



CERTIFICATION PROGRAMS

Mock Exercise Instructions for Erector Metal Deck Installation Endorsement

1. Scope

For applicability, refer to the *Supplemental Program Requirements for Structural Steel Erectors*.

2. Assembly Instructions

1. The mock exercise demonstration shall produce a deck assembly consisting of at least two beams and steel deck as shown in Attachment A.
2. Beams shall be placed on a level surface a minimum of 10'-0" apart.
3. Attach supports to beam ends.
4. The steel deck shall be anchored to one beam using arc spot welds and to the other beam using mechanical fasteners.
5. Installation of deck shall comply with the requirements of ANSI/SDI RD-2017 Standard for Steel Roof Deck, including:
 - a. The use of weld washers
 - b. The number and spacing of arc spot welds or mechanical fasteners
 - c. Side lap connections
6. All welding shall be performed by a certified welder using valid WPSs in accordance with AWS D1.3.
7. Mechanical fasteners shall be installed in accordance with the manufacturer's instructions.

3. General Instructions

1. The erector's installation crew shall follow all applicable safety requirements of their Safety Management System and quality requirements of their Quality Management System.
2. The erector shall prepare a Site Specific Safety and Erection Plan for the mock exercise.
3. The auditee shall be responsible for the required inspections shown in Table 1.
4. The auditor shall observe the decking installation. The auditor may request alternate sequences in agreement with the auditee to meet unforeseen site conditions.



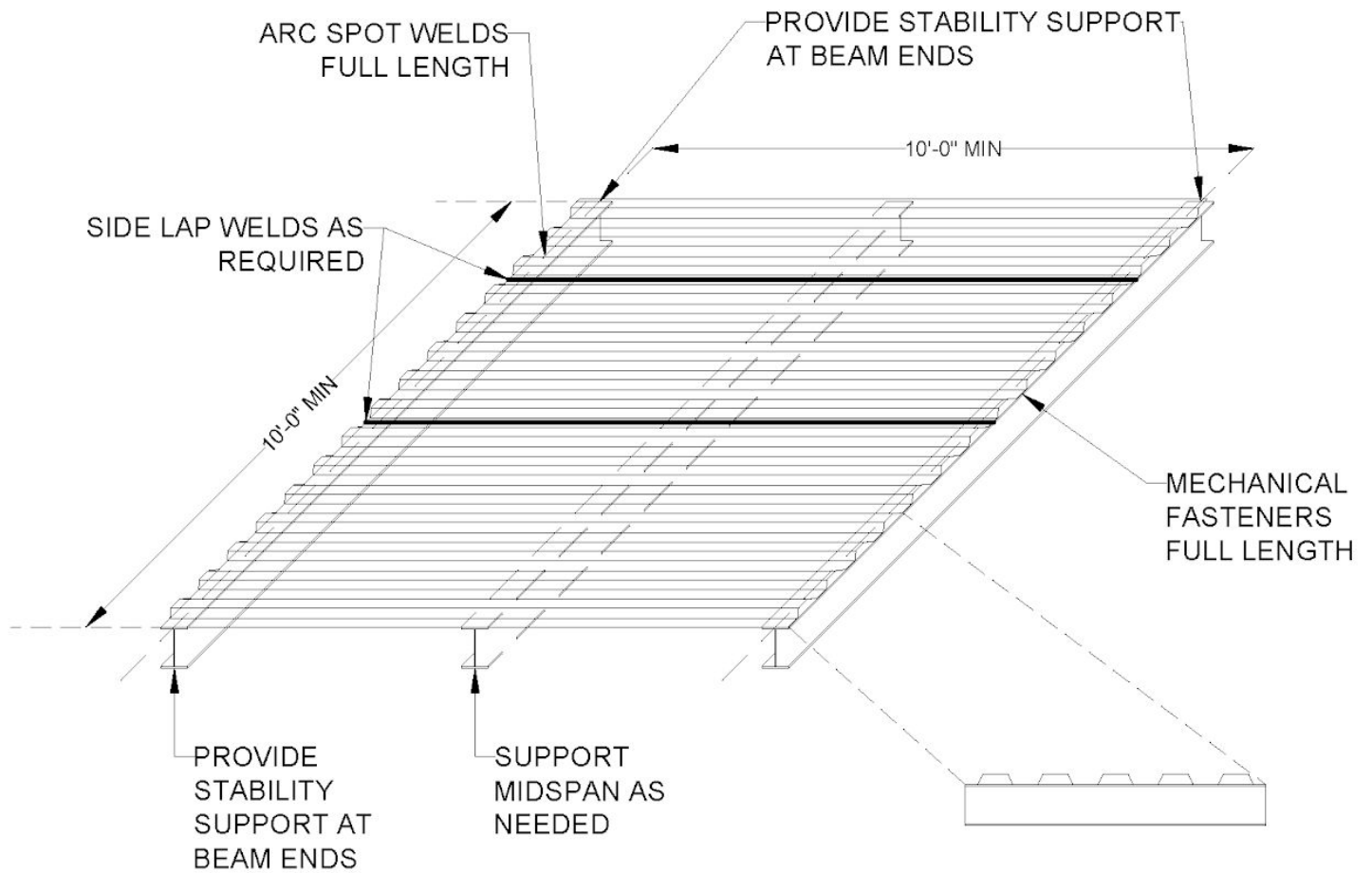
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TABLE 1 Sequencing of Erection, Inspection and Audit Activities

Erection Activity	Inspection Instructions	Audit Activities
Mechanical Fasteners	Perform and document mechanical fastening inspection tasks in accordance with ANSI/SDI QA/QC-2017	<p>The on-site auditor shall observe the completed installation of mechanical fasteners.</p> <p>The Installer's QC and inspection records shall be made available for the onsite auditor to review.</p>
Arc Spot and Side Lap Welds	Perform and document welding inspection tasks in accordance with ANSI/SDI QA/QC-2017	<p>The on-site auditor shall observe the completed welds.</p> <p>The Installer's QC and inspection records shall be made available for the onsite auditor to review.</p>
Final Inspection	Required final inspections shall be performed in accordance with the erector's Quality Management System.	The Installer's QC and final inspection records shall be made available for the onsite auditor to review.



Attachment A



Mock Exercise for Metal Deck Installation Endorsement

Note: Steel components (member sizes and associated connections) shall be of adequate size and strength to provide stability of the structure during the exercise.