

SECTION 050000-METALS

PART 1 - GENERAL

1.1 RELATED SECTIONS:

Refer to Section 070000 for the requirements relating to flashing and sheet metal in conjunction with roofing, including gutters, downspouts, scuppers, gravel stops, pitch pans, etc.

1.2 SCOPE OF SECTION:

This section contains the requirements relating to structural metal framing, metal joists, metal decking, cold formed metal framing, metal fabrications, sheet metal fabrications (except as used with roofing), and ornamental metal.

1.3 GENERAL:

Waste materials shall be disposed of by contractor off-site at contractor's expense.

1.4 STRUCTURAL METAL FRAMING:

1.5 METAL JOISTS:

1.6 METAL DECKING:

Designer shall consider ventilated metal decks to avoid recurring condensate problems.

1.7 COLD FORMED METAL FRAMING:

A. INTERIOR WALLS:

1. Metal framing shall be used for interior wall partitions as wood framing is not acceptable.
2. Interior partition wall studs will be 25 gauge.
3. Ten foot partition walls will be braced in opposite directions on four foot centers, using 1 1/2" bracing stock.
4. Smoke partitions (studs to deck) will be braced with cold rolled channel.

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5. Door jambs studs will be 20 gauge.
6. Door jambs will have welded plates at bottom and sides for anchoring.
7. Jamb plates will be shot down to concrete with power actuated gun.
8. Jamb header and hinge side will be plumb and level.
9. Exterior door jambs will be galvanized metal.
10. Exterior door jambs will have drip edge to prevent corrosion.
11. Door jambs will have reinforced header for hardware mounting.

B. EXTERIOR WALLS:

1.8 METAL FABRICATIONS:

A. SAFETY CAGES:

1. Ladders, catwalks, etc., shall be fitted with safety cages, per OSHA requirements.
2. In exterior applications, provide hot-dipped galvanized steel for safety cages and ladders.

B. EXTERIOR HANDRAILS:

1. All railing shall be fabricated from extruded aluminum or stainless steel.
2. Handrails shall be maintenance free.
3. Handrails shall not be field painted. Any color finishing shall be factory applied.
4. Where railings are installed in concrete, sleeves shall be used to facilitate removal of the rail.
5. During renovation or expansion to existing building, Designer shall consider replacement of existing handrails to match the new handrail system.

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C. EXTERIOR STAIR NOSINGS:

All stair treads shall have a nosing with minimum 4" wide abrasive non-slip surface, and heavy duty aluminum frame.

1.9 SHEET METAL FABRICATIONS:

END OF SECTION