

Section 75 Miscellaneous Metal

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4-7501 General

This section presents some steps assistant resident engineers should follow when inspecting the installation of any miscellaneous metals for a construction project. Miscellaneous metals include miscellaneous iron and steel, miscellaneous metal (bridge), miscellaneous metal (restrainer), and pumping plant metal work.

4-7501 General

4-7502 Before Work Begins

Well in advance before the start of work, review the contract plans and note all the miscellaneous metals to be installed on the project. Reviewing these items sufficiently in advance helps prevent scheduling conflicts and errors in ordering materials. During the preliminary review and inspections, the assistant resident engineer should also do the following:

4-7502 Before Work Begins

- Verify the receipt and proper distribution of Form CEM-3101, “Notice of Materials to Be Used”, which covers miscellaneous metals.
- If required, obtain from the Office of Materials Engineering and Testing Services (METS) approval of foreign manufacturers before the manufacturers furnish the materials. (Refer to Section 6-1.08 of *the Standard Specifications*, which covers the use of foreign materials.)
- Upon delivery, check the materials’ identification marks or inspection tags (using Form TL-0624, “Inspection Release Tag”) and match these marks and tags against those listed in Form TL-0029, “Report of Inspection of Material.” See Section 6-2, “Acceptance of Manufactured Material and Sampling Methods,” of the *Construction Manual* (manual) for more explanation.
- Require the repair of any minor damage to galvanizing or coatings, as specified in Section 75-1.05 of the *Standard Specifications*.
- Refer to the contract specifications and Section 3-605, “Certificates of Compliance,” of this manual regarding Buy America requirements.

4-7503 During the Course of Work

During work operations, the assistant resident engineer should do the following:

4-7503 During the Course of Work

- Ensure that any welding of miscellaneous metals conforms to American Welding Society (AWS) D1.1 or as specified in the contract documents.
- Ensure that frames and grates or frames and covers are match marked.
- Ensure that deck drains and other grating openings are covered until final cleanup of the deck.
- Require testing of deck drains as specified.

Additional information about mechanical anchorage devices and high strength bolts can be found in sections 135 and 170 of the *Bridge Construction Records and Procedures Manual*, respectively.

4-7504 Measurement and Payment **4-7504 Measurement and Payment**
Require scale weights for miscellaneous metal unless quantities are designated as final pay quantities. Make the specified deductions when materials are remotely manufactured, per Section 75-1.07, “Payment,” of the *Standard Specifications*.