172	.7005	.7839	.8672	.9505
7-16	.5365	.6198	.7031	.7865	.8698	.9531
15-32	.5391	.6224	.7057	.7891	.8724	.9557
1-2	.5417	.6250	.7083	.7917	.8750	.9583
17-32	.5443	.6276	.7109	.7943	.8776	.9609
9-16	.5469	.6302	.7135	.7969	.8802	.9635
19-32	.5495	.6328	.7161	.7995	.8828	.9661
5-8	.5521	.6354	.7188	.8021	.8854	.9688
21-32	.5547	.6380	.7214	.8047	.8880	.9714
11-16	.5573	.6406	.7240	.8073	.8906	.9740
23-32	.5599	.6432	.7266	.8099	.8932	.9766
3-4	.5625	.6458	.7292	.8125	.8958	.9792
25-32	.5651	.6484	.7318	.8151	.8984	.9818
13-16	.5677	.6510	.7344	.8177	.9010	.9844
27-32	.5703	.6536	.7370	.8203	.9036	.9870
7-8	.5729	.6562	.7396	.8229	.9062	.9896
29-32	.5755	.6589	.7422	.8255	.9089	.9922
15-16	.5781	.6615	.7448	.8281	.9115	.9948
31-32	.5807	.6641	.7474	.8307	.9141	.9974

## Average Weights of Materials in Pounds

	Weight per Cubic Foot
Aluminum . . . . .	162
Anthracite, solid . . . . .	93
Anthracite, broken, loose . . . . .	54
Ashes, anthracite . . . . .	30
Asphalt, top and binder . . . . .	107
Brass (copper and zinc), cast . . . . .	504
Brass, rolled . . . . .	524
Brick, pressed . . . . .	150
Brick, common . . . . .	125
Brick, soft . . . . .	100
Brickwork, pressed, thin joints . . . . .	140
Brickwork, common, $\frac{3}{8}$ -inch joints . . . . .	120
Brickwork, soft, $\frac{3}{8}$ -inch joints . . . . .	100
Bronze . . . . .	529
Cement, Portland, packed . . . . .	108-115
Cement, Portland, loose . . . . .	92
Cement, Portland, standard for proportions . . . . .	100
Cement, Portland, per barrel, net . . . . .	376
Cement, Portland, per bag, net . . . . .	94
Cement barrel . . . . .	15-30
Cement, natural, per barrel, net . . . . .	282
Cement, natural, per bag, net . . . . .	94
Cinders, bituminous . . . . .	45
Clay, potters, dry . . . . .	119
Clay, in lump, loose . . . . .	63
Coal, bituminous, solid . . . . .	85
Coal, bituminous, broken, loose . . . . .	52
Coke, loose, of good coal . . . . .	26
Concrete, cinder . . . . .	110
Concrete, broken stone or gravel . . . . .	145
Concrete, cyclopean . . . . .	155
Concrete, stone or gravel, reinforced . . . . .	150
Copper, cast . . . . .	542
Copper, rolled . . . . .	548
Earth, common loam, dry, loose . . . . .	76
Earth, common loam, dry, rammed . . . . .	100
Earth, common loam, as a soft flowing mud . . . . .	110
Flint . . . . .	162
Glass, common window . . . . .	157
Gneiss, common . . . . .	170
Gold, cast, pure, or 24 carat . . . . .	1204
Gold, pure, hammered . . . . .	1217

PITTSBURGH STEEL PRODUCTS COMPANY

Average Weights of Materials in Pounds—Con.

	Weight per Cubic Foot
Grain . . . . .	48
Granite . . . . .	170
Gravel, clean . . . . .	100
Gravel, sand and clay, dry . . . . .	100
Gravel, sand and clay, wet . . . . .	115
Gypsum (plaster of paris) . . . . .	142
Ice . . . . .	58
Iron, cast . . . . .	450
Iron, wrought, average . . . . .	480
Lead . . . . .	711
Lime, quick, ground, loose, or in small lumps . . . . .	53
Lime, quick, ground, loose, thoroughly shaken . . . . .	75
Lime, per barrel . . . . .	230
Limestones and marbles . . . . .	165
Limestones and marbles, loose, in irregular frag- ments . . . . .	96
Lumber, see timber.	
Marbles, see limestones.	
Masonry, granite ashlar . . . . .	165
Masonry, limestone marble ashlar . . . . .	160
Masonry, sandstone ashlar . . . . .	140
Masonry, granite, mortar rubble . . . . .	155
Masonry, limestone, mortar rubble . . . . .	150
Masonry, sandstone, mortar rubble . . . . .	130
Masonry, granite, dry rubble . . . . .	130
Masonry, limestone, dry rubble . . . . .	125
Masonry, sandstone, dry rubble . . . . .	110
Mortar, lime, hard . . . . .	105
Mortar, natural cement, hard . . . . .	120
Mortar, Portland cement, hard . . . . .	135
Mud, dry, close . . . . .	80-100
Mud, wet . . . . .	110
Quartz, common, pure . . . . .	165
Rock, loose . . . . .	100
Rosin . . . . .	69
Salt, coarse . . . . .	45
Sand, dry . . . . .	90
Sand, wet . . . . .	115
Sandstone . . . . .	151
Silver . . . . .	655
Slate . . . . .	175
Snow, fresh . . . . .	8

PITTSBURGH STEEL PRODUCTS COMPANY

Average Weights of Materials in Pounds—Con.

	Weight per Cubic Foot
Steel . . . . .	490
Stone, broken . . . . .	95
Sulphur . . . . .	125
Tar . . . . .	62
Timber :	
Ash, American, white, dry . . . . .	38
Cedar, dry . . . . .	23
Cherry, dry . . . . .	42
Chestnut, dry . . . . .	41
Cypress . . . . .	29
Elm, dry . . . . .	35
Fir, yellow and red . . . . .	30
Hemlock, dry . . . . .	25
Hickory, dry . . . . .	53
Lignum Vitæ, dry . . . . .	41-83
Mahogany, Spanish, dry . . . . .	53
Mahogany, Honduras, dry . . . . .	35
Maple, dry . . . . .	49
Oak, white, dry . . . . .	50
Pine, white, dry . . . . .	25
Pine, yellow, short leaf, dry . . . . .	35
Pine, yellow, long leaf, dry . . . . .	40
Pine, red, Norway, dry . . . . .	31
Poplar, dry . . . . .	29
Redwood, California, dry . . . . .	24
Spruce, dry . . . . .	25
Sycamore, dry . . . . .	37
Walnut, black, dry . . . . .	38
Tin, cast . . . . .	459
Water, fresh . . . . .	62½
Water, salt . . . . .	64
Wood, see timber.	
Zinc or Spelter . . . . .	437½

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
1	1	1	1.0000	1.0000	1000.000	3.142	0.7854
2	4	8	1.4142	1.2599	500.000	6.283	3.1416
3	9	27	1.7321	1.4422	333.333	9.425	7.0686
4	16	64	2.0000	1.5874	250.000	12.566	12.5664
5	25	125	2.2361	1.7100	200.000	15.708	19.6350
6	36	216	2.4495	1.8171	166.667	18.850	28.2743
7	49	343	2.6458	1.9129	142.857	21.991	38.4845
8	64	512	2.8284	2.0000	125.000	25.138	50.2655
9	81	729	3.0000	2.0801	111.111	28.274	63.6173
10	100	1000	3.1623	2.1544	100.000	31.416	78.5398
11	121	1331	3.3166	2.2240	90.9091	34.558	95.0332
12	144	1728	3.4641	2.2894	83.3333	37.699	113.097
13	169	2197	3.6056	2.3513	76.9231	40.841	132.732
14	196	2744	3.7417	2.4101	71.4286	43.982	153.988
15	225	3375	3.8730	2.4662	66.6667	47.124	176.715
16	256	4096	4.0000	2.5198	62.5000	50.265	201.062
17	289	4913	4.1231	2.5713	58.8235	53.407	226.980
18	324	5832	4.2426	2.6207	55.5556	56.549	254.469
19	361	6859	4.3589	2.6684	52.6316	59.690	283.529
20	400	8000	4.4721	2.7144	50.0000	62.832	314.159
21	441	9261	4.5826	2.7589	47.6190	65.973	346.361
22	484	10648	4.6904	2.8020	45.4545	69.115	380.133
23	529	12167	4.7958	2.8439	43.4783	72.257	415.476
24	576	13824	4.8990	2.8845	41.6667	75.398	452.389
25	625	15625	5.0000	2.9240	40.0000	78.540	490.874
26	676	17776	5.0990	2.9625	38.4615	81.681	530.929
27	729	19683	5.1962	3.0000	37.0370	84.823	572.555
28	784	21952	5.2915	3.0366	35.7143	87.965	615.752
29	841	24389	5.3852	3.0723	34.4828	91.106	660.520
30	900	27000	5.4772	3.1072	33.3333	94.248	706.858
31	961	29791	5.5678	3.1414	32.2581	97.389	754.768
32	1024	32768	5.6569	3.1748	31.2500	100.531	804.248
33	1089	35937	5.7446	3.2075	30.3030	103.673	855.299
34	1156	39304	5.8310	3.2396	29.4118	106.814	907.920
35	1225	42875	5.9161	3.2711	28.5714	109.956	962.113
36	1296	46656	6.0000	3.3019	27.7778	113.097	1017.88
37	1369	50653	6.0828	3.3322	27.0270	116.239	1075.21
38	1444	54872	6.1644	3.3620	26.3158	119.381	1134.11
39	1521	59319	6.2450	3.3912	25.6410	122.522	1194.59
40	1600	64000	6.3246	3.4200	25.0000	125.66	1256.64
41	1681	68921	6.4031	3.4482	24.3902	128.81	1320.25
42	1764	74088	6.4807	3.4760	23.8095	131.95	1385.44
43	1849	79507	6.5574	3.5034	23.2558	135.09	1452.20
44	1936	85184	6.6332	3.5308	22.7273	138.23	1520.53
45	2025	91125	6.7082	3.5569	22.2222	141.37	1590.43
46	2116	97336	6.7823	3.5830	21.7391	144.51	1661.90
47	2209	103823	6.8557	3.6088	21.2766	147.65	1734.94
48	2304	110592	6.9282	3.6342	20.8333	150.80	1809.56
49	2401	117649	7.0000	3.6593	20.4082	153.94	1885.74

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
50	2500	125000	7.0711	3.6840	20.0000	157.08	1968.50
51	2601	132651	7.1414	3.7084	19.6078	160.22	2042.82
52	2704	140608	7.2111	3.7325	19.2308	163.36	2123.72
53	2809	148877	7.2801	3.7563	18.8679	166.50	2206.18
54	2916	157464	7.3485	3.7798	18.5185	169.65	2290.22
55	3025	166375	7.4162	3.8030	18.1818	172.79	2375.83
56	3136	175616	7.4833	3.8259	17.8571	175.98	2463.01
57	3249	185193	7.5498	3.8485	17.5439	179.07	2551.76
58	3364	195112	7.6158	3.8709	17.2414	182.21	2642.08
59	3481	205379	7.6811	3.8930	16.9492	185.35	2733.97
60	3600	216000	7.7460	3.9149	16.6667	188.50	2827.43
61	3721	226981	7.8102	3.9365	16.3934	191.64	2922.47
62	3844	238328	7.8740	3.9579	16.1290	194.78	3019.07
63	3969	250047	7.9373	3.9791	15.8730	197.92	3117.25
64	4096	262144	8.0000	4.0000	15.6250	201.06	3216.99
65	4225	274625	8.0623	4.0207	15.3846	204.20	3318.31
66	4356	287496	8.1240	4.0412	15.1515	207.35	3421.19
67	4489	300763	8.1854	4.0615	14.9254	210.49	3525.65
68	4624	314432	8.2462	4.0817	14.7059	213.63	3631.68
69	4761	328509	8.3066	4.1016	14.4928	216.77	3739.28
70	4900	343000	8.3666	4.1213	14.2857	219.91	3848.45
71	5041	357911	8.4261	4.1408	14.0845	223.05	3959.19
72	5184	373248	8.4853	4.1602	13.8889	226.19	4071.50
73	5329	389017	8.5440	4.1793	13.6986	229.34	4185.39
74	5476	405224	8.6023	4.1983	13.5135	232.48	4300.84
75	5625	421875	8.6603	4.2172	13.3333	235.62	4417.86
76	5776	438976	8.7178	4.2358	13.1579	238.76	4536.46
77	5929	456533	8.7750	4.2543	12.9870	241.90	4656.63
78	6084	474552	8.8318	4.2727	12.8205	245.04	4778.36
79	6241	493039	8.8882	4.2908	12.6582	248.19	4901.67
80	6400	512000	8.9443	4.3089	12.5000	251.33	5026.55
81	6561	531441	9.0000	4.3267	12.3457	254.47	5153.00
82	6724	551368	9.0554	4.3445	12.1951	257.61	5281.02
83	6889	571787	9.1104	4.3621	12.0482	260.75	5410.61
84	7056	592704	9.1652	4.3795	11.9048	263.89	5541.77
85	7225	614125	9.2195	4.3968	11.7647	267.04	5674.50
86	7396	636056	9.2736	4.4140	11.6279	270.18	5808.80
87	7569	658503	9.3274	4.4310	11.4943	273.32	5944.68
88	7744	681472	9.3808	4.4480	11.3636	276.46	6082.12
89	7921	704969	9.4340	4.4647	11.2360	279.60	6221.14
90	8100	729000	9.4868	4.4814	11.1111	282.74	6361.73
91	8281	753571	9.5394	4.4979	10.9890	285.88	6503.88
92	8464	778688	9.5917	4.5144	10.8696	289.03	6647.61
93	8649	804357	9.6437	4.5307	10.7527	292.17	6792.91
94	8836	830584	9.6954	4.5468	10.6388	295.31	6939.78
95	9025	857375	9.7468	4.5629	10.5263	298.45	7088.22
96	9216	884736	9.7980	4.5789	10.4167	301.59	7238.23
97	9409	912673	9.8489	4.5947	10.3093	304.73	7389.81
98	9604	941192	9.8995	4.6104	10.2041	307.88	7542.96
99	9801	970299	9.9499	4.6261	10.1010	311.02	7697.69



PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
100	10000	1000000	10.0000	4.6416	10.0000	314.16	7853.98
101	10201	1030301	10.0499	4.6570	9.90099	317.30	8011.85
102	10404	1061208	10.0995	4.6723	9.80392	320.44	8171.28
103	10609	1092727	10.1489	4.6875	9.70874	323.58	8332.29
104	10816	1124864	10.1980	4.7027	9.61538	326.73	8494.87
105	11025	1157625	10.2470	4.7177	9.52381	329.87	8659.01
106	11236	1191016	10.2956	4.7326	9.43396	333.01	8824.73
107	11449	1225043	10.3441	4.7475	9.34579	336.15	8992.02
108	11664	1259712	10.3923	4.7622	9.25926	339.29	9160.88
109	11881	1295029	10.4403	4.7760	9.17431	342.43	9331.32
110	12100	1331000	10.4881	4.7914	9.09091	345.58	9503.32
111	12321	1367631	10.5357	4.8059	9.00901	348.72	9676.89
112	12544	1404928	10.5830	4.8203	8.92857	351.86	9852.03
113	12769	1442897	10.6301	4.8346	8.84956	355.00	10028.7
114	12996	1481544	10.6771	4.8488	8.77193	358.14	10207.0
115	13225	1520875	10.7238	4.8629	8.69565	361.28	10386.9
116	13456	1560896	10.7703	4.8770	8.62069	364.42	10568.3
117	13689	1601613	10.8167	4.8910	8.54701	367.57	10751.3
118	13924	1643032	10.8628	4.9049	8.47458	370.71	10935.9
119	14161	1685159	10.9087	4.9187	8.40336	373.85	11122.0
120	14400	1728000	10.9545	4.9324	8.33333	376.99	11309.7
121	14641	1771561	11.0000	4.9461	8.26446	380.13	11499.0
122	14884	1815848	11.0454	4.9597	8.19672	383.27	11689.9
123	15129	1860867	11.0905	4.9732	8.13008	386.42	11882.3
124	15376	1906624	11.1355	4.9866	8.06452	389.56	12076.3
125	15625	1953125	11.1803	5.0000	8.00000	392.70	12271.8
126	15876	2000376	11.2250	5.0133	7.93651	395.84	12469.0
127	16129	2048383	11.2694	5.0265	7.87402	398.98	12667.7
128	16384	2097152	11.3137	5.0397	7.81250	402.12	12868.0
129	16641	2146689	11.3578	5.0528	7.75194	405.27	13069.8
130	16900	2197000	11.4018	5.0658	7.69231	408.41	13273.2
131	17161	2248091	11.4455	5.0788	7.63359	411.55	13478.2
132	17424	2299968	11.4891	5.0916	7.57576	414.69	13684.8
133	17689	2352637	11.5326	5.1045	7.51880	417.83	13892.9
134	17956	2406104	11.5758	5.1172	7.46269	420.97	14102.6
135	18225	2460375	11.6190	5.1299	7.40741	424.12	14313.9
136	18496	2515456	11.6619	5.1426	7.35294	427.26	14526.7
137	18769	2571353	11.7047	5.1551	7.29927	430.40	14741.1
138	19044	2628072	11.7473	5.1676	7.24638	433.54	14957.1
139	19321	2685619	11.7898	5.1801	7.19424	436.68	15174.7
140	19600	2744000	11.8322	5.1925	7.14286	439.82	15393.8
141	19881	2803221	11.8743	5.2048	7.09220	442.96	15614.5
142	20164	2863288	11.9164	5.2171	7.04225	446.11	15836.8
143	20449	2924207	11.9583	5.2293	6.99301	449.25	16060.6
144	20736	2985984	12.0000	5.2415	6.94444	452.39	16286.0
145	21025	3048625	12.0416	5.2536	6.89655	455.53	16513.0
146	21316	3112136	12.0830	5.2656	6.84932	458.67	16741.5
147	21609	3176523	12.1244	5.2776	6.80272	461.81	16971.7
148	21904	3241792	12.1655	5.2896	6.75676	464.96	17203.4
149	22201	3307949	12.2066	5.3015	6.71141	468.10	17436.6

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
150	22500	3375000	12.2474	5.3183	6.66667	471.24	17671.5
151	22801	3442951	12.2882	5.3251	6.62252	474.38	17907.9
152	23104	3511808	12.3288	5.3368	6.57895	477.52	18145.8
153	23409	3581577	12.3693	5.3485	6.53595	480.66	18385.4
154	23716	3652264	12.4097	5.3601	6.49851	483.81	18626.5
155	24025	3723875	12.4499	5.3717	6.45161	486.95	18869.2
156	24336	3796416	12.4900	5.3832	6.41026	490.09	19118.4
157	24649	3869893	12.5300	5.3947	6.36943	493.23	19359.3
158	24964	3944312	12.5698	5.4061	6.32911	496.37	19606.7
159	25281	4019679	12.6095	5.4175	6.28931	499.51	19855.7
160	25600	4096000	12.6491	5.4288	6.25000	502.65	20106.2
161	25921	4173281	12.6886	5.4401	6.21118	505.80	20358.3
162	26244	4251528	12.7279	5.4514	6.17284	508.94	20612.0
163	26569	4330747	12.7671	5.4626	6.13497	512.08	20867.2
164	26896	4410944	12.8062	5.4737	6.09756	515.22	21124.1
165	27225	4492125	12.8452	5.4848	6.06061	518.36	21382.5
166	27556	4574296	12.8841	5.4959	6.02410	521.50	21642.4
167	27889	4657463	12.9228	5.5069	5.98802	524.65	21904.0
168	28224	4741632	12.9615	5.5178	5.95238	527.79	22167.1
169	28561	4826809	13.0000	5.5288	5.91716	530.93	22431.8
170	28900	4913000	13.0384	5.5397	5.88235	534.07	22698.0
171	29241	5000211	13.0767	5.5505	5.84795	537.21	22965.8
172	29584	5088448	13.1149	5.5613	5.81395	540.35	23235.2
173	29929	5177717	13.1529	5.5721	5.78035	543.50	23506.2
174	30276	5268024	13.1909	5.5828	5.74713	546.64	23778.7
175	30625	5359375	13.2288	5.5934	5.71429	549.78	24052.8
176	30976	5451776	13.2665	5.6041	5.68182	552.92	24328.5
177	31329	5545233	13.3041	5.6147	5.64972	556.06	24605.7
178	31684	5639752	13.3417	5.6252	5.61798	559.20	24884.6
179	32041	5735339	13.3791	5.6357	5.58659	562.35	25164.9
180	32400	5832000	13.4164	5.6462	5.55556	565.49	25446.9
181	32761	5929741	13.4536	5.6567	5.52486	568.63	25730.4
182	33124	6028568	13.4907	5.6671	5.49451	571.77	26015.5
183	33489	6128487	13.5277	5.6774	5.46448	574.91	26302.2
184	33856	6229504	13.5647	5.6877	5.43478	578.05	26590.4
185	34225	6331625	13.6015	5.6980	5.40541	581.19	26880.3
186	34596	6434856	13.6382	5.7083	5.37634	584.34	27171.6
187	34969	6539203	13.6748	5.7185	5.34759	587.48	27464.6
188	35344	6644672	13.7113	5.7287	5.31915	590.62	27759.1
189	35721	6751269	13.7477	5.7388	5.29101	593.76	28055.2
190	36100	6859000	13.7840	5.7489	5.26316	596.90	28352.9
191	36481	6967871	13.8203	5.7590	5.23560	600.04	28652.1
192	36864	7077888	13.8564	5.7690	5.20833	603.19	28952.9
193	37249	7189057	13.8924	5.7790	5.18135	606.33	29255.3
194	37636	7301384	13.9284	5.7890	5.15464	609.47	29559.2
195	38025	7414875	13.9642	5.7989	5.12821	612.61	29864.8
196	38416	7529536	14.0000	5.8088	5.10204	615.75	30171.9
197	38809	7645373	14.0357	5.8186	5.07614	618.89	30480.5
198	39204	7762392	14.0712	5.8285	5.05051	622.04	30790.7
199	39601	7880599	14.1067	5.8383	5.02513	625.18	31102.6

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
200	40000	8000000	14.1421	5.8480	5.00000	628.32	31415.9
201	40401	8120601	14.1774	5.8578	4.97512	631.46	31780.9
202	40804	8242408	14.2127	5.8675	4.95050	634.60	32047.4
203	41209	8365427	14.2478	5.8771	4.92611	637.74	32305.5
204	41616	8489664	14.2829	5.8868	4.90196	640.89	32565.1
205	42025	8615125	14.3178	5.8964	4.87805	644.03	32806.4
206	42436	8741816	14.3527	5.9059	4.85437	647.17	33029.2
207	42849	8869743	14.3875	5.9155	4.83092	650.31	33253.5
208	43264	8998912	14.4222	5.9250	4.80769	653.45	33479.5
209	43681	9129329	14.4568	5.9345	4.78469	656.59	33707.0
210	44100	9261000	14.4914	5.9439	4.76190	659.73	33936.1
211	44521	9393931	14.5258	5.9533	4.73934	662.88	34166.7
212	44944	9528128	14.5602	5.9627	4.71698	666.02	34398.9
213	45369	9663597	14.5945	5.9721	4.69484	669.16	34632.7
214	45796	9800344	14.6287	5.9814	4.67290	672.30	34868.1
215	46225	9938375	14.6629	5.9907	4.65116	675.44	35105.0
216	46656	10077696	14.6969	6.0000	4.62963	678.58	35343.5
217	47089	10218313	14.7309	6.0092	4.60829	681.73	35583.6
218	47524	10360232	14.7648	6.0185	4.58716	684.87	35825.3
219	47961	10503459	14.7986	6.0277	4.56621	688.01	36068.5
220	48400	10648000	14.8324	6.0368	4.54545	691.15	36313.3
221	48841	10793861	14.8661	6.0459	4.52489	694.29	36559.6
222	49284	10941048	14.8997	6.0550	4.50450	697.43	36807.0
223	49729	11089567	14.9332	6.0641	4.48431	700.58	36957.1
224	50176	11239424	14.9666	6.0732	4.46429	703.72	37109.1
225	50625	11390625	15.0000	6.0822	4.44444	706.86	37263.8
226	51076	11543176	15.0333	6.0912	4.42478	710.00	40115.0
227	51529	11697089	15.0665	6.1002	4.40529	713.14	40470.8
228	51984	11852352	15.0997	6.1091	4.38596	716.28	40828.1
229	52441	12008989	15.1327	6.1180	4.36681	719.42	41187.1
230	52900	12167000	15.1658	6.1269	4.34783	722.57	41547.6
231	53361	12326391	15.1987	6.1358	4.32900	725.71	41909.6
232	53824	12487168	15.2315	6.1446	4.31034	728.85	42273.3
233	54289	12649337	15.2643	6.1534	4.29185	731.99	42638.5
234	54756	12812904	15.2971	6.1622	4.27350	735.13	43005.8
235	55225	12977875	15.3297	6.1710	4.25532	738.27	43373.6
236	55696	13144256	15.3623	6.1797	4.23729	741.42	43743.5
237	56169	13312053	15.3948	6.1885	4.21941	744.56	44115.0
238	56644	13481272	15.4272	6.1972	4.20168	747.70	44488.1
239	57121	13651919	15.4596	6.2058	4.18410	750.84	44862.7
240	57600	13824000	15.4919	6.2145	4.16667	753.98	45238.9
241	58081	13997521	15.5242	6.2231	4.14938	757.12	45616.7
242	58564	14172488	15.5563	6.2317	4.13223	760.27	45996.1
243	59049	14348907	15.5885	6.2403	4.11523	763.41	46377.0
244	59536	14526784	15.6205	6.2488	4.09836	766.55	46759.5
245	60025	14706125	15.6525	6.2573	4.08163	769.69	47143.5
246	60516	14886936	15.6844	6.2658	4.06504	772.83	47529.2
247	61009	15069223	15.7162	6.2743	4.04858	775.97	47916.4
248	61504	15252992	15.7480	6.2828	4.03229	779.12	48305.1
249	62001	15438249	15.7797	6.2912	4.01606	782.26	48695.5

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
250	62500	15625000	15.8114	6.2996	4.00000	785.40	49087.4
251	63001	15813251	15.8430	6.3080	3.98406	788.54	49480.9
252	63504	16003008	15.8745	6.3164	3.96825	791.68	49875.9
253	64009	16194277	15.9060	6.3247	3.95257	794.82	50272.6
254	64516	16387064	15.9374	6.3330	3.93701	797.96	50670.7
255	65025	16581875	15.9687	6.3413	3.92157	801.11	51070.5
256	65536	16779216	16.0000	6.3496	3.90625	804.25	51471.9
257	66049	16974598	16.0312	6.3579	3.89105	807.39	51874.8
258	66564	17173512	16.0624	6.3661	3.87597	810.53	52279.2
259	67081	17373979	16.0935	6.3743	3.86100	813.67	52685.3
260	67600	17576000	16.1245	6.3825	3.84615	816.81	53092.9
261	68121	17779581	16.1555	6.3907	3.83142	819.96	53502.1
262	68644	17984728	16.1864	6.3988	3.81679	823.10	53912.9
263	69169	18191447	16.2173	6.4070	3.80228	826.24	54325.2
264	69696	18399744	16.2481	6.4151	3.78788	829.38	54739.1
265	70225	18609625	16.2788	6.4232	3.77358	832.52	55154.6
266	70756	18821096	16.3095	6.4312	3.75940	835.66	55571.6
267	71289	19034163	16.3401	6.4393	3.74532	838.81	55990.3
268	71824	19248832	16.3707	6.4473	3.73134	841.95	56410.4
269	72361	19465109	16.4012	6.4553	3.71747	845.09	56832.2
270	72900	19683000	16.4317	6.4633	3.70370	848.23	57255.5
271	73441	19902511	16.4621	6.4713	3.69004	851.37	57680.4
272	73984	20123648	16.4924	6.4792	3.67647	854.51	58106.9
273	74529	20346417	16.5227	6.4872	3.66300	857.66	58534.9
274	75076	20570824	16.5529	6.4951	3.64964	860.80	58964.6
275	75625	20796875	16.5831	6.5030	3.63636	863.94	59395.7
276	76176	21024576	16.6132	6.5108	3.62319	867.08	59828.5
277	76729	21253933	16.6433	6.5187	3.61011	870.22	60262.8
278	77284	21484952	16.6733	6.5265	3.59712	873.36	60698.7
279	77841	21717639	16.7033	6.5343	3.58423	876.50	61136.2
280	78400	21952000	16.7332	6.5421	3.57143	879.65	61575.2
281	78961	22188041	16.7631	6.5499	3.55872	882.79	62015.8
282	79524	22425768	16.7929	6.5577	3.54610	885.93	62458.0
283	80089	22665187	16.8226	6.5654	3.53357	889.07	62901.8
284	80656	22906304	16.8523	6.5731	3.52113	892.21	63347.1
285	81225	23149125	16.8819	6.5808	3.50877	895.35	63794.0
286	81796	23393656	16.9115	6.5885	3.49650	898.50	64242.4
287	82369	23639903	16.9411	6.5962	3.48432	901.64	64692.5
288	82944	23887872	16.9706	6.6039	3.47222	904.78	65144.1
289	83521	24137569	17.0000	6.6115	3.46021	907.92	65597.2
290	84100	24389000	17.0294	6.6191	3.44828	911.06	66052.0
291	84681	24642171	17.0587	6.6267	3.43643	914.20	66508.3
292	85264	24897088	17.0880	6.6343	3.42466	917.35	66966.2
293	85849	25153757	17.1172	6.6419	3.41297	920.49	67425.6
294	86436	25412184	17.1464	6.6494	3.40136	923.63	67886.7
295	87025	25672375	17.1756	6.6569	3.38983	926.77	68349.3
296	87616	25934336	17.2047	6.6644	3.37838	929.91	68813.5
297	88209	26198073	17.2337	6.6719	3.36700	933.05	69279.2
298	88804	26463592	17.2627	6.6794	3.35570	936.19	69746.5
299	89401	26730899	17.2916	6.6869	3.34448	939.34	70215.4

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
300	90000	27000000	17.3205	6.6943	3.33333	942.48	70685.8
301	90601	27270901	17.3494	6.7018	3.32226	945.62	71157.9
302	91204	27543608	17.3781	6.7092	3.31126	948.76	71631.5
303	91809	27818127	17.4069	6.7166	3.30033	951.90	72106.6
304	92416	28094464	17.4356	6.7240	3.28947	955.04	72583.4
305	93025	28372625	17.4642	6.7313	3.27869	958.19	73061.7
306	93636	28652616	17.4929	6.7387	3.26797	961.33	73541.5
307	94249	28934443	17.5214	6.7460	3.25733	964.47	74023.0
308	94864	29218112	17.5499	6.7533	3.24675	967.61	74506.0
309	95481	29503629	17.5784	6.7606	3.23625	970.75	74990.6
310	96100	29791000	17.6068	6.7679	3.22581	973.89	75476.8
311	96721	30080231	17.6352	6.7752	3.21543	977.04	75964.5
312	97344	30371328	17.6635	6.7824	3.20513	980.18	76453.8
313	97969	30664297	17.6918	6.7897	3.19489	983.32	76944.7
314	98596	30959144	17.7200	6.7969	3.18471	986.46	77437.1
315	99225	31255875	17.7482	6.8041	3.17460	989.60	77931.1
316	99856	31554496	17.7764	6.8113	3.16456	992.74	78426.7
317	100489	31855013	17.8045	6.8185	3.15457	995.88	78923.9
318	101124	32157432	17.8326	6.8256	3.14465	999.03	79422.6
319	101761	32461759	17.8606	6.8328	3.13480	1002.2	79922.9
320	102400	32768000	17.8885	6.8399	3.12500	1005.3	80424.8
321	103041	33076161	17.9165	6.8470	3.11527	1008.5	80928.2
322	103684	33386248	17.9444	6.8541	3.10559	1011.6	81433.2
323	104329	33698267	17.9722	6.8612	3.09598	1014.7	81939.8
324	104976	34012324	18.0000	6.8683	3.08642	1017.9	82448.0
325	105625	34328425	18.0278	6.8753	3.07692	1021.0	82957.7
326	106276	34646576	18.0555	6.8824	3.06749	1024.2	83469.0
327	106929	34966783	18.0831	6.8894	3.05810	1027.3	83981.8
328	107584	35289052	18.1108	6.8964	3.04878	1030.4	84496.3
329	108241	35613389	18.1384	6.9034	3.03951	1033.6	85012.3
330	108900	35939800	18.1659	6.9104	3.03030	1036.7	85529.9
331	109561	36268289	18.1934	6.9174	3.02115	1039.9	86049.0
332	110224	36598864	18.2209	6.9244	3.01205	1043.0	86569.7
333	110889	36931531	18.2483	6.9313	3.00300	1046.2	87092.0
334	111556	37266304	18.2757	6.9382	2.99401	1049.3	87615.9
335	112225	37603189	18.3030	6.9451	2.98507	1052.4	88141.3
336	112896	37942196	18.3303	6.9521	2.97619	1055.6	88668.3
337	113569	38283331	18.3576	6.9590	2.96736	1058.7	89196.9
338	114244	38626600	18.3848	6.9658	2.95858	1061.9	89727.0
339	114921	38972009	18.4120	6.9727	2.94985	1065.0	90258.7
340	115600	39319560	18.4391	6.9795	2.94118	1068.1	90792.0
341	116281	39669261	18.4662	6.9864	2.93255	1071.3	91326.9
342	116964	40021112	18.4932	6.9932	2.92398	1074.4	91863.3
343	117649	40375119	18.5203	7.0000	2.91545	1077.6	92401.3
344	118336	40731284	18.5472	7.0068	2.90698	1080.7	92940.9
345	119025	41089605	18.5742	7.0136	2.89855	1083.8	93482.0
346	119716	41450084	18.6011	7.0203	2.89017	1087.0	94024.7
347	120409	41812723	18.6279	7.0271	2.88184	1090.1	94569.0
348	121104	42177524	18.6548	7.0338	2.87356	1093.3	95114.9
349	121801	42544489	18.6815	7.0406	2.86533	1096.4	95662.3

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
350	122500	42875000	18.7088	7.0473	2.85714	1099.6	96211.3
351	123201	43243551	18.7350	7.0540	2.84900	1102.7	96761.8
352	123904	43614208	18.7617	7.0607	2.84091	1105.8	97314.0
353	124609	43986977	18.7888	7.0674	2.83286	1109.0	97867.7
354	125316	44361864	18.8149	7.0740	2.82486	1112.1	98423.0
355	126025	44738875	18.8414	7.0807	2.81690	1115.3	98979.8
356	126736	45118016	18.8680	7.0873	2.80899	1118.4	99538.2
357	127449	45499293	18.8944	7.0940	2.80112	1121.5	100098
358	128164	45882712	18.9209	7.1006	2.79330	1124.7	100660
359	128881	46268279	18.9473	7.1072	2.78552	1127.8	101223
360	129600	46656000	18.9737	7.1138	2.77778	1131.0	101788
361	130321	47045881	19.0000	7.1204	2.77008	1134.1	102354
362	131044	47437928	19.0263	7.1269	2.76243	1137.3	102922
363	131769	47832147	19.0526	7.1335	2.75482	1140.4	103491
364	132496	48228544	19.0788	7.1400	2.74725	1143.5	104062
365	133225	48627125	19.1050	7.1466	2.73973	1146.7	104635
366	133956	49027896	19.1311	7.1531	2.73224	1149.8	105209
367	134689	49430863	19.1572	7.1596	2.72480	1153.0	105785
368	135424	49836032	19.1833	7.1661	2.71739	1156.1	106362
369	136161	50243409	19.2094	7.1726	2.71003	1159.2	106941
370	136900	50653000	19.2354	7.1791	2.70270	1162.4	107521
371	137641	51064811	19.2614	7.1855	2.69542	1165.5	108103
372	138384	51478848	19.2873	7.1920	2.68817	1168.7	108687
373	139129	51895117	19.3132	7.1984	2.68097	1171.8	109272
374	139876	52313624	19.3391	7.2048	2.67380	1175.0	109858
375	140625	52734375	19.3649	7.2112	2.66667	1178.1	110447
376	141376	53157376	19.3907	7.2177	2.65957	1181.2	111036
377	142129	53582633	19.4165	7.2240	2.65252	1184.4	111628
378	142884	54010152	19.4422	7.2304	2.64550	1187.5	112221
379	143641	54439939	19.4679	7.2368	2.63852	1190.7	112815
380	144400	54872000	19.4936	7.2432	2.63158	1193.8	113411
381	145161	55306341	19.5192	7.2495	2.62467	1196.9	114009
382	145924	55742968	19.5448	7.2558	2.61780	1200.1	114608
383	146689	56181887	19.5704	7.2622	2.61097	1203.2	115209
384	147456	56623104	19.5959	7.2685	2.60417	1206.4	115812
385	148225	57066625	19.6214	7.2748	2.59740	1209.5	116416
386	148996	57512456	19.6469	7.2811	2.59067	1212.7	117021
387	149769	57960603	19.6723	7.2874	2.58398	1215.8	117628
388	150544	58411072	19.6977	7.2936	2.57732	1218.9	118237
389	151321	58863869	19.7231	7.2999	2.57069	1222.1	118847
390	152100	59319000	19.7484	7.3061	2.56410	1225.2	119459
391	152881	59776471	19.7737	7.3124	2.55755	1228.4	120072
392	153664	60236288	19.7990	7.3186	2.55102	1231.5	120687
393	154449	60698457	19.8242	7.3248	2.54453	1234.6	121304
394	155236	61162984	19.8494	7.3310	2.53807	1237.8	121922
395	156025	61629875	19.8746	7.3372	2.53165	1240.9	122542
396	156816	62099136	19.8997	7.3434	2.52525	1244.1	123163
397	157609	62570773	19.9249	7.3496	2.51889	1247.2	123786
398	158404	63044792	19.9499	7.3558	2.51256	1250.4	124410
399	159201	63521199	19.9750	7.3619	2.50627	1253.5	125036

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
400	160000	64000000	20.0000	7.3681	2.50000	1256.6	125664
401	160801	64481201	20.0250	7.3742	2.49377	1259.8	126223
402	161604	64964808	20.0499	7.3803	2.48756	1262.9	126923
403	162409	65450827	20.0749	7.3864	2.48139	1266.1	127556
404	163216	65939264	20.0998	7.3925	2.47525	1269.2	128190
405	164025	66430125	20.1246	7.3986	2.46914	1272.3	128825
406	164836	66923416	20.1494	7.4047	2.46305	1275.5	129462
407	165649	67419143	20.1742	7.4108	2.45700	1278.6	130100
408	166464	67917312	20.1990	7.4169	2.45098	1281.8	130741
409	167281	68417929	20.2237	7.4229	2.44499	1284.9	131382
410	168100	68921000	20.2485	7.4290	2.43902	1288.1	132025
411	168921	69426531	20.2731	7.4350	2.43309	1291.2	132670
412	169744	69934528	20.2978	7.4410	2.42718	1294.3	133317
413	170569	70444997	20.3224	7.4470	2.42131	1297.5	133965
414	171396	70957944	20.3470	7.4530	2.41546	1300.6	134614
415	172225	71473375	20.3715	7.4590	2.40964	1303.8	135265
416	173056	71991296	20.3961	7.4650	2.40385	1306.9	135918
417	173889	72511713	20.4206	7.4710	2.39808	1310.0	136572
418	174724	73034632	20.4450	7.4770	2.39234	1313.2	137228
419	175561	73560059	20.4695	7.4829	2.38664	1316.3	137885
420	176400	74088000	20.4939	7.4889	2.38095	1319.5	138544
421	177241	74618461	20.5183	7.4948	2.37530	1322.6	139205
422	178084	75151448	20.5426	7.5007	2.36967	1325.8	139867
423	178929	75686967	20.5670	7.5067	2.36407	1328.9	140531
424	179776	76225024	20.5913	7.5126	2.35849	1332.0	141196
425	180625	76765625	20.6155	7.5185	2.35294	1335.2	141863
426	181476	77308776	20.6398	7.5244	2.34742	1338.3	142531
427	182329	77854483	20.6640	7.5302	2.34192	1341.5	143201
428	183184	78402752	20.6882	7.5361	2.33645	1344.6	143872
429	184041	78953589	20.7123	7.5420	2.33100	1347.7	144545
430	184900	79507000	20.7364	7.5478	2.32558	1350.9	145220
431	185761	80062991	20.7605	7.5537	2.32019	1354.0	145896
432	186624	80621568	20.7846	7.5595	2.31482	1357.2	146574
433	187489	81182737	20.8087	7.5654	2.30947	1360.3	147254
434	188356	81746504	20.8327	7.5712	2.30415	1363.5	147934
435	189225	82312875	20.8567	7.5770	2.29885	1366.6	148617
436	190096	82881856	20.8806	7.5828	2.29358	1369.7	149301
437	190969	83453453	20.9045	7.5886	2.28833	1372.9	149987
438	191844	84027672	20.9284	7.5944	2.28311	1376.0	150674
439	192721	84604519	20.9523	7.6001	2.27790	1379.2	151363
440	193600	85184000	20.9762	7.6059	2.27273	1382.3	152053
441	194481	85766121	21.0000	7.6117	2.26757	1385.4	152745
442	195364	86350888	21.0238	7.6174	2.26244	1388.6	153439
443	196249	86938307	21.0476	7.6232	2.25734	1391.7	154134
444	197136	87528384	21.0713	7.6289	2.25225	1394.9	154830
445	198025	88121125	21.0950	7.6346	2.24719	1398.0	155528
446	198916	88716536	21.1187	7.6403	2.24215	1401.2	156228
447	199809	89314623	21.1424	7.6460	2.23714	1404.3	156930
448	200704	89915392	21.1660	7.6517	2.23214	1407.4	157633
449	201601	90518849	21.1896	7.6574	2.22717	1410.6	158337

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
450	202500	91125000	21.2132	7.6631	2.22222	1413.7	159043
451	203401	91733851	21.2368	7.6688	2.21730	1416.9	159751
452	204304	92345408	21.2603	7.6744	2.21239	1420.0	160460
453	205209	92959677	21.2838	7.6801	2.20751	1423.1	161171
454	206116	93576664	21.3073	7.6857	2.20264	1426.3	161883
455	207025	94196375	21.3307	7.6914	2.19780	1429.4	162597
456	207936	94818816	21.3542	7.6970	2.19298	1432.6	163313
457	208849	95443993	21.3776	7.7026	2.18818	1435.7	164030
458	209764	96071912	21.4009	7.7082	2.18341	1438.9	164748
459	210681	96702579	21.4243	7.7138	2.17865	1442.0	165468
460	211600	97336000	21.4476	7.7194	2.17391	1445.1	166190
461	212521	97972181	21.4709	7.7250	2.16920	1448.3	166914
462	213444	98611128	21.4942	7.7306	2.16450	1451.4	167639
463	214369	99252847	21.5174	7.7362	2.15983	1454.6	168365
464	215296	99897344	21.5407	7.7418	2.15517	1457.7	169093
465	216225	100544625	21.5639	7.7473	2.15054	1460.8	169823
466	217156	101194696	21.5870	7.7529	2.14592	1464.0	170554
467	218089	101847563	21.6102	7.7584	2.14133	1467.1	171287
468	219024	102503232	21.6333	7.7639	2.13675	1470.3	172021
469	219961	103161709	21.6564	7.7695	2.13220	1473.4	172757
470	220900	103823000	21.6795	7.7750	2.12766	1476.5	173494
471	221841	104487111	21.7025	7.7805	2.12314	1479.7	174234
472	222784	105154048	21.7256	7.7860	2.11864	1482.8	174974
473	223729	105823817	21.7486	7.7915	2.11417	1486.0	175716
474	224676	106496424	21.7715	7.7970	2.10971	1489.1	176460
475	225625	107171875	21.7945	7.8025	2.10526	1492.3	177205
476	226576	107850176	21.8174	7.8079	2.10084	1495.4	177952
477	227529	108531333	21.8403	7.8134	2.09644	1498.5	178701
478	228484	109215352	21.8632	7.8188	2.09205	1501.7	179451
479	229441	109902239	21.8861	7.8243	2.08768	1504.8	180203
480	230400	110592000	21.9089	7.8297	2.08333	1508.0	180956
481	231361	111284641	21.9317	7.8352	2.07900	1511.1	181711
482	232324	111980168	21.9545	7.8406	2.07469	1514.3	182467
483	233289	112678587	21.9773	7.8460	2.07039	1517.4	183225
484	234256	113379904	22.0000	7.8514	2.06612	1520.5	183984
485	235225	114084125	22.0227	7.8568	2.06186	1523.7	184745
486	236196	114791256	22.0454	7.8622	2.05761	1526.8	185508
487	237169	115501303	22.0681	7.8676	2.05339	1530.0	186272
488	238144	116214272	22.0907	7.8730	2.04918	1533.1	187038
489	239121	116930169	22.1133	7.8784	2.04499	1536.2	187805
490	240100	117649000	22.1359	7.8837	2.04082	1539.4	188574
491	241081	118370771	22.1585	7.8891	2.03666	1542.5	189345
492	242064	119095488	22.1811	7.8944	2.03252	1545.7	190117
493	243049	119823157	22.2036	7.8998	2.02840	1548.8	190890
494	244036	120553784	22.2261	7.9051	2.02429	1551.9	191665
495	245025	121287375	22.2486	7.9105	2.02020	1555.1	192442
496	246016	122023936	22.2711	7.9158	2.01613	1558.2	193221
497	247009	122763473	22.2935	7.9211	2.01207	1561.4	194000
498	248004	123505992	22.3159	7.9264	2.00803	1564.5	194782
499	249001	124251499	22.3383	7.9317	2.00401	1567.7	195565



PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
500	250000	125000000	22.3607	7.9370	2.00000	1570.8	196350
501	251001	125751501	22.3880	7.9423	1.99601	1573.9	197136
502	252004	126506008	22.4054	7.9476	1.99203	1577.1	197923
503	253009	127263527	22.4277	7.9528	1.98807	1580.2	198713
504	254016	128024064	22.4499	7.9581	1.98413	1583.4	199504
505	255025	128787625	22.4722	7.9634	1.98020	1586.5	200296
506	256036	129554216	22.4944	7.9686	1.97629	1589.7	201090
507	257049	130323849	22.5167	7.9739	1.97239	1592.8	201886
508	258064	131096512	22.5389	7.9791	1.96850	1595.9	202683
509	259081	131872229	22.5610	7.9843	1.96464	1599.1	203482
510	260100	132651000	22.5832	7.9896	1.96078	1602.2	204282
511	261121	133432831	22.6053	7.9948	1.95695	1605.4	205084
512	262144	134217728	22.6274	8.0000	1.95312	1608.5	205887
513	263169	135005697	22.6495	8.0052	1.94932	1611.6	206692
514	264196	135796744	22.6716	8.0104	1.94553	1614.8	207499
515	265225	136590875	22.6936	8.0156	1.94175	1617.9	208307
516	266256	137388096	22.7156	8.0208	1.93798	1621.1	209117
517	267289	138188413	22.7376	8.0260	1.93424	1624.2	209928
518	268324	138991832	22.7596	8.0311	1.93050	1627.3	210741
519	269361	139798359	22.7816	8.0363	1.92678	1630.5	211556
520	270400	140608000	22.8035	8.0415	1.92308	1633.6	212372
521	271441	141420761	22.8254	8.0466	1.91939	1636.8	213189
522	272484	142236648	22.8473	8.0517	1.91571	1639.9	214008
523	273529	143055667	22.8692	8.0569	1.91205	1643.1	214829
524	274576	143877824	22.8910	8.0620	1.90840	1646.2	215651
525	275625	144703125	22.9129	8.0671	1.90476	1649.3	216475
526	276676	145531576	22.9347	8.0723	1.90114	1652.5	217301
527	277729	146363183	22.9565	8.0774	1.89753	1655.6	218128
528	278784	147197952	22.9783	8.0825	1.89394	1658.8	218956
529	279841	148035889	23.0000	8.0876	1.89036	1661.9	219787
530	280900	148877000	23.0217	8.0927	1.88679	1665.0	220618
531	281961	149721291	23.0434	8.0978	1.88324	1668.2	221452
532	283024	150568768	23.0651	8.1028	1.87970	1671.3	222287
533	284089	151419437	23.0868	8.1079	1.87617	1674.5	223123
534	285156	152273304	23.1084	8.1130	1.87266	1677.6	223961
535	286225	153130375	23.1301	8.1180	1.86916	1680.8	224801
536	287296	153990656	23.1517	8.1231	1.86567	1683.9	225642
537	288369	154854153	23.1733	8.1281	1.86220	1687.0	226484
538	289444	155720872	23.1948	8.1332	1.85874	1690.2	227329
539	290521	156590819	23.2164	8.1382	1.85529	1693.3	228175
540	291600	157464000	23.2379	8.1433	1.85185	1696.5	229022
541	292681	158340421	23.2594	8.1483	1.84843	1699.6	229871
542	293764	159220088	23.2809	8.1533	1.84502	1702.7	230722
543	294849	160103007	23.3024	8.1583	1.84162	1705.9	231574
544	295936	160989184	23.3238	8.1633	1.83824	1709.0	232428
545	297025	161878625	23.3452	8.1683	1.83486	1712.2	233283
546	298116	162771336	23.3666	8.1733	1.83150	1715.3	234140
547	299209	163667323	23.3880	8.1783	1.82815	1718.5	234998
548	300304	164566592	23.4094	8.1833	1.82482	1721.6	235858
549	301401	165469149	23.4307	8.1882	1.82149	1724.7	236720

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
550	302500	166375000	23.4521	8.1982	1.81818	1727.9	237583
551	303601	167284151	23.4734	8.1982	1.81488	1731.0	238448
552	304704	168196608	23.4947	8.2081	1.81159	1734.2	239314
553	305809	169112377	23.5160	8.2081	1.80832	1737.3	240182
554	306916	170031464	23.5372	8.2180	1.80505	1740.4	241051
555	308025	170953875	23.5584	4.2180	1.80180	1743.6	241922
556	309136	171879616	23.5797	8.2229	1.79856	1746.7	242795
557	310249	172808693	23.6008	8.2278	1.79533	1749.9	243669
558	311364	173741112	23.6220	8.2327	1.79211	1753.0	244545
559	312481	174676879	23.6432	8.2377	1.78891	1756.2	245422
560	313600	175616000	23.6643	8.2426	1.78571	1759.3	246301
561	314721	176558481	23.6854	8.2475	1.78253	1762.4	247181
562	315844	177504328	23.7065	8.2524	1.77936	1765.6	248063
563	316969	178453547	23.7276	8.2573	1.77620	1768.7	248947
564	318096	179406144	23.7487	8.2621	1.77305	1771.9	249832
565	319225	180362125	23.7697	8.2670	1.76991	1775.0	250719
566	320356	181321496	23.7908	8.2719	1.76678	1778.1	251607
567	321489	182284263	23.8118	8.2768	1.76367	1781.3	252497
568	322624	183250432	23.8328	8.2816	1.76056	1784.4	253388
569	323761	184220009	23.8537	8.2865	1.75747	1787.6	254281
570	324900	185193000	23.8747	8.2913	1.75439	1790.7	255176
571	326041	186169411	23.8956	8.2962	1.75131	1793.9	256072
572	327184	187149248	23.9165	8.3010	1.74825	1797.0	256970
573	328329	188132517	23.9374	8.3059	1.74520	1800.1	257869
574	329476	189119224	23.9583	8.3107	1.74216	1803.3	258770
575	330625	190109875	23.9792	8.3155	1.73913	1806.4	259672
576	331776	191102976	24.0000	8.3203	1.73611	1809.6	260576
577	332929	192100093	24.0208	8.3251	1.73310	1812.7	261482
578	334084	193100552	24.0416	8.3300	1.73010	1815.8	262389
579	335241	194104589	24.0624	8.3348	1.72712	1819.0	263298
580	336400	195112000	24.0832	8.3396	1.72414	1822.1	264208
581	337561	196122941	24.1039	8.3443	1.72117	1825.3	265120
582	338724	197137368	24.1247	8.3491	1.71821	1828.4	266033
583	339889	198155287	24.1454	8.3539	1.71527	1831.6	266948
584	341056	199176704	24.1661	8.3587	1.71233	1834.7	267865
585	342225	200201625	24.1868	8.3634	1.70940	1837.8	268783
586	343396	201230056	24.2074	8.3682	1.70649	1841.0	269701
587	344569	202262003	24.2281	8.3730	1.70358	1844.1	270624
588	345744	203297472	24.2487	8.3777	1.70068	1847.3	271547
589	346921	204336469	24.2693	8.3825	1.69779	1850.4	272471
590	348100	205379000	24.2899	8.3872	1.69492	1853.5	273397
591	349281	206425071	24.3105	8.3919	1.69205	1856.7	274325
592	350464	207474688	24.3311	8.3967	1.68919	1859.8	275254
593	351649	208527857	24.3516	8.4014	1.68634	1863.0	276184
594	352836	209584584	24.3721	8.4061	1.68350	1866.1	277117
595	354025	210644875	24.3926	8.4108	1.68067	1869.3	278051
596	355216	211708736	24.4131	8.4155	1.67785	1872.4	278986
597	356409	212776173	24.4336	8.4202	1.67504	1875.5	279923
598	357604	213847192	24.4540	8.4249	1.67224	1878.7	280862
599	358801	214921799	24.4745	8.4296	1.66945	1881.8	281802

**PITTSBURGH STEEL PRODUCTS COMPANY**

**Squares, Cubes, Square Roots, Cube Roots, Reciprocals,  
Circumferences and Circular Areas of Nos. from 1 to 1000**

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
600	360000	216000000	24.4949	8.4343	1.66667	1885.0	282743
601	361201	217081801	24.5153	8.4390	1.66389	1888.1	283687
602	362404	218167208	24.5357	8.4437	1.66113	1891.2	284631
603	363609	219256227	24.5561	8.4484	1.65837	1894.4	285578
604	364816	220348864	24.5764	8.4530	1.65563	1897.5	286526
605	366025	221445125	24.5967	8.4577	1.65289	1900.7	287475
606	367236	222545016	24.6171	8.4623	1.65017	1903.8	288426
607	368449	223648543	24.6374	8.4670	1.64745	1907.0	289379
608	369664	224755712	24.6577	8.4716	1.64474	1910.1	290333
609	370881	225866529	24.6779	8.4763	1.64204	1913.2	291289
610	372100	226981000	24.6982	8.4809	1.63934	1916.4	292247
611	373321	228099131	24.7184	8.4856	1.63666	1919.5	293206
612	374544	229220928	24.7386	8.4902	1.63399	1922.7	294166
613	375769	230346397	24.7588	8.4948	1.63132	1925.8	295128
614	376996	231475544	24.7790	8.4994	1.62866	1928.9	296092
615	378225	232608375	24.7992	8.5040	1.62602	1932.1	297057
616	379456	233744896	24.8193	8.5086	1.62338	1935.2	298024
617	380689	234885113	24.8395	8.5132	1.62075	1938.4	298992
618	381924	236029032	24.8596	8.5178	1.61812	1941.5	299962
619	383161	237176659	24.8797	8.5224	1.61551	1944.7	300934
620	384400	238328000	24.8998	8.5270	1.61290	1947.8	301907
621	385641	239483061	24.9199	8.5316	1.61031	1950.9	302882
622	386884	240641848	24.9399	8.5362	1.60772	1954.1	303858
623	388129	241804367	24.9600	8.5408	1.60514	1957.2	304836
624	389376	242970624	24.9800	8.5453	1.60256	1960.4	305815
625	390625	244140625	25.0000	8.5499	1.60000	1963.5	306796
626	391876	245314376	25.0200	8.5544	1.59744	1966.6	307779
627	393129	246491883	25.0400	8.5589	1.59490	1969.8	308763
628	394384	247673152	25.0599	8.5635	1.59236	1972.9	309748
629	395641	248858189	25.0799	8.5681	1.58983	1976.1	310736
630	396900	250047000	25.0998	8.5726	1.58730	1979.2	311725
631	398161	251239591	25.1197	8.5772	1.58479	1982.4	312715
632	399424	252435968	25.1396	8.5817	1.58228	1985.5	313707
633	400689	253636137	25.1595	8.5862	1.57978	1988.6	314700
634	401956	254840104	25.1794	8.5907	1.57729	1991.8	315696
635	403225	256047875	25.1992	8.5952	1.57480	1994.9	316692
636	404496	257259456	25.2190	8.5997	1.57233	1998.1	317690
637	405769	258474853	25.2389	8.6043	1.56986	2001.2	318690
638	407044	259694072	25.2587	8.6088	1.56740	2004.3	319692
639	408321	260917119	25.2784	8.6132	1.56495	2007.5	320695
640	409600	262144000	25.2982	8.6177	1.56250	2010.6	321699
641	410881	263374721	25.3180	8.6222	1.56006	2013.8	322705
642	412164	264609288	25.3377	8.6267	1.55763	2016.9	323713
643	413449	265847707	25.3574	8.6312	1.55521	2020.0	324722
644	414736	267089984	25.3772	8.6357	1.55280	2023.2	325733
645	416025	268336125	25.3969	8.6401	1.55039	2026.3	326745
646	417316	269586136	25.4165	8.6446	1.54799	2029.5	327759
647	418609	270840023	25.4362	8.6490	1.54560	2032.6	328775
648	419904	272097792	25.4558	8.6535	1.54321	2035.8	329792
649	421201	273359449	25.4755	8.6579	1.54083	2038.9	330810

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
650	422500	274625000	25.4951	8.6624	1.58846	2042.0	331881
651	423801	275894451	25.5147	8.6668	1.58610	2045.2	332853
652	425104	277167808	25.5343	8.6713	1.58374	2048.3	333876
653	426409	278445077	25.5539	8.6757	1.58139	2051.5	334901
654	427716	279726264	25.5734	8.6801	1.52905	2054.6	335927
655	429025	281011375	25.5930	8.6845	1.52672	2057.7	336955
656	430336	282300416	25.6125	8.6890	1.52439	2060.9	337985
657	431649	283593393	25.6320	8.6934	1.52207	2064.0	339016
658	432964	284890312	25.6515	8.6978	1.51976	2067.2	340049
659	434281	286191179	25.6710	8.7022	1.51745	2070.3	341084
660	435600	287496000	25.6905	8.7066	1.51515	2073.5	342119
661	436921	288804781	25.7099	8.7110	1.51286	2076.6	343157
662	438244	290117528	25.7294	8.7154	1.51057	2079.7	344196
663	439569	291434247	25.7488	8.7198	1.50830	2082.9	345237
664	440896	292754944	25.7682	8.7241	1.50602	2086.0	346279
665	442225	294079625	25.7876	8.7285	1.50376	2089.2	347323
666	443556	295408296	25.8070	8.7329	1.50150	2092.3	348368
667	444889	296740963	25.8263	8.7373	1.49925	2095.4	349415
668	446224	298077632	25.8457	8.7416	1.49701	2098.6	350464
669	447561	299418309	25.8650	8.7460	1.49477	2101.7	351514
670	448900	300763000	25.8844	8.7503	1.49254	2104.9	352565
671	450241	302111711	25.9037	8.7547	1.49031	2108.0	353618
672	451584	303464448	25.9230	8.7590	1.48810	2111.2	354673
673	452929	304821217	25.9422	8.7634	1.48588	2114.3	355730
674	454276	306182024	25.9615	8.7677	1.48368	2117.4	356788
675	455625	307546875	25.9808	8.7721	1.48148	2120.6	357847
676	456976	308915776	26.0000	8.7764	1.47929	2123.7	358908
677	458329	310288733	26.0192	8.7807	1.47711	2126.9	359971
678	459684	311665752	26.0384	8.7850	1.47493	2130.0	361035
679	461041	313046839	26.0576	8.7893	1.47275	2133.1	362101
680	462400	314432000	26.0768	8.7937	1.47059	2136.3	363168
681	463761	315821241	26.0960	8.7980	1.46843	2139.4	364237
682	465124	317214568	26.1151	8.8023	1.46628	2142.6	365308
683	466489	318611987	26.1343	8.8066	1.46413	2145.7	366380
684	467856	320013504	26.1534	8.8109	1.46199	2148.9	367453
685	469225	321419125	26.1725	8.8152	1.45985	2152.0	368528
686	470596	322828856	26.1916	8.8194	1.45773	2155.1	369605
687	471969	324242703	26.2107	8.8237	1.45560	2158.3	370684
688	473344	325660672	26.2298	8.8280	1.45349	2161.4	371764
689	474721	327082769	26.2488	8.8323	1.45138	2164.6	372845
690	476100	328509000	26.2679	8.8366	1.44928	2167.7	373928
691	477481	3299393871	26.2869	8.8408	1.44718	2170.8	375013
692	478864	331373888	26.3059	8.8451	1.44509	2174.0	376099
693	480249	332812557	26.3249	8.8493	1.44300	2177.1	377187
694	481636	334255384	26.3439	8.8536	1.44092	2180.3	378276
695	483025	335702375	26.3629	8.8578	1.43885	2183.4	379367
696	484416	337153536	26.3818	8.8621	1.43678	2186.6	380459
697	485809	338608873	26.4008	8.8663	1.43472	2189.7	381554
698	487204	340068392	26.4197	8.8706	1.43267	2192.8	382649
699	488601	341532099	26.4386	8.8748	1.43062	2196.0	383746

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
700	490000	343000000	26.4575	8.8790	1.42857	2199.1	384845
701	491401	344472101	26.4764	8.8833	1.42653	2202.3	385945
702	492804	345948408	26.4953	8.8875	1.42450	2205.4	387047
703	494209	347428927	26.5141	8.8917	1.42248	2208.5	388151
704	495616	348913664	26.5330	8.8959	1.42046	2211.7	389256
705	497025	350402625	26.5518	8.9001	1.41844	2214.8	390363
706	498436	351895816	26.5707	8.9043	1.41643	2218.0	391471
707	499849	353393243	26.5895	8.9085	1.41443	2221.1	392580
708	501264	354894912	26.6083	8.9127	1.41243	2224.3	393692
709	502681	356400829	26.6271	8.9169	1.41044	2227.4	394805
710	504100	357911000	26.6458	8.9211	1.40845	2230.5	395919
711	505521	359425431	26.6646	8.9253	1.40647	2233.7	397035
712	506944	360944128	26.6833	8.9295	1.40449	2236.8	398153
713	508369	362467097	26.7021	8.9337	1.40253	2240.0	399272
714	509796	363994344	26.7208	8.9378	1.40056	2243.1	400393
715	511225	365525875	26.7395	8.9420	1.39860	2246.2	401515
716	512656	367061696	26.7582	8.9462	1.39665	2249.4	402639
717	514089	368601813	26.7769	8.9503	1.39470	2252.5	403765
718	515524	370146232	26.7955	8.9545	1.39276	2255.7	404892
719	516961	371694959	26.8142	8.9587	1.39082	2258.8	406020
720	518400	373248000	26.8328	8.9628	1.38889	2261.9	407150
721	519841	374805361	26.8514	8.9670	1.38696	2265.1	408282
722	521284	376367048	26.8701	8.9711	1.38504	2268.2	409416
723	522729	377933067	26.8887	8.9752	1.38313	2271.4	410550
724	524176	379503424	26.9072	8.9794	1.38122	2274.5	411687
725	525625	381078125	26.9258	8.9835	1.37931	2277.7	412825
726	527076	382657176	26.9444	8.9876	1.37741	2280.8	413965
727	528529	384240583	26.9629	8.9918	1.37552	2283.9	415106
728	529984	385828352	26.9815	8.9959	1.37363	2287.1	416248
729	531441	387420489	27.0000	9.0000	1.37174	2290.2	417393
730	532900	389017000	27.0185	9.0041	1.36986	2293.4	418539
731	534361	390617891	27.0370	9.0082	1.36799	2296.5	419686
732	535824	392223168	27.0555	9.0123	1.36612	2299.7	420835
733	537289	393833837	27.0740	9.0164	1.36426	2302.8	421986
734	538756	395449904	27.0924	9.0205	1.36240	2305.9	423138
735	540225	397071475	27.1109	9.0246	1.36054	2309.1	424293
736	541696	398698556	27.1293	9.0287	1.35867	2312.2	425448
737	543169	400331153	27.1477	9.0328	1.35685	2315.4	426604
738	544644	401969272	27.1662	9.0369	1.35501	2318.5	427762
739	546121	403612919	27.1846	9.0410	1.35318	2321.6	428922
740	547600	405262000	27.2029	9.0450	1.35135	2324.8	430084
741	549081	406916621	27.2213	9.0491	1.34953	2327.9	431247
742	550564	408576788	27.2397	9.0532	1.34771	2331.1	432412
743	552049	410242507	27.2580	9.0572	1.34590	2334.2	433578
744	553536	411913784	27.2764	9.0613	1.34409	2337.3	434746
745	555025	413590625	27.2947	9.0654	1.34228	2340.5	435916
746	556516	415273036	27.3130	9.0694	1.34048	2343.6	437087
747	558009	416961023	27.3313	9.0735	1.33869	2346.8	438259
748	559504	418654592	27.3496	9.0775	1.33690	2349.9	439433
749	561001	420353749	27.3679	9.0816	1.33511	2353.1	440609

**PITTSBURGH STEEL PRODUCTS COMPANY**

**Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000**

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
750	562500	421875000	27.3861	9.0856	1.33333	2356.2	441786
751	564001	423564751	27.4044	9.0896	1.33156	2359.3	442965
752	565504	425259008	27.4226	9.0937	1.32979	2362.5	444146
753	567009	426957777	27.4408	9.0977	1.32802	2365.6	445328
754	568516	428661064	27.4591	9.1017	1.32626	2368.8	446511
755	570025	430368875	27.4773	9.1057	1.32450	2371.9	447697
756	571536	432081216	27.4955	9.1098	1.32275	2375.0	448883
757	573049	433798093	27.5136	9.1138	1.32100	2378.2	450072
758	574564	435519512	27.5318	9.1178	1.31926	2381.3	451262
759	576081	437245479	27.5500	9.1218	1.31752	2384.5	452453
760	577600	438976000	27.5681	9.1258	1.31579	2387.6	453646
761	579121	440711081	27.5862	9.1298	1.31406	2390.8	454841
762	580644	442450728	27.6043	9.1338	1.31234	2393.9	456037
763	582169	444194947	27.6225	9.1378	1.31062	2397.0	457234
764	583696	445943744	27.6405	9.1418	1.30890	2400.2	458434
765	585225	447697125	27.6586	9.1458	1.30719	2403.3	459635
766	586756	449455096	27.6767	9.1498	1.30548	2406.5	460837
767	588289	451217663	27.6948	9.1537	1.30378	2409.6	462042
768	589824	452984832	27.7128	9.1577	1.30208	2412.7	463247
769	591361	454757609	27.7308	9.1617	1.30039	2415.9	464454
770	592900	456536000	27.7489	9.1657	1.29870	2419.0	465663
771	594441	458319011	27.7669	9.1696	1.29702	2422.2	466873
772	595984	460099648	27.7849	9.1736	1.29534	2425.3	468085
773	597529	461889917	27.8029	9.1775	1.29366	2428.5	469298
774	599076	463680824	27.8209	9.1815	1.29199	2431.6	470513
775	600625	465482375	27.8388	9.1855	1.29032	2434.7	471730
776	602176	467284576	27.8568	9.1894	1.28866	2437.9	472948
777	603729	469097433	27.8747	9.1933	1.28700	2441.0	474168
778	605284	470910952	27.8927	9.1973	1.28535	2444.2	475389
779	606841	472725139	27.9106	9.2012	1.28370	2447.3	476612
780	608400	474549900	27.9285	9.2052	1.28205	2450.4	477836
781	609961	476375241	27.9464	9.2091	1.28041	2453.6	479062
782	611524	478201168	27.9643	9.2130	1.27877	2456.7	480290
783	613089	480027687	27.9821	9.2170	1.27714	2459.9	481519
784	614656	481854804	28.0000	9.2209	1.27551	2463.0	482750
785	616225	483682525	28.0179	9.2248	1.27389	2466.2	483982
786	617796	485510856	28.0357	9.2287	1.27226	2469.3	485216
787	619369	487339803	28.0535	9.2326	1.27065	2472.4	486451
788	620944	489169372	28.0713	9.2365	1.26904	2475.6	487688
789	622521	491009569	28.0891	9.2404	1.26743	2478.7	488927
790	624100	492850300	28.1069	9.2443	1.26582	2481.9	490167
791	625681	494691561	28.1247	9.2482	1.26422	2485.0	491409
792	627264	496533352	28.1425	9.2521	1.26263	2488.1	492652
793	628849	498375677	28.1603	9.2560	1.26103	2491.3	493897
794	630436	500218534	28.1780	9.2599	1.25945	2494.4	495143
795	632025	502061935	28.1957	9.2638	1.25786	2497.6	496391
796	633616	503905886	28.2135	9.2677	1.25628	2500.7	497641
797	635209	505750393	28.2312	9.2716	1.25471	2503.8	498892
798	636804	507595464	28.2489	9.2754	1.25313	2507.0	500145
799	638401	510823999	28.2666	9.2793	1.25156	2510.1	501399

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
800	640000	512000000	28.2843	9.2832	1.25000	2513.3	502855
801	641601	513922401	28.3019	9.2870	1.24844	2516.4	503912
802	643204	515849608	28.3196	9.2909	1.24688	2519.6	505171
803	644809	517781627	28.3373	9.2948	1.24533	2522.7	506432
804	646416	519718464	28.3549	9.2986	1.24378	2525.8	507694
805	648025	521660125	28.3725	9.3025	1.24224	2529.0	508958
806	649636	523606616	28.3901	9.3063	1.24069	2532.1	510223
807	651249	525557943	28.4077	9.3102	1.23916	2535.3	511490
808	652864	527514112	28.4253	9.3140	1.23762	2538.4	512758
809	654481	529475129	28.4429	9.3179	1.23609	2541.5	514028
810	656100	531441000	28.4605	9.3217	1.23457	2544.7	515300
811	657721	533411731	28.4781	9.3255	1.23305	2547.8	516573
812	659344	535387328	28.4956	9.3294	1.23153	2551.0	517848
813	660969	537367797	28.5132	9.3332	1.23001	2554.1	519124
814	662596	539353144	28.5307	9.3370	1.22850	2557.3	520402
815	664225	541343375	28.5482	9.3408	1.22699	2560.4	521681
816	665856	543338496	28.5657	9.3447	1.22549	2563.5	522962
817	667489	545338513	28.5832	9.3485	1.22399	2566.7	524245
818	669124	547343432	28.6007	9.3523	1.22249	2569.8	525529
819	670761	549353250	28.6182	9.3561	1.22100	2573.0	526814
820	672400	551368000	28.6356	9.3599	1.21951	2576.1	528102
821	674041	553387661	28.6531	9.3637	1.21803	2579.2	529391
822	675684	555412248	28.6705	9.3675	1.21655	2582.4	530681
823	677329	557441767	28.6880	9.3713	1.21507	2585.5	531973
824	678976	559476224	28.7054	9.3751	1.21359	2588.7	533267
825	680625	561515625	28.7228	9.3789	1.21212	2591.8	534562
826	682276	563559976	28.7402	9.3827	1.21065	2595.0	535858
827	683929	565609283	28.7576	9.3865	1.20919	2598.1	537157
828	685584	567663552	28.7750	9.3902	1.20773	2601.2	538456
829	687241	569722789	28.7924	9.3940	1.20627	2604.4	539758
830	688900	571787000	28.8097	9.3978	1.20482	2607.5	541061
831	690561	573856191	28.8271	9.4016	1.20337	2610.7	542365
832	692224	575930368	28.8444	9.4053	1.20192	2613.8	543671
833	693889	578009537	28.8617	9.4091	1.20048	2616.9	544979
834	695556	580093704	28.8791	9.4129	1.19904	2620.1	546288
835	697225	582182875	28.8964	9.4166	1.19760	2623.2	547599
836	698896	584277056	28.9137	9.4204	1.19617	2626.4	548912
837	700569	586376253	28.9310	9.4241	1.19474	2629.5	550226
838	702244	588480472	28.9482	9.4279	1.19332	2632.7	551541
839	703921	590589719	28.9655	9.4316	1.19189	2635.8	552858
840	705600	592704000	28.9828	9.4354	1.19048	2638.9	554177
841	707281	594823321	29.0000	9.4391	1.18906	2642.1	555497
842	708964	596947688	29.0172	9.4429	1.18765	2645.2	556819
843	710649	599077107	29.0345	9.4466	1.18624	2648.4	558142
844	712336	601211584	29.0517	9.4503	1.18483	2651.5	559467
845	714025	603351125	29.0689	9.4541	1.18343	2654.6	560794
846	715716	605495736	29.0861	9.4578	1.18203	2657.8	562122
847	717409	607645423	29.1033	9.4615	1.18064	2660.9	563452
848	719104	609800192	29.1204	9.4652	1.17925	2664.1	564783
849	720801	611960049	29.1376	9.4690	1.17786	2667.2	566116

**PITTSBURGH STEEL PRODUCTS COMPANY**

**Squares, Cubes, Square Roots, Cube Roots, Reciprocals,  
Circumferences and Circular Areas of Nos. from 1 to 1000**

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
850	722500	614125000	29.1548	9.4727	1.17647	2070.4	567450
851	724201	616295051	29.1719	9.4764	1.17509	2073.5	568786
852	725904	618470208	29.1890	9.4801	1.17371	2076.6	570124
853	727609	620650477	29.2062	9.4838	1.17233	2079.8	571463
854	729316	622835864	29.2233	9.4875	1.17096	2082.9	572803
855	731025	625026375	29.2404	9.4912	1.16959	2086.1	574146
856	732736	627222016	29.2575	9.4949	1.16822	2089.2	575490
857	734449	629422793	29.2746	9.4986	1.16686	2092.3	576835
858	736164	631628712	29.2916	9.5023	1.16550	2095.5	578182
859	737881	633839779	29.3087	9.5060	1.16414	2098.6	579530
860	739600	636056000	29.3258	9.5097	1.16279	2701.8	580880
861	741321	638277381	29.3428	9.5134	1.16144	2704.9	582232
862	743044	640503928	29.3598	9.5171	1.16009	2708.1	583585
863	744769	642735647	29.3769	9.5207	1.15875	2711.2	584940
864	746496	644972544	29.3939	9.5244	1.15741	2714.3	586297
865	748225	647214625	29.4109	9.5281	1.15607	2717.5	587655
866	749956	649461896	29.4279	9.5317	1.15473	2720.6	589014
867	751689	651714363	29.4449	9.5354	1.15340	2723.8	590375
868	753424	653972032	29.4618	9.5391	1.15207	2726.9	591738
869	755161	656234909	29.4788	9.5427	1.15075	2730.0	593102
870	756900	658503000	29.4958	9.5464	1.14943	2733.2	594468
871	758641	660776311	29.5127	9.5501	1.14811	2736.3	595835
872	760384	663054848	29.5296	9.5537	1.14679	2739.5	597204
873	762129	665338617	29.5466	9.5574	1.14548	2742.6	598575
874	763876	667627624	29.5635	9.5610	1.14416	2745.8	599947
875	765625	669921875	29.5804	9.5647	1.14286	2748.9	601320
876	767376	672221376	29.5973	9.5683	1.14155	2752.0	602696
877	769129	674526133	29.6142	9.5719	1.14025	2755.2	604073
878	770884	676836152	29.6311	9.5756	1.13895	2758.3	605451
879	772641	679151439	29.6479	9.5792	1.13766	2761.5	606831
880	774400	681472000	29.6648	9.5828	1.13636	2764.6	608212
881	776161	683797841	29.6816	9.5865	1.13507	2767.7	609595
882	777924	686128968	29.6985	9.5901	1.13379	2770.9	610980
883	779689	688465387	29.7153	9.5937	1.13250	2774.0	612366
884	781456	690807104	29.7321	9.5973	1.13122	2777.2	613754
885	783225	693154125	29.7489	9.6010	1.12994	2780.3	615143
886	784996	695506456	29.7658	9.6046	1.12867	2783.5	616534
887	786769	697864103	29.7825	9.6082	1.12740	2786.6	617927
888	788544	700227072	29.7993	9.6118	1.12613	2789.7	619321
889	790321	702595369	29.8161	9.6154	1.12486	2792.9	620717
890	792100	704969000	29.8329	9.6190	1.12360	2796.0	622114
891	793881	707347971	29.8496	9.6226	1.12233	2799.2	623513
892	795664	709732288	29.8664	9.6262	1.12108	2802.3	624913
893	797449	712121957	29.8831	9.6298	1.11982	2805.4	626315
894	799236	714516984	29.8998	9.6334	1.11857	2808.6	627718
895	801025	716917375	29.9166	9.6370	1.11732	2811.7	629124
896	802816	719323136	29.9333	9.6406	1.11607	2814.9	630530
897	804609	721734273	29.9500	9.6442	1.11483	2818.0	631938
898	806404	724150792	29.9666	9.6477	1.11359	2821.2	633348
899	808201	726572699	29.9833	9.6513	1.11235	2824.3	634760



PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
900	810000	729000000	90.0000	9.6549	1.11111	2827.4	636178
901	811801	731432701	90.0167	9.6585	1.10988	2830.6	637587
902	813604	733870808	90.0333	9.6620	1.10865	2833.7	639008
903	815409	736314327	90.0500	9.6656	1.10742	2836.9	640421
904	817216	738763264	90.0666	9.6692	1.10619	2840.0	641840
905	819025	741217625	90.0832	9.6727	1.10497	2843.1	643261
906	820836	743677416	90.0998	9.6763	1.10375	2846.3	644683
907	822649	746142643	90.1164	9.6799	1.10254	2849.4	646107
908	824464	748613312	90.1330	9.6834	1.10132	2852.6	647533
909	826281	751089429	90.1496	9.6870	1.10011	2855.7	648960
910	828100	753571000	90.1662	9.6905	1.09890	2858.8	650388
911	829921	756058031	90.1828	9.6941	1.09769	2862.0	651818
912	831744	758550528	90.1993	9.6976	1.09649	2865.1	653250
913	833569	761048497	90.2159	9.7012	1.09529	2868.3	654684
914	835396	763551944	90.2324	9.7047	1.09409	2871.4	656118
915	837225	766060875	90.2490	9.7082	1.09290	2874.6	657555
916	839056	768575296	90.2655	9.7118	1.09170	2877.7	658993
917	840889	771095213	90.2820	9.7153	1.09051	2880.8	660433
918	842724	773620632	90.2985	9.7188	1.08932	2884.0	661874
919	844561	776151559	90.3150	9.7224	1.08814	2887.1	663317
920	846400	778688000	90.3315	9.7259	1.08696	2890.3	664761
921	848241	781229961	90.3480	9.7294	1.08578	2893.4	666207
922	850084	783777448	90.3645	9.7329	1.08460	2896.5	667654
923	851929	786330467	90.3809	9.7364	1.08342	2899.7	669103
924	853776	788889024	90.3974	9.7400	1.08225	2902.8	670554
925	855625	791453125	90.4138	9.7435	1.08108	2906.0	672006
926	857476	794022776	90.4302	9.7470	1.07991	2909.1	673460
927	859329	796597983	90.4467	9.7505	1.07875	2912.3	674915
928	861184	799178752	90.4631	9.7540	1.07759	2915.4	676372
929	863041	801765089	90.4795	9.7575	1.07643	2918.5	677831
930	864900	804357000	90.4959	9.7610	1.07527	2921.7	679291
931	866761	806954491	90.5123	9.7645	1.07411	2924.8	680752
932	868624	809557568	90.5287	9.7680	1.07296	2928.0	682216
933	870489	812166237	90.5450	9.7715	1.07181	2931.1	683680
934	872356	814780504	90.5614	9.7750	1.07066	2934.2	685147
935	874225	817400375	90.5778	9.7785	1.06952	2937.4	686615
936	876096	820025856	90.5941	9.7819	1.06838	2940.5	688084
937	877969	822656953	90.6105	9.7854	1.06724	2943.7	689555
938	879844	825293672	90.6268	9.7889	1.06610	2946.8	691028
939	881721	827936019	90.6431	9.7924	1.06496	2950.0	692502
940	883600	830584000	90.6594	9.7959	1.06383	2953.1	693978
941	885481	833237621	90.6757	9.7993	1.06270	2956.2	695455
942	887364	835896888	90.6920	9.8028	1.06157	2959.4	696934
943	889249	838561807	90.7083	9.8063	1.06045	2962.5	698415
944	891136	841232384	90.7246	9.8097	1.05932	2965.7	699897
945	893025	843908625	90.7409	9.8132	1.05820	2968.8	701380
946	894916	846590536	90.7571	9.8167	1.05708	2971.9	702865
947	896809	849278123	90.7734	9.8201	1.05597	2975.1	704352
948	898704	851971392	90.7896	9.8236	1.05485	2978.2	705840
949	900601	854670349	90.8058	9.8270	1.05374	2981.4	707330

PITTSBURGH STEEL PRODUCTS COMPANY

Squares, Cubes, Square Roots, Cube Roots, Reciprocals, Circumferences and Circular Areas of Nos. from 1 to 1000

No.	Square	Cube	Square Root	Cube Root	1000 x Recip.	No. = Dia.	
						Circum.	Area
950	902500	857875000	30.8221	9.8805	1.05263	2984.5	708822
951	904401	860085851	30.8383	9.8839	1.05152	2987.7	710315
952	906304	862801408	30.8545	9.8874	1.05042	2990.8	711809
953	908209	865523177	30.8707	9.8408	1.04932	2993.9	713306
954	910116	868250664	30.8869	9.8443	1.04822	2997.1	714803
955	912025	870988875	30.9031	9.8477	1.04712	3000.2	716303
956	913936	873722816	30.9192	9.8511	1.04603	3003.4	717804
957	915849	876467493	30.9354	9.8546	1.04493	3006.5	719306
958	917764	879217912	30.9516	9.8580	1.04384	3009.6	720810
959	919681	881974079	30.9677	9.8614	1.04275	3012.8	722316
960	921600	884736000	30.9839	9.8648	1.04167	3015.9	723823
961	923521	887503681	31.0000	9.8683	1.04058	3019.1	725332
962	925444	890277128	31.0161	9.8717	1.03950	3022.2	726842
963	927369	893056347	31.0322	9.8751	1.03842	3025.4	728354
964	929296	895841344	31.0483	9.8785	1.03734	3028.5	729867
965	931225	898632125	31.0644	9.8819	1.03627	3031.6	731382
966	933156	901428696	31.0805	9.8854	1.03520	3034.8	732899
967	935089	904231063	31.0966	9.8888	1.03413	3037.9	734417
968	937024	907039232	31.1127	9.8922	1.03306	3041.1	735937
969	938961	909853209	31.1288	9.8956	1.03199	3044.2	737458
970	940900	912673000	31.1448	9.8990	1.03093	3047.3	738981
971	942841	915498611	31.1609	9.9024	1.02987	3050.5	740506
972	944784	918330048	31.1769	9.9058	1.02881	3053.6	742032
973	946729	921167317	31.1929	9.9092	1.02775	3056.8	743559
974	948676	924010424	31.2090	9.9126	1.02669	3059.9	745088
975	950625	926859375	31.2250	9.9160	1.02564	3063.1	746619
976	952576	929714176	31.2410	9.9194	1.02459	3066.2	748151
977	954529	932574833	31.2570	9.9227	1.02354	3069.3	749685
978	956484	935441352	31.2730	9.9261	1.02249	3072.5	751221
979	958441	938313739	31.2890	9.9295	1.02145	3075.6	752758
980	960400	941192000	31.3050	9.9329	1.02041	3078.8	754296
981	962361	944076141	31.3209	9.9363	1.01937	3081.9	755837
982	964324	946966168	31.3369	9.9396	1.01833	3085.0	757378
983	966289	949862087	31.3528	9.9430	1.01729	3088.2	758922
984	968256	952763904	31.3688	9.9464	1.01626	3091.3	760468
985	970225	955671625	31.3847	9.9497	1.01523	3094.5	762018
986	972196	958585256	31.4006	9.9531	1.01420	3097.6	763561
987	974169	961504803	31.4166	9.9565	1.01317	3100.8	765111
988	976144	964430272	31.4325	9.9598	1.01215	3103.9	766662
989	978121	967361669	31.4484	9.9632	1.01112	3107.0	768214
990	980100	970299000	31.4643	9.9666	1.01010	3110.2	769769
991	982081	973242271	31.4802	9.9699	1.00908	3113.3	771325
992	984064	976191488	31.4960	9.9733	1.00806	3116.5	772882
993	986049	979146657	31.5119	9.9766	1.00705	3119.6	774441
994	988036	982107784	31.5278	9.9800	1.00604	3122.7	776002
995	990025	985074875	31.5436	9.9833	1.00503	3125.9	777564
996	992016	988047936	31.5595	9.9866	1.00402	3129.0	779128
997	994009	991023973	31.5753	9.9900	1.00301	3132.2	780693
998	996004	994011992	31.5911	9.9933	1.00200	3135.3	782260
999	998001	997002999	31.6070	9.9967	1.00100	3138.5	783828

PITTSBURGH STEEL PRODUCTS COMPANY

Degrees	Tangent							Degrees
	0'	10'	20'	30'	40'	50'	60'	
0	0.00000	0.00291	0.00582	0.00873	0.01164	0.01455	0.01746	89
1	0.01746	0.02096	0.02398	0.02619	0.02910	0.03201	0.03492	88
2	0.03492	0.03878	0.04075	0.04366	0.04658	0.04949	0.05241	87
3	0.05241	0.05583	0.05824	0.06116	0.06408	0.06700	0.06993	86
4	0.06993	0.07285	0.07578	0.07870	0.08163	0.08456	0.08749	85
5	0.08749	0.09042	0.09335	0.09629	0.09923	0.10216	0.10510	84
6	0.10510	0.10805	0.11099	0.11394	0.11688	0.11983	0.12278	83
7	0.12278	0.12574	0.12869	0.13165	0.13461	0.13758	0.14054	82
8	0.14054	0.14351	0.14648	0.14945	0.15243	0.15540	0.15838	81
9	0.15838	0.16137	0.16435	0.16734	0.17033	0.17333	0.17633	80
10	0.17633	0.17933	0.18233	0.18534	0.18835	0.19136	0.19438	79
11	0.19438	0.19740	0.20042	0.20345	0.20648	0.20952	0.21256	78
12	0.21256	0.21560	0.21864	0.22169	0.22475	0.22781	0.23087	77
13	0.23087	0.23393	0.23700	0.24008	0.24316	0.24624	0.24933	76
14	0.24933	0.25242	0.25552	0.25862	0.26172	0.26483	0.26795	75
15	0.26795	0.27107	0.27419	0.27732	0.28046	0.28360	0.28675	74
16	0.28675	0.28990	0.29305	0.29621	0.29938	0.30255	0.30573	73
17	0.30573	0.30891	0.31210	0.31530	0.31850	0.32171	0.32492	72
18	0.32492	0.32814	0.33136	0.33460	0.33783	0.34108	0.34433	71
19	0.34433	0.34758	0.35085	0.35412	0.35740	0.36068	0.36397	70
20	0.36397	0.36727	0.37057	0.37388	0.37720	0.38053	0.38386	69
21	0.38386	0.38721	0.39055	0.39391	0.39727	0.40065	0.40403	68
22	0.40403	0.40741	0.41081	0.41421	0.41763	0.42105	0.42447	67
23	0.42447	0.42791	0.43136	0.43481	0.43828	0.44175	0.44523	66
24	0.44523	0.44872	0.45222	0.45573	0.45924	0.46277	0.46631	65
25	0.46631	0.46985	0.47341	0.47698	0.48055	0.48414	0.48773	64
26	0.48773	0.49134	0.49495	0.49858	0.50222	0.50587	0.50953	63
27	0.50953	0.51320	0.51688	0.52057	0.52427	0.52798	0.53171	62
28	0.53171	0.53545	0.53920	0.54296	0.54673	0.55051	0.55431	61
29	0.55431	0.55812	0.56194	0.56577	0.56962	0.57348	0.57735	60
30	0.57735	0.58124	0.58513	0.58905	0.59297	0.59691	0.60086	59
31	0.60086	0.60483	0.60881	0.61280	0.61681	0.62083	0.62487	58
32	0.62487	0.62892	0.63299	0.63707	0.64117	0.64528	0.64941	57
33	0.64941	0.65355	0.65771	0.66189	0.66608	0.67028	0.67451	56
34	0.67451	0.67875	0.68301	0.68728	0.69157	0.69588	0.70021	55
35	0.70021	0.70455	0.70891	0.71329	0.71769	0.72211	0.72654	54
36	0.72654	0.73100	0.73547	0.73996	0.74447	0.74900	0.75355	53
37	0.75355	0.75812	0.76272	0.76733	0.77196	0.77661	0.78129	52
38	0.78129	0.78598	0.79070	0.79544	0.80020	0.80498	0.80978	51
39	0.80978	0.81461	0.81946	0.82434	0.82923	0.83415	0.83910	50
40	0.83910	0.84407	0.84906	0.85408	0.85912	0.86419	0.86929	49
41	0.86929	0.87441	0.87955	0.88473	0.88992	0.89515	0.90040	48
42	0.90040	0.90569	0.91099	0.91633	0.92170	0.92709	0.93252	47
43	0.93252	0.93797	0.94345	0.94896	0.95451	0.96008	0.96569	46
44	0.96569	0.97133	0.97700	0.98270	0.98843	0.99420	1.00000	45
	60'	50'	40'	30'	20'	10'	0'	
Cotangent								

PITTSBURGH STEEL PRODUCTS COMPANY

Degrees	Cotangent							Degrees
	0'	10'	20'	30'	40'	50'	60'	
0	∞	343.77371	171.88540	114.58865	85.99979	68.75009	57.28996	89
1	57.28996	49.10388	42.96408	38.18846	34.36777	31.24158	28.63625	88
2	28.63625	26.43160	24.54176	22.90877	21.47040	20.20555	19.08114	87
3	19.08114	18.07498	17.16934	16.34986	15.60478	14.92442	14.30067	86
4	14.30067	13.72074	13.19088	12.70621	12.25051	11.82617	11.48005	85
5	11.48005	11.05943	10.71191	10.38540	10.07893	9.78817	9.51436	84
6	9.51436	9.25530	9.00983	8.77689	8.55555	8.34496	8.14435	83
7	8.14435	7.95302	7.77035	7.59575	7.42871	7.26873	7.11537	82
8	7.11537	6.96823	6.82694	6.69116	6.56055	6.43484	6.31975	81
9	6.31975	6.19703	6.08444	5.97576	5.87080	5.76937	5.67128	80
10	5.67128	5.57688	5.48451	5.39552	5.30928	5.22566	5.14455	79
11	5.14455	5.06584	4.98940	4.91516	4.84300	4.77280	4.70463	78
12	4.70463	4.63825	4.57363	4.51071	4.44942	4.38969	4.33148	77
13	4.33148	4.27471	4.21933	4.16530	4.11256	4.06107	4.01078	76
14	4.01078	3.96165	3.91364	3.86671	3.82083	3.77595	3.73205	75
15	3.73205	3.68909	3.64705	3.60588	3.56557	3.52609	3.48741	74
16	3.48741	3.44951	3.41296	3.37594	3.34023	3.30521	3.27085	73
17	3.27085	3.23714	3.20406	3.17159	3.13972	3.10842	3.07768	72
18	3.07768	3.04749	3.01783	2.98869	2.96004	2.93189	2.90421	71
19	2.90421	2.87700	2.85023	2.82391	2.79802	2.77254	2.74748	70
20	2.74748	2.72281	2.69853	2.67462	2.65109	2.62791	2.60509	69
21	2.60509	2.58261	2.56046	2.53865	2.51715	2.49597	2.47509	68
22	2.47509	2.45451	2.43422	2.41421	2.39449	2.37504	2.35585	67
23	2.35585	2.33693	2.31826	2.29984	2.28167	2.26374	2.24604	66
24	2.24604	2.22857	2.21132	2.19430	2.17749	2.16090	2.14451	65
25	2.14451	2.12832	2.11233	2.09654	2.08094	2.06553	2.05030	64
26	2.05030	2.03526	2.02039	2.00569	1.99116	1.97680	1.96261	63
27	1.96261	1.94858	1.93470	1.92098	1.90741	1.89400	1.88073	62
28	1.88073	1.86760	1.85462	1.84177	1.82906	1.81649	1.80405	61
29	1.80405	1.79174	1.77955	1.76749	1.75556	1.74375	1.73205	60
30	1.73205	1.72047	1.70901	1.69766	1.68643	1.67530	1.66428	59
31	1.66428	1.65337	1.64256	1.63185	1.62125	1.61074	1.60033	58
32	1.60033	1.59002	1.57981	1.56969	1.55966	1.54972	1.53987	57
33	1.53987	1.53010	1.52043	1.51084	1.50133	1.49190	1.48256	56
34	1.48256	1.47330	1.46411	1.45501	1.44598	1.43703	1.42815	55
35	1.42815	1.41934	1.41061	1.40195	1.39336	1.38484	1.37638	54
36	1.37638	1.36800	1.35968	1.35142	1.34323	1.33511	1.32704	53
37	1.32704	1.31904	1.31110	1.30323	1.29541	1.28764	1.27994	52
38	1.27994	1.27230	1.26471	1.25717	1.24969	1.24227	1.23490	51
39	1.23490	1.22758	1.22031	1.21310	1.20593	1.19882	1.19175	50
40	1.19175	1.18474	1.17777	1.17085	1.16398	1.15715	1.15037	49
41	1.15037	1.14363	1.13694	1.13029	1.12369	1.11713	1.11061	48
42	1.11061	1.10414	1.09770	1.09131	1.08496	1.07864	1.07237	47
43	1.07237	1.06618	1.05994	1.05378	1.04766	1.04158	1.03553	46
44	1.03553	1.02952	1.02355	1.01761	1.01170	1.00583	1.00000	45
	60'	50'	40'	30'	20'	10'	0'	
Tangent								

**PITTSBURGH STEEL PRODUCTS COMPANY**

Degrees	Sine							
	0'	10'	20'	30'	40'	50'	60'	
0	0.00000	0.00291	0.00582	0.00873	0.01164	0.01454	0.01745	89
1	0.01745	0.02036	0.02327	0.02618	0.02908	0.03199	0.03490	88
2	0.03490	0.03781	0.04071	0.04362	0.04653	0.04943	0.05234	87
3	0.05234	0.05524	0.05814	0.06105	0.06395	0.06685	0.06976	86
4	0.06976	0.07266	0.07556	0.07846	0.08136	0.08426	0.08716	85
5	0.08716	0.09005	0.09295	0.09585	0.09874	0.10164	0.10453	84
6	0.10453	0.10742	0.11031	0.11320	0.11609	0.11898	0.12187	83
7	0.12187	0.12476	0.12764	0.13053	0.13341	0.13629	0.13917	82
8	0.13917	0.14205	0.14493	0.14781	0.15069	0.15356	0.15643	81
9	0.15643	0.15931	0.16218	0.16505	0.16792	0.17078	0.17365	80
10	0.17365	0.17651	0.17937	0.18224	0.18509	0.18795	0.19081	79
11	0.19081	0.19366	0.19652	0.19937	0.20222	0.20507	0.20791	78
12	0.20791	0.21076	0.21360	0.21644	0.21928	0.22212	0.22495	77
13	0.22495	0.22778	0.23062	0.23345	0.23627	0.23910	0.24192	76
14	0.24192	0.24474	0.24756	0.25038	0.25320	0.25601	0.25882	75
15	0.25882	0.26163	0.26443	0.26724	0.27004	0.27284	0.27564	74
16	0.27564	0.27843	0.28123	0.28402	0.28680	0.28959	0.29237	73
17	0.29237	0.29515	0.29793	0.30071	0.30348	0.30625	0.30902	72
18	0.30902	0.31178	0.31454	0.31730	0.32006	0.32282	0.32557	71
19	0.32557	0.32832	0.33106	0.33381	0.33655	0.33929	0.34202	70
20	0.34202	0.34475	0.34748	0.35021	0.35293	0.35565	0.35837	69
21	0.35837	0.36108	0.36379	0.36650	0.36921	0.37191	0.37461	68
22	0.37461	0.37730	0.37999	0.38268	0.38537	0.38805	0.39073	67
23	0.39073	0.39341	0.39608	0.39875	0.40142	0.40408	0.40674	66
24	0.40674	0.40939	0.41204	0.41469	0.41734	0.41998	0.42262	65
25	0.42262	0.42525	0.42788	0.43051	0.43313	0.43575	0.43837	64
26	0.43837	0.44098	0.44359	0.44620	0.44880	0.45140	0.45399	63
27	0.45399	0.45658	0.45917	0.46175	0.46433	0.46690	0.46947	62
28	0.46947	0.47204	0.47460	0.47716	0.47971	0.48226	0.48481	61
29	0.48481	0.48735	0.48989	0.49242	0.49495	0.49748	0.50000	60
30	0.50000	0.50252	0.50503	0.50754	0.51004	0.51254	0.51504	59
31	0.51504	0.51753	0.52002	0.52250	0.52498	0.52745	0.52992	58
32	0.52992	0.53238	0.53484	0.53730	0.53975	0.54220	0.54464	57
33	0.54464	0.54708	0.54951	0.55194	0.55436	0.55678	0.55919	56
34	0.55919	0.56160	0.56401	0.56641	0.56880	0.57119	0.57358	55
35	0.57358	0.57596	0.57833	0.58070	0.58307	0.58543	0.58779	54
36	0.58779	0.59014	0.59248	0.59482	0.59716	0.59949	0.60182	53
37	0.60182	0.60414	0.60645	0.60876	0.61107	0.61337	0.61566	52
38	0.61566	0.61795	0.62024	0.62251	0.62479	0.62706	0.62932	51
39	0.62932	0.63158	0.63383	0.63608	0.63832	0.64056	0.64279	50
40	0.64279	0.64501	0.64723	0.64945	0.65166	0.65386	0.65606	49
41	0.65606	0.65825	0.66044	0.66262	0.66480	0.66697	0.66913	48
42	0.66913	0.67129	0.67344	0.67559	0.67773	0.67987	0.68200	47
43	0.68200	0.68412	0.68624	0.68835	0.69046	0.69256	0.69466	46
44	0.69466	0.69675	0.69883	0.70091	0.70298	0.70505	0.70711	45
	60'	50'	40'	30'	20'	10'	0'	Degrees
Cosine								

PITTSBURGH STEEL PRODUCTS COMPANY

Degrees	Cosine							Degrees
	0'	10'	20'	30'	40'	50'	60'	
0	1.00000	1.00000	0.99998	0.99996	0.99993	0.99989	0.99985	89
1	0.99985	0.99979	0.99973	0.99966	0.99958	0.99949	0.99939	88
2	0.99939	0.99929	0.99917	0.99905	0.99892	0.99878	0.99863	87
3	0.99863	0.99847	0.99831	0.99813	0.99795	0.99776	0.99756	86
4	0.99756	0.99736	0.99714	0.99692	0.99668	0.99644	0.99619	85
5	0.99619	0.99594	0.99567	0.99540	0.99511	0.99482	0.99452	84
6	0.99452	0.99421	0.99390	0.99357	0.99324	0.99290	0.99255	83
7	0.99255	0.99219	0.99182	0.99144	0.99106	0.99067	0.99027	82
8	0.99027	0.98986	0.98944	0.98902	0.98858	0.98814	0.98769	81
9	0.98769	0.98723	0.98676	0.98629	0.98580	0.98531	0.98481	80
10	0.98481	0.98430	0.98378	0.98325	0.98272	0.98218	0.98163	79
11	0.98163	0.98107	0.98050	0.97992	0.97934	0.97875	0.97815	78
12	0.97815	0.97754	0.97692	0.97630	0.97566	0.97502	0.97437	77
13	0.97437	0.97371	0.97304	0.97237	0.97169	0.97100	0.97030	76
14	0.97030	0.96959	0.96887	0.96815	0.96742	0.96667	0.96593	75
15	0.96593	0.96517	0.96440	0.96363	0.96285	0.96206	0.96126	74
16	0.96126	0.96046	0.95964	0.95882	0.95799	0.95715	0.95630	73
17	0.95630	0.95545	0.95459	0.95372	0.95284	0.95195	0.95106	72
18	0.95106	0.95015	0.94924	0.94832	0.94740	0.94646	0.94552	71
19	0.94552	0.94457	0.94361	0.94264	0.94167	0.94068	0.93969	70
20	0.93969	0.93869	0.93769	0.93667	0.93565	0.93462	0.93358	69
21	0.93358	0.93253	0.93148	0.93042	0.92935	0.92827	0.92718	68
22	0.92718	0.92609	0.92499	0.92388	0.92276	0.92164	0.92050	67
23	0.92050	0.91936	0.91822	0.91706	0.91590	0.91472	0.91355	66
24	0.91355	0.91236	0.91116	0.90996	0.90875	0.90753	0.90631	65
25	0.90631	0.90507	0.90383	0.90259	0.90133	0.90007	0.89879	64
26	0.89879	0.89752	0.89623	0.89493	0.89363	0.89232	0.89101	63
27	0.89101	0.88968	0.88835	0.88701	0.88566	0.88431	0.88295	62
28	0.88295	0.88158	0.88020	0.87882	0.87743	0.87603	0.87462	61
29	0.87462	0.87321	0.87178	0.87036	0.86892	0.86748	0.86603	60
30	0.86603	0.86457	0.86310	0.86163	0.86015	0.85866	0.85717	59
31	0.85717	0.85567	0.85416	0.85264	0.85112	0.84959	0.84805	58
32	0.84805	0.84650	0.84495	0.84339	0.84182	0.84025	0.83867	57
33	0.83867	0.83708	0.83549	0.83389	0.83228	0.83066	0.82904	56
34	0.82904	0.82741	0.82577	0.82413	0.82248	0.82082	0.81915	55
35	0.81915	0.81748	0.81580	0.81412	0.81242	0.81072	0.80902	54
36	0.80902	0.80730	0.80558	0.80386	0.80212	0.80038	0.79864	53
37	0.79864	0.79688	0.79512	0.79335	0.79158	0.78980	0.78801	52
38	0.78801	0.78622	0.78442	0.78261	0.78079	0.77897	0.77715	51
39	0.77715	0.77531	0.77347	0.77162	0.76977	0.76791	0.76604	50
40	0.76604	0.76417	0.76229	0.76041	0.75851	0.75661	0.75471	49
41	0.75471	0.75280	0.75088	0.74896	0.74703	0.74509	0.74314	48
42	0.74314	0.74120	0.73924	0.73728	0.73531	0.73333	0.73135	47
43	0.73135	0.72937	0.72737	0.72537	0.72337	0.72136	0.71934	46
44	0.71934	0.71732	0.71529	0.71325	0.71121	0.70916	0.70711	45
	60'	50'	40'	30'	20'	10'	0'	
Sine								

**PITTSBURGH STEEL PRODUCTS COMPANY**

Degrees	Secants							
	0'	10'	20'	30'	40'	50'	60'	
0	1.00000	1.00001	1.00002	1.00004	1.00007	1.00011	1.00015	89
1	1.00015	1.00021	1.00027	1.00034	1.00042	1.00051	1.00061	88
2	1.00061	1.00072	1.00083	1.00095	1.00108	1.00122	1.00137	87
3	1.00137	1.00153	1.00169	1.00187	1.00205	1.00224	1.00244	86
4	1.00244	1.00265	1.00287	1.00309	1.00333	1.00357	1.00382	85
5	1.00382	1.00408	1.00435	1.00463	1.00491	1.00521	1.00551	84
6	1.00551	1.00582	1.00614	1.00647	1.00681	1.00715	1.00751	83
7	1.00751	1.00787	1.00825	1.00863	1.00902	1.00942	1.00983	82
8	1.00983	1.01024	1.01067	1.01111	1.01155	1.01200	1.01247	81
9	1.01247	1.01294	1.01342	1.01391	1.01440	1.01491	1.01543	80
10	1.01543	1.01595	1.01649	1.01703	1.01758	1.01815	1.01872	79
11	1.01872	1.01930	1.01989	1.02049	1.02110	1.02171	1.02234	78
12	1.02234	1.02298	1.02362	1.02428	1.02494	1.02562	1.02630	77
13	1.02630	1.02700	1.02770	1.02842	1.02914	1.02987	1.03061	76
14	1.03061	1.03137	1.03213	1.03290	1.03368	1.03447	1.03528	75
15	1.03528	1.03609	1.03691	1.03774	1.03858	1.03944	1.04030	74
16	1.04030	1.04117	1.04206	1.04295	1.04385	1.04477	1.04569	73
17	1.04569	1.04663	1.04757	1.04853	1.04950	1.05047	1.05146	72
18	1.05146	1.05246	1.05347	1.05449	1.05552	1.05657	1.05762	71
19	1.05762	1.05869	1.05976	1.06085	1.06195	1.06306	1.06418	70
20	1.06418	1.06531	1.06645	1.06761	1.06878	1.06995	1.07115	69
21	1.07115	1.07235	1.07356	1.07479	1.07602	1.07727	1.07853	68
22	1.07853	1.07981	1.08109	1.08239	1.08370	1.08503	1.08636	67
23	1.08636	1.08771	1.08907	1.09044	1.09183	1.09323	1.09464	66
24	1.09464	1.09606	1.09750	1.09895	1.10041	1.10189	1.10338	65
25	1.10338	1.10488	1.10640	1.10793	1.10947	1.11103	1.11260	64
26	1.11260	1.11419	1.11579	1.11740	1.11903	1.12067	1.12233	63
27	1.12233	1.12400	1.12568	1.12738	1.12910	1.13083	1.13257	62
28	1.13257	1.13433	1.13610	1.13789	1.13970	1.14152	1.14335	61
29	1.14335	1.14521	1.14707	1.14896	1.15085	1.15277	1.15470	60
30	1.15470	1.15665	1.15861	1.16059	1.16259	1.16460	1.16663	59
31	1.16663	1.16868	1.17075	1.17283	1.17493	1.17704	1.17918	58
32	1.17918	1.18133	1.18350	1.18569	1.18790	1.19012	1.19236	57
33	1.19236	1.19463	1.19691	1.19920	1.20152	1.20386	1.20622	56
34	1.20622	1.20859	1.21099	1.21341	1.21584	1.21830	1.22077	55
35	1.22077	1.22327	1.22579	1.22833	1.23089	1.23347	1.23607	54
36	1.23607	1.23869	1.24134	1.24400	1.24669	1.24940	1.25214	53
37	1.25214	1.25489	1.25767	1.26047	1.26330	1.26615	1.26902	52
38	1.26902	1.27191	1.27483	1.27778	1.28075	1.28374	1.28676	51
39	1.28676	1.28980	1.29287	1.29597	1.29909	1.30223	1.30541	50
40	1.30541	1.30861	1.31183	1.31509	1.31837	1.32168	1.32501	49
41	1.32501	1.32838	1.33177	1.33519	1.33864	1.34212	1.34563	48
42	1.34563	1.34917	1.35274	1.35634	1.35997	1.36363	1.36733	47
43	1.36733	1.37105	1.37481	1.37860	1.38242	1.38628	1.39016	46
44	1.39016	1.39409	1.39804	1.40203	1.40606	1.41012	1.41421	45
	60'	50'	40'	30'	20'	10'	0'	Degrees
Cosecants								

PITTSBURGH STEEL PRODUCTS COMPANY

Degrees	Cosecants							Degrees
	0'	10'	20'	30'	40'	50'	60'	
0	∞	343.77516	171.88881	114.59801	85.94561	68.75736	57.29869	89
1	57.29869	49.11406	42.97571	38.20155	34.38232	31.25758	28.65371	88
2	28.65371	26.45051	24.56212	22.92559	21.49808	20.29028	19.10732	87
3	19.10732	18.10262	17.19843	16.38041	15.63679	14.95788	14.33559	86
4	14.33559	13.76312	13.23472	12.74550	12.29125	11.80887	11.47371	85
5	11.47371	11.10455	10.75849	10.43343	10.12752	9.83912	9.56677	84
6	9.56677	9.30917	9.06515	8.83367	8.61379	8.40466	8.20551	83
7	8.20551	8.01505	7.83443	7.66130	7.49571	7.33719	7.18530	82
8	7.18530	7.03962	6.89979	6.76547	6.63633	6.51208	6.39245	81
9	6.39245	6.27719	6.16607	6.05886	5.95536	5.85539	5.75877	80
10	5.75877	5.66533	5.57493	5.48740	5.40263	5.32049	5.24084	79
11	5.24084	5.16359	5.08863	5.01585	4.94517	4.87649	4.80973	78
12	4.80973	4.74482	4.68167	4.62023	4.56041	4.50216	4.44541	77
13	4.44541	4.39012	4.33622	4.28396	4.23239	4.18238	4.13357	76
14	4.13357	4.08591	4.03938	3.99393	3.94952	3.90613	3.86370	75
15	3.86370	3.82223	3.78166	3.74198	3.70315	3.66515	3.62796	74
16	3.62796	3.59154	3.55587	3.52094	3.48671	3.45317	3.42030	73
17	3.42030	3.38808	3.35649	3.32551	3.29512	3.26531	3.23607	72
18	3.23607	3.20737	3.17920	3.15155	3.12440	3.09774	3.07155	71
19	3.07155	3.04584	3.02057	2.99574	2.97135	2.94737	2.92380	70
20	2.92380	2.90063	2.87785	2.85545	2.83342	2.81175	2.79043	69
21	2.79043	2.76945	2.74881	2.72850	2.70851	2.68884	2.66947	68
22	2.66947	2.65040	2.63162	2.61313	2.59491	2.57698	2.55930	67
23	2.55930	2.54190	2.52474	2.50784	2.49119	2.47477	2.45859	66
24	2.45859	2.44264	2.42692	2.41142	2.39614	2.38107	2.36620	65
25	2.36620	2.35154	2.33708	2.32282	2.30875	2.29487	2.28117	64
26	2.28117	2.26766	2.25432	2.24116	2.22817	2.21535	2.20269	63
27	2.20269	2.19019	2.17786	2.16568	2.15366	2.14178	2.13005	62
28	2.13005	2.11847	2.10704	2.09574	2.08458	2.07356	2.06267	61
29	2.06267	2.05191	2.04128	2.03077	2.02039	2.01014	2.00000	60
30	2.00000	1.98998	1.98008	1.97029	1.96062	1.95106	1.94160	59
31	1.94160	1.93226	1.92302	1.91388	1.90485	1.89591	1.88708	58
32	1.88708	1.87834	1.86990	1.86116	1.85271	1.84435	1.83608	57
33	1.83608	1.82790	1.81981	1.81180	1.80388	1.79604	1.78829	56
34	1.78829	1.78062	1.77303	1.76552	1.75808	1.75073	1.74345	55
35	1.74345	1.73624	1.72911	1.72205	1.71506	1.70815	1.70130	54
36	1.70130	1.69452	1.68782	1.68117	1.67460	1.66809	1.66164	53
37	1.66164	1.65526	1.64894	1.64268	1.63648	1.63035	1.62427	52
38	1.62427	1.61825	1.61229	1.60639	1.60054	1.59475	1.58902	51
39	1.58902	1.58333	1.57771	1.57213	1.56661	1.56114	1.55572	50
40	1.55572	1.55036	1.54504	1.53977	1.53455	1.52938	1.52425	49
41	1.52425	1.51918	1.51415	1.50916	1.50422	1.49933	1.49448	48
42	1.49448	1.48967	1.48491	1.48019	1.47551	1.47087	1.46628	47
43	1.46628	1.46173	1.45721	1.45274	1.44831	1.44391	1.43956	46
44	1.43956	1.43524	1.43096	1.42672	1.42251	1.41835	1.41421	45
	60'	50'	40'	30'	20'	10'	0'	
Secants								



## Appendix "A"

## Explanation of Table of Transformation Factors for Various Stresses for Rectangular Beams

On pages 272 to 278 the safe total load in pounds per inch wide per foot long of beams are given, based on  $1/10 w l^2$  and the stresses in the steel and concrete not exceeding 650 and 16,000 pounds per square inch respectively.

As many "building regulations" require designers to use different unit stresses than are recommended in the Blue Book, and as especial conditions of design make such changes in the unit stresses occasionally desirable, the following table has been prepared to permit the design of Rectangular Beams with various unit stresses by using the Rectangular Beam Tables, and with only slight additional computations.

The first column of the tables marked  $r$  gives the ratio of unit stress in the steel to that in the concrete. For instance, if the stress in the steel is 16,000 pounds per square inch and that in the concrete is 400 pounds  $r = \frac{16000}{400} = 40$ .

The second column marked  $p$  gives the percentage of steel reinforcement based upon the ratio of unit stresses. If the ratio of the unit stresses is fixed the percentage of steel reinforcement is fixed, see formula for  $p$ , Appendix "B."

The third column marked  $F_L$  gives the factors for loads, and the fourth column marked  $F_S$  gives the factors for steel areas.

Having selected the desired unit stresses in the concrete and steel,  $r$  is known and  $F_L$  and  $F_S$  may be

selected. Then enter the Rectangular Beam Tables with a fictitious load equal to the desired total load per inch wide, per foot long of beam, multiplied by  $F_L$ , divided by the desired unit stress in the concrete and with this "Fictitious Load" select a depth of beam for the given span. To determine the necessary area of steel reinforcement on the basis of the desired unit stresses, multiply the steel area given at the top of the Rectangular Beam Tables for the given span and the selected depth, by  $F_S$  the factor for steel areas.

Example. Design a rectangular beam 12 inches wide to carry a total load of 500 pounds per lineal foot, for a span of 20 feet, the unit stresses in the concrete ( $f_c$ ) and steel ( $f_s$ ) to be 400 and 16,000 pounds per square inch.  $r = 16,000/400 = 40$ . Enter table with  $r = 40$  and it is found that  $F_L = 866$  and  $F_S = 0.443$ . A load 500 pounds per foot wide, per foot long of beam =  $\frac{500}{12} = 41.7$  pounds per inch wide, per foot long.

Now enter the Rectangular Beam Tables, pages 272 to 278, with a "Fictitious" Load =  $41.7 \times \frac{F_L}{f_c} = 41.7 \times \frac{866}{400} = 90.28$  pounds and on page 276 for a span of 20 feet the nearest tabulated safe load is found to be 89.6 pounds. While this load is slightly less than the "Fictitious Load," the difference is so small as to be negligible. The necessary net depth, see "Depth of Beam in Inches," near top of column, is 20 inches for a span of 20 feet and a safe load of 89.6 pounds.

To find the necessary area of steel per inch wide, multiply the area near top of same column by  $F_S$  or  $0.1540 \times 0.443 = 0.0682$  square inches.  $0.0682 \times 12 = 0.82$  square inches is required for a beam 12 inches wide, or see page 21, two No. 4 frames should be used.

These tables of factors can also be applied (although somewhat awkwardly,) to the T-beam tables, since the T-beams of these tables are shallow, the neutral axis lying in or near the flange. They are, therefore, approximately rectangular beams. To find the safe load for any T-beam given in the T-beam tables and for any unit stresses, first find the total load which can be carried by the beam on the basis of unit stresses in the concrete and steel of 650 and 16,000 pounds per square inch. To do this add the dead load per square foot to the safe live load per square foot given at the top of the beam tables and multiply this total load per square foot by the area of floor carried by the beam. This will give the safe total load upon the beam. Then the safe total load and the proper amount of bottom steel reinforcement, for any unit stresses, can be found as in the preceding example, the areas of the bottom reinforcement corresponding to any frames being taken from page 21.

## Transformation Factors for Various Unit Stresses for Rectangular Beams

Ratio of Unit Stresses	Percentage of Steel	Factor for Loads	Factor for Steel Areas	Ratio of Unit Stresses	Percentage of Steel	Factor for Loads	Factor for Steel Areas
r	p	F <sub>L</sub>	F <sub>S</sub>	r	p	F <sub>L</sub>	F <sub>S</sub>
15	1.667	517	2.167	33	0.473	768	0.615
16	1.512	530	1.966	34	0.450	782	0.585
17	1.378	544	1.791	35	0.429	796	0.558
18	1.263	558	1.642	36	0.408	810	0.530
19	1.161	572	1.509	37	0.390	824	0.507
20	1.071	586	1.392	38	0.372	838	0.484
21	0.992	600	1.290	39	0.356	852	0.463
22	0.921	614	1.197	40	0.341	866	0.443
23	0.858	628	1.115	41	0.327	880	0.425
24	0.801	642	1.041	42	0.313	895	0.407
25	0.750	655	0.975	43	0.301	910	0.391
26	0.704	670	0.915	44	0.289	925	0.376
27	0.661	684	0.859	45	0.278	938	0.361
28	0.623	698	0.810	46	0.267	953	0.347
29	0.588	712	0.764	47	0.258	966	0.335
30	0.555	726	0.722	48	0.248	981	0.322
31	0.526	740	0.684	49	0.239	995	0.311
32	0.498	755	0.647	50	0.231	1006	0.300

## Appendix "A"—Continued

Explanation of Table of Transformation  
Factors for Various Unit Stresses  
for T-Beams or T-Girders

These tables cannot be applied to the T-Beam tables but can be applied to the T-Girder and special T-Beam tables.

When applied they give only approximate results, the actual stresses however being generally lower than the tables indicate. For the deeper beams for any given frames the error is negligible, and for the shallowest beams the error is not so great as to result in material loss of economy.

At the top of the tables the ratios of the thickness of the floor slabs ( $t$ ), to the net depth of beams or girders ( $d$ ), are given. In the first column the ratio  $r$  of the unit stress in steel to that in the concrete is given. For instance, if the stress in the steel is 16,000 pounds per square inch and that in the concrete is 400 pounds  $r = \frac{16000}{400} = 40$ .

The second column marked  $F_L$  gives the factors for loads and the third column marked  $F_S$  gives the factors for steel areas.

Having selected unit stresses in the concrete and steel and the thickness of the floor slab, and assuming a net depth of beam or girder,  $r$  and  $\frac{t}{d}$  are known. Then by entering the tables  $F_L$  and  $F_S$  may be selected.

Then enter the T-Girder and special T-Beam tables with a fictitious load equal to the desired total load multiplied by  $16,000 \times F_L \div f_s$  in which  $f_s =$  the desired unit stress in the steel and with this fictitious load, the given span and the chosen depth, select the corresponding frames. To determine the necessary area of steel reinforcement on the basis of the desired unit stresses, multiply the steel area of the bottom reinforcement of the frames called for in the tables by  $F_S$ . This result gives the requisite area of steel and from page 21 the proper frames may be taken.

Example: To design a beam with a span of 20 feet to carry a total load of 40,000 pounds, thickness of slab 4 inches, the unit stresses in the concrete and steel to be 450 and 18,000 pounds per square inch. Select a total depth of 24 inches by noting the depth and corresponding safe loads given in the tables and based on the recommended stresses. (650 and 16,000 pounds per square inch.) For a total depth  $D$  of 24 inches the net depth ( $d$ ) equals (with sufficient accuracy for the purposes of design)  $24 - 3 = 21$  inches. Therefore  $t/d = \frac{4}{21} = 0.19$  and  $r = \frac{18,000 \times 4}{450} = 40$ .

Now enter the tables with  $t/d$  0.19 and  $r=40$  and it is found that  $F_L=1.88$  and  $F_S=0.536$ . The fictitious load therefore equals  $40,000 \times 1.88 \times 16,000 \div 18,000 = 66,840$  pounds.

Now enter the T-Girder and Special T-Beam tables and on page 213 it is seen that for a 20-foot span a depth  $D$  of 24 inches and a load of 66,840 pounds two No. 25 frames are called for.

The area of two No. 25 frames, see page 21, is 5.64 square inches. Now  $5.64 \times F_S = 5.64 \times 0.536 = 3.02$  square inches. Therefore two No. 16 frames will be used. It should be noted that on page 210 for the given span and selected depth and for the stresses upon which the table is based (650 and 16,000 pounds,) two No. 18 frames would be required. Note on page 213 that the 24-inch depth is used up to and including three No. 19 frames and the maximum width of flange 12t is therefore not developed on the basis of 650 and 16,000 pounds except by three No. 19 frames.

The maximum width of flange, 12t, throughout the T-Girder and special T-Beam tables is not developed except by the heaviest reinforcement used for a given depth, which is the reason for the transformation factors giving only approximate results for the shallower beams or girders.

If the designer uses a higher unit stress in the concrete than 650 pounds per square inch and selects beams or girders of maximum depth for given frames, the width of flange will exceed 12t.

PITTSBURGH STEEL PRODUCTS COMPANY

Transformation Factors for Various Unit Stresses for T-Beams and T-Girders

$\frac{t}{d}$	0.125		0.13		0.14	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
15	0.58	1.748	0.57	1.751	0.57	1.759
16	0.62	1.604	0.62	1.607	0.62	1.614
17	0.66	1.517	0.66	1.520	0.66	1.526
18	0.70	1.431	0.70	1.433	0.70	1.438
19	0.75	1.345	0.74	1.346	0.74	1.350
20	0.79	1.259	0.79	1.260	0.79	1.262
21	0.83	1.201	0.83	1.202	0.83	1.203
22	0.88	1.144	0.88	1.144	0.88	1.145
23	0.92	1.087	0.92	1.086	0.92	1.087
24	0.97	1.028	0.97	1.028	0.97	1.029
24.6	1.00	1.000	1.00	1.000	1.00	1.000
25	1.02	0.986	1.02	0.986	1.02	0.987
26	1.06	0.945	1.06	0.944	1.06	0.945
27	1.11	0.904	1.11	0.903	1.11	0.903
28	1.16	0.863	1.16	0.862	1.16	0.861
29	1.20	0.825	1.20	0.824	1.20	0.822
30	1.25	0.809	1.25	0.806	1.25	0.803
31	1.28	0.782	1.29	0.779	1.29	0.774
32	1.32	0.755	1.33	0.752	1.35	0.746
33	1.37	0.728	1.38	0.725	1.39	0.720
34	1.43	0.701	1.43	0.699	1.44	0.695
35	1.48	0.674	1.49	0.672	1.49	0.669
36	1.55	0.647	1.55	0.646	1.55	0.644
37	1.59	0.628	1.59	0.627	1.60	0.624
38	1.64	0.609	1.65	0.607	1.66	0.603
40	1.75	0.571	1.78	0.568	1.78	0.562
42	1.88	0.537	1.88	0.534	1.92	0.529
44	1.98	0.505	2.00	0.502	2.04	0.497
46	2.12	0.479	2.12	0.476	2.12	0.470
48	2.21	0.453	2.22	0.450	2.27	0.444
50	2.32	0.430	2.38	0.427	2.38	0.421

t equals thickness of slab in inches.

d equals net depth of T-beam or T-girder in inches.



PITTSBURGH STEEL PRODUCTS COMPANY

Transformation Factors for Various Unit Stresses for T-Beams and T-Girders—Continued

$\frac{t}{d}$	0.15		0.16		0.17	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
15	0.57	1.768	0.57	1.778	0.56	1.786
16	0.61	1.621	0.61	1.628	0.61	1.634
17	0.65	1.531	0.65	1.537	0.65	1.543
18	0.69	1.442	0.69	1.447	0.69	1.452
19	0.74	1.353	0.73	1.357	0.73	1.361
20	0.79	1.264	0.79	1.267	0.78	1.270
21	0.83	1.205	0.83	1.207	0.82	1.209
22	0.88	1.146	0.88	1.147	0.87	1.149
23	0.92	1.088	0.92	1.088	0.92	1.089
24	0.97	1.029	0.97	1.029	0.97	1.029
24.6	1.00	1.000	1.00	1.000	1.00	1.000
25	1.02	0.986	1.02	0.986	1.02	0.986
26	1.06	0.944	1.06	0.944	1.06	0.943
27	1.11	0.902	1.11	0.902	1.11	0.900
28	1.16	0.860	1.16	0.860	1.17	0.858
29	1.20	0.820	1.21	0.828	1.21	0.826
30	1.25	0.800	1.26	0.796	1.26	0.794
31	1.29	0.770	1.31	0.764	1.31	0.762
32	1.35	0.740	1.36	0.733	1.36	0.730
33	1.40	0.715	1.40	0.709	1.42	0.705
34	1.45	0.690	1.47	0.685	1.47	0.681
35	1.51	0.666	1.53	0.662	1.53	0.657
36	1.56	0.642	1.56	0.639	1.58	0.633
37	1.61	0.621	1.63	0.617	1.63	0.611
38	1.67	0.599	1.69	0.595	1.72	0.589
40	1.81	0.556	1.81	0.551	1.85	0.546
42	1.92	0.524	1.96	0.518	1.96	0.512
44	2.04	0.492	2.06	0.486	2.12	0.479
46	2.17	0.464	2.22	0.458	2.22	0.451
48	2.32	0.438	2.32	0.431	2.38	0.424
50	2.43	0.415	2.50	0.408	2.50	0.401

$t$  equals thickness of slab in inches.

$d$  equals net depth of T-beam or T-girder in inches.

## Transformation Factors for Various Unit Stresses for T-Beams and T-Girders—Continued

Ratio of Unit Stresses $\frac{t}{d}$	0.18		0.19		0.20	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
15	0.56	1.794	0.56	1.802	0.56	1.811
16	0.61	1.640	0.61	1.646	0.61	1.651
17	0.65	1.548	0.65	1.553	0.65	1.558
18	0.69	1.456	0.69	1.461	0.69	1.465
19	0.73	1.365	0.73	1.369	0.73	1.373
20	0.78	1.274	0.78	1.277	0.78	1.281
21	0.82	1.213	0.82	1.215	0.82	1.219
22	0.87	1.152	0.87	1.153	0.87	1.157
23	0.92	1.091	0.92	1.092	0.92	1.095
24	0.97	1.030	0.97	1.031	0.97	1.032
24.6	1.00	1.000	1.00	1.000	1.00	1.000
25	1.02	0.986	1.02	0.986	1.02	0.986
26	1.06	0.942	1.06	0.942	1.06	0.941
27	1.11	0.899	1.12	0.898	1.12	0.896
28	1.17	0.856	1.17	0.854	1.17	0.851
29	1.21	0.823	1.21	0.821	1.23	0.818
30	1.26	0.791	1.28	0.788	1.28	0.785
31	1.31	0.759	1.33	0.755	1.33	0.752
32	1.38	0.727	1.38	0.723	1.39	0.719
33	1.42	0.702	1.42	0.697	1.44	0.692
34	1.49	0.677	1.49	0.671	1.51	0.666
35	1.53	0.652	1.56	0.646	1.56	0.640
36	1.61	0.627	1.61	0.621	1.63	0.614
37	1.66	0.605	1.66	0.599	1.69	0.593
38	1.72	0.583	1.75	0.578	1.75	0.572
40	1.85	0.541	1.88	0.536	1.89	0.530
42	2.00	0.506	2.00	0.500	2.04	0.494
44	2.12	0.472	2.17	0.466	2.17	0.460
46	2.27	0.444	2.32	0.438	2.39	0.431
48	2.43	0.417	2.43	0.410	2.48	0.403
50	2.56	0.394	2.63	0.386	2.70	0.379

$t$  equals thickness of slab in inches.

$d$  equals net depth of T-beam or T-girder in inches.

PITTSBURGH STEEL PRODUCTS COMPANY

Transformation Factors for Various Unit Stresses for T-Beams and T-Girders—Continued

Ratio of Unit Stresses $\frac{t}{d}$ r	0.21		0.22		0.23	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
15	0.55	1.824	0.55	1.835	0.54	1.848
16	0.60	1.662	0.59	1.673	0.59	1.684
17	0.64	1.567	0.63	1.577	0.63	1.586
18	0.68	1.473	0.67	1.481	0.67	1.488
19	0.73	1.379	0.72	1.385	0.72	1.391
20	0.78	1.285	0.77	1.289	0.77	1.293
21	0.82	1.221	0.81	1.224	0.81	1.227
22	0.86	1.158	0.86	1.160	0.86	1.162
23	0.92	1.095	0.91	1.096	0.91	1.097
24	0.96	1.032	0.96	1.032	0.96	1.032
24.6	1.00	1.000	1.00	1.000	1.00	1.000
25	1.02	0.986	1.02	0.985	1.02	0.985
26	1.06	0.940	1.06	0.939	1.07	0.938
27	1.12	0.894	1.12	0.893	1.12	0.891
28	1.17	0.850	1.17	0.850	1.17	0.850
29	1.23	0.815	1.23	0.813	1.23	0.810
30	1.28	0.781	1.28	0.779	1.29	0.775
31	1.35	0.748	1.35	0.745	1.35	0.741
32	1.40	0.715	1.40	0.711	1.42	0.707
33	1.47	0.688	1.47	0.684	1.47	0.680
34	1.51	0.661	1.53	0.657	1.53	0.653
35	1.58	0.635	1.58	0.630	1.61	0.626
36	1.66	0.609	1.66	0.604	1.66	0.600
37	1.72	0.587	1.72	0.582	1.75	0.577
38	1.78	0.566	1.78	0.560	1.81	0.555
40	1.92	0.524	1.96	0.518	1.96	0.512
42	2.08	0.488	2.08	0.482	2.14	0.475
44	2.22	0.453	2.27	0.446	2.32	0.439
46	2.46	0.423	2.53	0.416	2.60	0.409
48	2.56	0.395	2.68	0.399	2.81	0.379
50	2.84	0.371	2.98	0.363	3.14	0.355

t equals thickness of slab in inches.

d equals net depth of T-beam or T-girder in inches.

## Transformation Factors for Various Unit Stresses for T-Beams and T-Girders—Continued

Ratio of Unit Stresses $\frac{t}{d}$	0.24		0.25		0.26	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
15	0.54	1.862	0.54	1.872	0.53	1.882
16	0.59	1.696	0.58	1.704	0.58	1.712
17	0.63	1.596	0.62	1.603	0.62	1.610
18	0.68	1.496	0.67	1.502	0.67	1.508
19	0.72	1.397	0.72	1.401	0.71	1.407
20	0.77	1.297	0.77	1.301	0.76	1.305
21	0.82	1.230	0.81	1.234	0.81	1.237
22	0.87	1.164	0.86	1.167	0.86	1.190
23	0.91	1.098	0.91	1.100	0.91	1.103
24	0.97	1.032	0.96	1.033	0.96	1.035
24.6	1.00	1.000	1.00	1.000	1.00	1.000
25	1.02	0.985	1.02	0.985	1.02	0.986
26	1.07	0.938	1.07	0.937	1.07	0.937
27	1.12	0.891	1.12	0.889	1.13	0.888
28	1.18	0.844	1.19	0.842	1.19	0.840
29	1.23	0.809	1.25	0.806	1.25	0.803
30	1.29	0.774	1.29	0.770	1.31	0.767
31	1.36	0.739	1.36	0.735	1.36	0.731
32	1.42	0.704	1.42	0.700	1.44	0.695
33	1.49	0.670	1.49	0.671	1.51	0.666
34	1.53	0.642	1.56	0.643	1.58	0.637
35	1.61	0.622	1.63	0.615	1.66	0.609
36	1.69	0.593	1.72	0.587	1.74	0.581
37	1.75	0.571	1.78	0.564	1.81	0.558
38	1.81	0.549	1.85	0.542	1.89	0.535
40	1.98	0.505	2.02	0.498	2.01	0.491
42	2.21	0.467	2.28	0.461	2.35	0.451
44	2.32	0.431	2.54	0.425	. .	. . .
46	2.67	0.401	2.74	0.393	. .	. . .
48	2.94	0.371	. .	. . .	. .	. . .

$t$  equals thickness of slab in inches.

$d$  equals net depth of T-beam or T-girder in inches.

## Transformation Factors for Various Unit Stresses for T-Beams and T-Girders—Continued

Ratio of Unit Stresses $\frac{t}{d}$	0.27		0.28		0.29	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
15	0.53	1.893	0.53	1.904	0.52	1.921
16	0.58	1.721	0.58	1.730	0.57	1.744
17	0.62	1.618	0.62	1.626	0.61	1.637
18	0.67	1.515	0.67	1.522	0.66	1.530
19	0.71	1.412	0.71	1.418	0.71	1.424
20	0.76	1.309	0.76	1.314	0.76	1.318
21	0.81	1.241	0.81	1.245	0.81	1.247
22	0.86	1.173	0.86	1.176	0.86	1.176
23	0.91	1.105	0.91	1.107	0.91	1.106
24	0.96	1.036	0.96	1.038	0.96	1.036
24.6	1.00	1.000	1.00	1.000	1.00	1.000
25	1.02	0.986	1.02	0.987	1.02	0.985
26	1.07	0.936	1.07	0.936	1.07	0.934
27	1.13	0.886	1.13	0.885	1.13	0.883
28	1.19	0.840	1.20	0.834	1.20	0.833
29	1.25	0.799	1.26	0.797	1.26	0.794
30	1.31	0.763	1.31	0.760	1.33	0.756
31	1.38	0.727	1.38	0.723	1.40	0.718
32	1.44	0.691	1.46	0.686	1.47	0.680
33	1.51	0.662	1.53	0.656	1.53	0.650
34	1.58	0.633	1.61	0.626	1.61	0.620
35	1.66	0.604	1.69	0.597	1.70	0.590
36	1.76	0.575	1.78	0.568	1.82	0.561
37	1.84	0.552	1.87	0.543	1.91	0.536
38	1.93	0.529	1.99	0.519	. .	. . .
40	2.11	0.483	2.16	0.476	. .	. . .

t equals thickness of slab in inches.

d equals net depth of T-beam or T-girder in inches.

PITTSBURGH STEEL PRODUCTS COMPANY

Transformation Factors for Various Unit Stresses for T-Beams and T-Girders—Continued

$\frac{t}{d}$	0.30		0.31		0.32	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
15	0.52	1.938	0.52	1.955	0.51	1.972
16	0.57	1.758	0.56	1.772	0.56	1.786
17	0.61	1.649	0.60	1.660	0.60	1.672
18	0.66	1.540	0.65	1.549	0.65	1.558
19	0.70	1.432	0.70	1.438	0.70	1.445
20	0.75	1.323	0.75	1.327	0.75	1.332
21	0.80	1.250	0.80	1.253	0.80	1.256
22	0.85	1.178	0.85	1.179	0.86	1.181
23	0.90	1.106	0.90	1.105	0.91	1.106
24	0.96	1.034	0.96	1.032	0.97	1.031
24.6	1.00	1.000	1.00	1.000	1.00	1.000
25	1.02	0.983	1.02	0.981	1.02	0.982
26	1.07	0.932	1.07	0.931	1.07	0.933
27	1.13	0.882	1.13	0.880	1.13	0.884
28	1.20	0.832	1.20	0.831	1.20	0.835
29	1.26	0.792	1.26	0.790	1.26	0.792
30	1.33	0.752	1.33	0.749	1.34	0.749
31	1.40	0.713	1.42	0.708	1.42	0.706
32	1.47	0.674	1.51	0.668	1.51	0.663
33	1.56	0.643	1.58	0.635	. . .	. . .
34	1.63	0.613	1.66	0.604	. . .	. . .
35	1.74	0.583	. . .	. . .	. . .	. . .

$\frac{t}{d}$	0.33		0.34		0.35	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
15	0.51	1.989	0.50	2.006	0.50	2.023
16	0.55	1.799	0.55	1.812	0.54	1.825
17	0.59	1.688	0.59	1.695	0.59	1.706
18	0.64	1.568	0.64	1.578	0.64	1.587
19	0.69	1.453	0.69	1.461	0.69	1.468
20	0.74	1.338	0.74	1.344	0.74	1.350
21	0.79	1.261	0.79	1.266	0.79	1.271
22	0.84	1.185	0.84	1.188	0.84	1.193
23	0.90	1.109	0.90	1.112	0.90	1.115
24	0.96	1.033	0.96	1.035	0.96	1.037
24.6	1.00	1.000	1.00	1.000	1.00	1.000
25	1.02	0.981	1.02	0.981	1.02	0.981
26	1.07	0.930	1.09	0.927	1.09	0.925
27	1.13	0.879	1.14	0.874	1.14	0.870
28	1.20	0.830	1.21	0.821	1.22	0.814
29	1.28	0.781	1.29	0.773	. . .	. . .
30	1.36	0.734	. . .	. . .	. . .	. . .
31	1.43	0.696	. . .	. . .	. . .	. . .

t equals thickness of slab in inches.

d equals net depth of T-beam or T-girder in inches.

PITTSBURGH STEEL PRODUCTS COMPANY

Transformation Factors for Various Unit Stresses for T-Beams and T-Girders—Continued

$\frac{r}{d}$	0.36		0.37		0.38	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
15	0.49	2.041	0.49	2.062	0.49	2.083
16	0.54	1.839	0.54	1.857	0.54	1.875
17	0.59	1.718	0.58	1.734	0.58	1.749
18	0.64	1.597	0.63	1.611	0.63	1.624
19	0.68	1.476	0.68	1.488	0.68	1.499
20	0.74	1.356	0.73	1.365	0.73	1.374
21	0.79	1.276	0.79	1.283	0.79	1.289
22	0.85	1.196	0.85	1.201	0.85	1.204
23	0.90	1.117	0.90	1.119	0.90	1.119
24	0.96	1.038	0.96	1.037	0.97	1.035
24.6	1.00	1.000	1.00	1.000	. . .	. . .
25	1.02	0.979	1.02	0.975	. . .	. . .
26	1.08	0.920	1.09	0.916	. . .	. . .
27	1.15	0.862	. . .	. . .	. . .	. . .
28	1.22	0.816	. . .	. . .	. . .	. . .

$\frac{t}{d}$	0.39		0.40		0.41	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
15	0.48	2.104	0.48	2.125	0.48	2.140
16	0.53	1.893	0.53	1.911	0.53	1.921
17	0.58	1.765	0.58	1.781	0.58	1.788
18	0.63	1.637	0.63	1.651	0.63	1.656
19	0.68	1.510	0.68	1.521	0.68	1.524
20	0.73	1.383	0.73	1.391	0.73	1.392
21	0.79	1.289	0.79	1.289	0.79	1.290
22	0.84	1.202	0.85	1.200	0.84	1.198
23	0.90	1.117	0.90	1.116	. . .	. . .

t equals thickness of slab in inches.

d equals net depth of T-beam or T-girder in inches.

PITTSBURGH STEEL PRODUCTS COMPANY

Transformation Factors for Various Unit Stresses for T-Beams and T-Girders—Concluded

$\frac{t}{d}$	0.42		0.43		0.44	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
15	0.48	2.155	0.48	2.170	0.48	2.135
16	0.53	1.981	0.53	1.941	0.53	1.951
17	0.58	1.796	0.58	1.804	0.58	1.804
18	0.63	1.661	0.63	1.667	0.63	1.657
19	0.68	1.526	0.68	1.530	0.67	1.510
20	0.73	1.392	0.73	1.393	. . .	. . .
21	0.79	1.290	. . .	. . .	. . .	. . .

$\frac{t}{d}$	0.45		0.46		0.47	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
15	0.48	2.191	0.48	2.197	0.48	2.204
16	0.53	1.954	0.53	1.957	0.53	1.960
17	0.58	1.800	0.58	1.796	0.58	1.792
18	0.63	1.650	0.63	1.642	. . .	. . .

$\frac{t}{d}$	0.48		0.49	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
15	0.48	2.211	0.48	2.183
16	0.53	1.964	. . .	. . .

t equals thickness of slab in inches.

d equals net depth of T-beam or T-girder in inches.



## Appendix "A"—Continued

## Explanation of Tables of Transformation Factors for Various Unit Stresses in Concrete for T-Beams and T-Girders—Stress in Steel 16,000 Pounds

As a unit stress of 16,000 pounds per square inch in the steel has been almost universally accepted in the design of reinforced concrete floors, whereas regulations and specifications are often at variance upon the unit stress in concrete, the following transformation tables have been prepared for a fixed stress in the steel of 16,000 pounds per square inch.

The first column gives the ratio of the thickness of the floor slab to the net depth of T-beam or girder. Under the column heading  $f_c$ , the factors for loads  $F_L$  and the factors for steel areas  $F_S$ , are given.

The method of using this table is exactly the same as for the preceding T-beam and girder tables, except that it is not necessary to obtain the ratio of the unit stresses.

These tables give approximate results only, see explanation of preceding tables.

PITTSBURGH STEEL PRODUCTS COMPANY

Transformation Factors for Various Unit Stresses in Concrete for T-Beams and T-Girders—Stress in Steel 16,000 Pounds

$\frac{t}{d}$	$f_c = 850$ Lbs.		$f_c = 800$ Lbs.		$f_c = 750$ Lbs.	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
0.125	0.74	1.360	0.79	1.259	0.85	1.182
.13	.73	1.362	.79	1.260	.85	1.183
.14	.73	1.366	.79	1.262	.85	1.184
.15	.73	1.369	.79	1.264	.85	1.185
.16	.72	1.373	.79	1.267	.85	1.187
.17	.72	1.377	.78	1.270	.84	1.189
.18	.72	1.381	.78	1.274	.84	1.193
.19	.72	1.386	.78	1.277	.84	1.194
.20	.72	1.390	.78	1.281	.84	1.198
.21	.72	1.396	.78	1.285	.83	1.200
.22	.71	1.402	.77	1.289	.83	1.203
.23	.71	1.408	.77	1.293	.83	1.205
.24	.71	1.415	.77	1.297	.83	1.208
.25	.71	1.419	.77	1.301	.83	1.212
.26	.70	1.425	.76	1.305	.83	1.215
.27	.70	1.431	.76	1.309	.83	1.218
.28	.70	1.437	.76	1.314	.83	1.222
.29	.70	1.443	.76	1.318	.83	1.223
.30	.69	1.451	.75	1.323	.82	1.226
.31	.69	1.458	.75	1.327	.82	1.228
.32	.69	1.465	.75	1.332	.82	1.231
.33	.68	1.474	.74	1.338	.81	1.236
.34	.68	1.482	.74	1.344	.81	1.240
.35	.68	1.489	.74	1.350	.81	1.245
.36	.67	1.498	.74	1.356	.81	1.250
.37	.67	1.510	.73	1.365	.80	1.256
.38	.66	1.521	.72	1.374	.80	1.261
.39	.66	1.533	.72	1.383	.80	1.261
.40	.66	1.544	.72	1.391	.79	1.261
.41	.65	1.548	.72	1.392	.78	1.261
.42	.65	1.550	.72	1.392	..	..
.43	.65	1.555	.72	1.393	..	..
.44	.65	1.557	..	..	..	..

$t$  equals thickness of slab in inches.

$d$  equals net depth of T-beam or girder in inches.

$f_c$  equals stress in concrete per square inch.

Transformation Factors for Various Unit Stresses in Concrete for T-Beams and T-Girders—Stress in Steel 16,000 Pounds  
(Continued)

$\frac{t}{d}$	$f_c = 700$ Lbs.		$f_c = 600$ Lbs.		$f_c = 550$ Lbs.	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
0.125	0.91	1.095	1.09	0.982	1.24	0.833
.13	0.91	1.095	1.09	0.981	1.24	0.831
.14	0.91	1.095	1.09	0.981	1.24	0.829
.15	0.91	1.096	1.09	0.980	1.24	0.827
.16	0.91	1.096	1.09	0.980	1.25	0.825
.17	0.91	1.097	1.09	0.928	1.25	0.823
.18	0.91	1.100	1.09	0.927	1.25	0.820
.19	0.91	1.101	1.10	0.927	1.27	0.818
.20	0.91	1.104	1.10	0.926	1.27	0.815
.21	0.91	1.104	1.10	0.924	1.27	0.812
.22	0.90	1.105	1.10	0.923	1.27	0.810
.23	0.90	1.106	1.10	0.922	1.28	0.807
.24	0.90	1.107	1.10	0.922	1.28	0.806
.25	0.90	1.109	1.10	0.921	1.28	0.802
.26	0.90	1.112	1.11	0.920	1.30	0.799
.27	0.90	1.115	1.11	0.919	1.30	0.795
.28	0.90	1.116	1.11	0.919	1.30	0.793
.29	0.90	1.116	1.11	0.917	1.30	0.790
.30	0.89	1.116	1.11	0.915	1.30	0.788
.31	0.89	1.116	1.11	0.914	1.32	0.786
.32	0.89	1.117	1.11	0.913	1.33	0.782
.33	0.89	1.123	1.11	0.913	1.35	0.776
.34	0.89	1.126	1.12	0.909	. .	. . .
.35	0.89	1.128	1.12	0.907	. .	. . .
.36	0.89	1.130	1.12	0.901	. .	. . .
.37	0.89	1.131	. .	. . .	. .	. . .
.38	0.89	1.131	. .	. . .	. .	. . .
.39	0.89	1.131	. .	. . .	. .	. . .
.40	0.89	1.131	. .	. . .	. .	. . .

$t$  equals thickness of slab in inches.

$d$  equals net depth of T-beam or girder in inches.

$f_c$  equals stress in concrete per square inch.

Transformation Factors for Various Unit  
Stresses in Concrete for T-Beams and  
T-Girders—Stress in Steel 16,000 Pounds  
(Concluded)

$\frac{t}{d}$	$f_c = 500$ Lbs.		$f_c = 450$ Lbs.	
	Factor for Loads $F_L$	Factor for Steel Areas $F_S$	Factor for Loads $F_L$	Factor for Steel Areas $F_S$
0.125	1.32	0.755	1.52	0.661
.13	1.33	.752	1.52	.659
.14	1.35	.746	1.52	.657
.15	1.35	.740	1.54	.654
.16	1.36	.733	1.55	.650
.17	1.36	.730	1.56	.645
.18	1.38	.727	1.57	.639
.19	1.38	.723	1.59	.633
.20	1.39	.719	1.60	.627
.21	1.40	.715	1.62	.621
.22	1.40	.711	1.62	.617
.23	1.42	.707	1.64	.613
.24	1.42	.704	1.65	.608
.25	1.42	.700	1.68	.601
.26	1.44	.695	1.70	.595
.27	1.44	.691	1.71	.589
.28	1.47	.686	1.74	.582
.29	1.47	.680	1.76	.575
.30	1.47	.674	. . .	. . .
.31	1.51	.668	. . .	. . .
.32	1.51	.663	. . .	. . .

$t$  equals thickness of slab in inches.

$d$  equals net depth of T-beam or girder in inches.

$f_c$  equals stress in concrete per square inch.

## Appendix "B"

Suggested Formulas for Reinforced  
Concrete Construction

Conforming to Report of Joint Committee on Concrete and Reinforced Concrete (see Preface).

## Beams

$f_s$  = tensile unit stress in steel = 16,000 pounds per square inch.

$f_c$  = compressive unit stress in concrete = 650 pounds per square inch.

$E_s$  = modulus of elasticity of steel.

$E_c$  = modulus of elasticity of concrete.

$n = E_s \div E_c$ .

$M$  = moment of resistance, or bending moment in general.

$A$  = steel area.

$b$  = width of beam.

$d$  = depth of beam to center of steel.

$k$  = ratio of depth of neutral axis to effective depth,  $d$ .

$z$  = depth of resultant compression below top.

$j$  = ratio of lever arm of resisting couple to depth,  $d$ .

$jd = d - z =$  arm of resisting couple.

$p$  = steel ratio (not percentage).

$b$  = width of flange of T-beams.

$b'$  = width of stem of T-beams.

$t$  = thickness of flange of T-beams.

*Shear and Bond.*

$V$  = total shear.

$v$  = shearing unit stress.

$u$  = bond stress per unit area of bond.

$o$  = circumference or perimeter of bar.

$\Sigma$ , sum of the perimeters of all bars.

*Columns.*

$A$  = total net area.

$A_s$  = area of longitudinal steel.

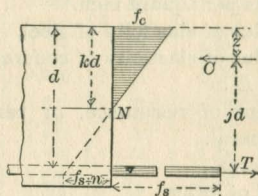
$A_c$  = area of concrete.

$P$  = total safe load.

$p$  = ratio of area of steel to effective cross sectional area.

NOTE.—Beams and girders are included by beams. All dimensions should be taken in inches.

**Rectangular Beams or Slabs**



Position of neutral axis,

$$k = \sqrt{2pn + (pn)^2} - pn = \text{Approximately } 0.38.$$

Arm of resisting couple,

$$j = 1 - \frac{1}{3}k = \text{Approximately } 0.875.$$

Fiber stresses,

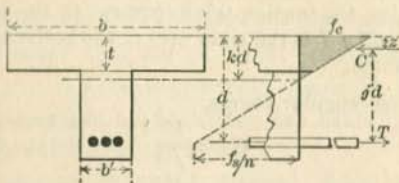
$$f_s = \frac{M}{Ajd} = \frac{M}{pjbd^2} \quad f_c = \frac{2M}{jkb^2d^2} = \frac{2pf_s}{k}.$$

Steel ratio, or using above approximate values for  $k$  and  $j$ .

$$f_s = \frac{8M}{7Ad} \text{ and } f_c = \frac{6M}{bd^2} \quad f_c = \frac{16}{3}f_s p.$$

$$p = \frac{1}{2} \frac{1}{\frac{f_s}{f_c} \left( \frac{f_s}{nf_c} + 1 \right)}$$

## T-Beams



*Case I.* When the neutral axis lies in the flange, use the formulas for rectangular beams.

*Case II.* When the neutral axis lies in the stem.

The following formulas neglect the compression in the stem :

Position of neutral axis,

$$kd = \frac{2ndA + bt^2}{2nA + 2bt}$$

Position of resultant compression,

$$z = \frac{3kd - 2t}{2kd - t} \cdot \frac{t}{3}$$

Arm of resisting couple,

$$jd = d - z.$$

Fiber stresses,

$$f_s = \frac{M}{Ajd} \quad f_c = \frac{Mkd}{bt(kd - \frac{1}{2}t)jd} = \frac{f_s}{n} \frac{k}{k-1}$$

For approximate results, the formulas for rectangular beams may be used.

## Shear, Bond and Web Reinforcement

In the following formula,  $\Sigma_o$  refers only to the bars constituting the tension reinforcement at the section in question and  $j d$  is the lever arm of the resisting couple at the section.

For rectangular beams,

$$v = \frac{V}{b j d}$$

$$u = \frac{V}{j d \cdot \Sigma_o}$$

[For approximate results,  $j$  may be taken at  $\frac{7}{8}$ .]

The stresses in web reinforcement may be estimated by using the following formulas:

Vertical reinforcement,

$$P = \frac{Vs}{j d}$$

Reinforcement inclined at  $45^\circ$ ,

$$P = 0.7 \frac{Vs}{j d}$$

in which  $P$  = stress in single reinforcing member,  $V$  = proportion of total shear assumed as carried by the reinforcement, and  $s$  = horizontal spacing of the reinforcing members.

For T-beams,

$$u = \frac{V}{j d \cdot \Sigma_o}, \quad v = \frac{V}{b j d}$$

[For approximate results,  $j$  may be taken at  $\frac{7}{8}$ .]

### 5. Columns.

Total safe load,

$$P = f_c (A_c + n A_s) = f_c A (1 + (n-1) p)$$

$$\text{Unit stresses, } f_c = \frac{P}{A (1 + (n-1) p)}$$

$$f_s = n f_c$$



## Appendix "C"

## Suggestion for Ordering Reinforcements

In order to obviate errors in the placing of orders, it is suggested that the purchaser send dimensioned floor layouts, showing the position of the walls, columns, beams and girders, with the floor slab, beam and girder reinforcement indicated on same.

In ordering Pittsburgh Standard Slab Reinforcement, the number of mesh and the width and length of reinforcing sheets should be indicated. As for example: 3 #15 fabric 5'  $\times$  18' means three sheets of No. 15 fabric 5 feet wide by 18 feet long. The thickness of the floor slab and preferably the live load per square foot to be carried should also be noted.

Reinforcing frames are made for various classes of construction. Those for T-beams should be marked "T. B."; those for T-girders should be marked "T. G." For combined concrete and tiled floor, "C"; for lintels, "L"; for rectangular beams, "R," and for footings, "F."

In ordering frames indicate first the number required; second, class of beam for which they are intended; third, total depth of beam in inches; fourth, the length center to center of supports in feet and inches. For instance: 2 "T. G.," #14, 21"  $\times$  24'-0" means two No. 14 frames for a T-girder having a total depth of 21 inches and a length center to center of supports of 24 feet.

In the case of frames for footings, the over-all dimension of the footing should be given instead of the distance center to center of supports. For instance:

8 F, #15, 20' 9" means eight frames, No. 15, for a footing 20 feet 9 inches square.

8 L, #14, 20"  $\times$  20'-00" means eight No. 14 frames for a lintel, 20 inches total depth of beam and 20 feet long.

Attention of the manufacturer should be invited to beams and girders computed on the basis of  $\frac{1}{8} wl^2$  or  $\frac{1}{12} wl^2$ , excepting in the case of the lintels, which have been computed in this book on the basis of  $\frac{1}{8} wl^2$ . This is important, as the tables generally have been computed on the basis of  $\frac{1}{10} wl^2$ . The manufacturers' attention should further be called to the beam and girder reinforcement adjacent to stairways, open wells, elevator shafts and to any special features of design.

For the small buildings of simple design a floor layout will not always be necessary, but is preferred. In ordering reinforcement without layout plans the nomenclature hereinbefore given should be used.

## Index

	Page
<b>A</b>	
Areas, bottom bars, standard frames . . . . .	21
Areas, reinforcement, per foot of slab . . . . .	23-25
Areas, round and square bars . . . . .	24-25, 334
Areas, slab reinforcement (Pittsburgh) . . . . .	23
Areas, standard bars . . . . .	20
Appendix A—Transformation factors . . . . .	367-386
Appendix B—Formulas for design . . . . .	387-390
Appendix C—Rules for ordering reinforcements . . . . .	391, 392

**B**

Bar, round and square, weights, areas . . . . .	334
Bars, spacing . . . . .	23-25
Bars, standard, dimensions . . . . .	11-13, 20
Beams, forms . . . . .	304
Beams, lintels, tables . . . . .	279-284
Beams, rectangular tables . . . . .	272-278
Beams, T, explanation of tables . . . . .	35-40
Beams, T, tables . . . . .	59-192
Beams, T, specials, explanation of tables . . . . .	41-48
Beams, T, specials, tables . . . . .	193-251
Beams, timber tables . . . . .	316-323
Beams, transformation factors . . . . .	367-386
Brads, nails, spikes, etc. . . . .	306-315
Building regulations . . . . .	34

## C

	Page
Certificate of test, Wm. Barclay Parsons . . .	7
Circles, circular areas, circumferences . . .	341-360
Compression, timber fibers . . . . .	323
Column footings . . . . .	293-296
Column forms . . . . .	305
Columns, hooped tables . . . . .	289-292
Columns, square tables . . . . .	285-288
Columns, timber table . . . . .	316-322
Columns, volume of concrete . . . . .	300-301
Columns, weight of concrete . . . . .	302-303
Combination concrete and hollow tile, tables	270-271
Concrete, formulas . . . . .	387-390
Concrete, materials, per barrel and yard . .	297
Concrete, volume, beams and columns . . .	300-301
Concrete, volume, T-beams and girders . .	298-299
Concrete, weight, beams and columns . . .	302-303
Concrete, weight, T-beams and girders . . .	32-33
Cubes, cube root . . . . .	341-360

## D and E

Decimal and fractional inches, decimal feet . .	335
Decimal feet, fractional inches . . . . .	336-337
Deflection, timber beams . . . . .	316-321
Design reinforced floors (beams and girders)	49-58
Explanation, floor slab, tables . . . . .	252, 253
Explanation, hollow tile floor, tables . . . .	270
Explanation, lintel tables . . . . .	279
Explanation, rectangular beam tables . . . .	272

**PITTSBURGH STEEL PRODUCTS COMPANY**

	Page
Explanation, T-beam tables . . . . .	35-40
Explanation, T-girder and special T-beam tables . . . . .	41-48
Explanation, transformation factors, various stresses . . . . .	367-386

**F, G, H and I**

Floor slab reinforcement . . . . .	10, 15, 23
Floor slab tables . . . . .	252-269
Forms, beams and girders . . . . .	304
Forms, columns . . . . .	305
Footing, tables . . . . .	293-296
Formulas, concrete. Joint Committee . . . . .	387-390
Foundations . . . . .	293-296
Fractional inches, decimal inches and feet . . . . .	335
Fractional inches, decimal feet . . . . .	336-337
Frames, typical . . . . .	14
Framing plans . . . . .	18
Gauges, wire . . . . .	333
Girders, T, explanation tables . . . . .	41-48
Girders, T, tables . . . . .	193-251
Hollow tile floors . . . . .	270-271
Inches, fractional, decimal and decimal feet . . . . .	335-337

**L, M, N, O and P**

Lintel tables . . . . .	279-284
Materials for concrete . . . . .	297
Mensuration . . . . .	324-325
Modifying factors for width T-beam . . . . .	31
Nails, spikes, brads . . . . .	306-315

**PITTSBURGH STEEL PRODUCTS COMPANY**

	Page
Natural trigonometrical functions . . . . .	361-366
Ordering reinforcement . . . . .	391-392
Packing frames, T-beams and girders . . . . .	16-17
Parsons, Wm. Barclay, certificate . . . . .	7
Plans, framing . . . . .	18
Preface . . . . .	5-6

**R and S**

Reciprocals of numbers . . . . .	341-360
Rectangular beam tables . . . . .	272-278
Rectangular beams, transformation factors . . . . .	367-370
Reinforcements beams and girders . . . . .	8-9, 14, 21
Reinforcement, slabs . . . . .	10, 15, 23
Reinforcement, specifications . . . . .	19
Rules, concrete, Joint Committee . . . . .	387-390
Slab reinforcements . . . . .	10, 15, 23
Slab tables . . . . .	252-269
Specification, steel . . . . .	19
Spikes, nails, brads, etc. . . . .	306-315
Standard bars . . . . .	11-13, 20
Standard frames . . . . .	8-9, 14, 21
Standard frames, weights . . . . .	22
Standard reinforcement, beams and girders . . . . .	8-9, 14, 21
Standard reinforcement, slabs . . . . .	10, 15, 23
Standard specifications . . . . .	19

**T and U**

T-beam tables, explanation . . . . .	35-40
T-beam tables . . . . .	59-192
T-beams and girders, dimensions . . . . .	16-17

PITTSBURGH STEEL PRODUCTS COMPANY

	Page
T-beams and girders, transformation factors	367-386
T-beams and girders, weights . . . . .	32-33
T-girders and special T-beam tables (explanation) . . . . .	41-48
T-girders and special T-beam tables . . . . .	193-251
Tile table . . . . .	270-271
Timber tables . . . . .	316-323
Transformation factors . . . . .	367-386
Trigonometry . . . . .	326-328
Trigonometrical functions . . . . .	361-366
Typical frames . . . . .	14
Unit stresses, various . . . . .	367-386

**V and W**

Various unit stresses . . . . .	367-386
Volume concrete, T-beams and girders . . . . .	298-299
Volume concrete, rectangular beams and columns . . . . .	300-301
Weights, concrete beams and columns . . . . .	302-303
Weights, concrete T-beams and girders . . . . .	32-33
Weights of frames . . . . .	22
Weights of materials . . . . .	338-340
Weights and measures . . . . .	329-330
Weights of standard bars . . . . .	20
Weights of substances . . . . .	338-340
Widths of beams developed by frame . . . . .	26-31
Wire gauges . . . . .	333
Wire, plain . . . . .	331
Wire, smooth . . . . .	332
Wooden beams and columns, tables . . . . .	316-323

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