Design Guideline 051000
Metals

Scope

Structural steel, metal deck, and metal fabrications.

Design and Installation Requirements

Structural Steel

Structural Steel Lintels and Shelf Angles - Lintels and shelf angles provided for support of masonry veneers exposed to weather must comply with the following requirements:

- Units must be hot-dip galvanized after fabrication or stainless steel.
- Leg thickness must be sized for structural loads, but not less than 3/8-inch thick.
- All exposed structural steel, not encased in fire protection, or composed of stainless steel shall be painted.

Metal Roof Deck

All metal roof decks must be hot-dip galvanized (ASTM A 525 G60 coating).

Miscellaneous Metal Fabrications

Guardrails and Handrails - Specify hot-dipped galvanized steel for all exterior locations exposed to weather. Alternatively, stainless steel, bronze, anodized aluminum and other materials may be used with the approval of the Design Manager.

Handrails in concrete paving and walks may be set in sleeves or core drilled holes. Depth of core must be not less than 4-inches deep and of a diameter not less than 1-inch wider than outside pipe diameter. Set rails in non-shrink, erosion resistant grout.