

1613 - MALLEABLE CAST IRON PRODUCTS

SECTION 1613

MALLEABLE CAST IRON PRODUCTS

1613.1 DESCRIPTION

This specification governs products for various applications cast from malleable iron.

1613.2 REQUIREMENTS

a. General. Provide castings that comply with the design, dimensions, requirement for corrosion protection, and specific fabrication requirements specified in the Contract Documents. Unless corrosion protection is specified, the cast products are to be provided in the as-cast and as-machined condition.

b. Material Specifications.

(1) Provide ferritic malleable iron castings that comply with ASTM A 47. Weld joining or repair of these castings is permitted only with prior approval of the KDOT and must be in compliance with ASTM A 47.

(2) When corrosion protection is specified, zinc coat the castings by the hot dip galvanizing process in compliance with ASTM A 47, Supplementary Requirement S5.

1613.3 TEST METHODS.

Conduct all tests required by the applicable ASTM specifications of **subsection 1613.2b**. Measure coating thickness 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.

1613.4 PREQUALIFICATION

Not applicable.

1613.5 BASIS OF ACCEPTANCE.

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

Inspection and testing by field personnel of all components for compliance with dimensional requirements and corrosion protection coating thickness when corrosion protection is specified. Coating thickness is to be measured according to any of the procedures of **subsection 1613.3**.

The final disposition of all components will be completed at the final destination as the result of inspection for the quality of workmanship and the delivery condition.