

## 1623 - STEEL PERMANENT DECK FORMS

### SECTION 1623

#### STEEL PERMANENT DECK FORMS

##### 1623.1 DESCRIPTION

This specification governs the requirements for the steel utilized to fabricate permanent deck forms.

##### 1623.2 REQUIREMENTS

**a. General.** These forms are, by design, incorporated into the structure as an integral component. They contain the concrete during placement and add support to the deck of the finished structure. The design, dimensions, steel designation and thickness in inches, and specific fabrication requirements are to be as specified in the Contract Documents, or on the shop drawings.

**b. Material Specifications.** Use steel in these forms that complies with ASTM A 653, structural steel (SS) and high strength low alloy steel (HSLAS), zinc coated to the Coating Designation G210 requirements. All HSLAS Type A and B Grades are acceptable. All SS Grades, except 50, are acceptable. Certain HSLAS require specific welding procedures. If welding of these steels is required, consult the steel producer.

##### 1623.3 TEST METHODS

Conduct all tests required by the applicable ASTM specifications of **subsection 1623.2b**. Coating thickness may be measured by any one of the methods specified in ASTM B 633 and by eddy current methods, ASTM B 244, provided that appropriate calibration procedures and standards have been applied. The magnetic induction and eddy current methods are nondestructive in nature and are preferred. Destructive techniques, i.e., coating removal, may be utilized as referee methods.

##### 1623.4 PREQUALIFICATION

Not applicable.

##### 1623.5 BASIS OF ACCEPTANCE

Receipt and approval of a Type D certification as specified in **DIVISION 2600**.

Inspection and testing by field personnel of delivered permanent deck forms for compliance with dimensional and corrosion protection coating requirements, quality of workmanship, delivery condition, approval of required associated documentation, and any other requirements as may be specified in the Contract Documents. Coating thickness will be measured according to any of the procedures of **subsection 1623.3**.