

DIVISION 8 - DOORS AND WINDOWS

Section 08110 - Steel Doors and Frames

Introduction

This is a section where the consultant should use a "performance specification". Do not specify proprietary manufacturer's names or materials, and do not restrict vendors to a limited list.

Do not specify knock-down or so-called "drywall" metal door frames.

Part 1 - General

- Require that all steel doors and frames comply with the requirements of:
 - National Association of Architectural Metal Manufacturers Standard HMMA 861
 - Building Hardware Manufacturer's Association (BHMA)
 - Underwriter's Laboratories (UL) rated and labeled where required
- Require submittal of:
 - manufacturer's literature
 - shop drawings
 - Complete door and frame schedule covering every opening

Part 2 - Products

- Specify doors and frames in the following gauges:
 - exterior frames: 14 gauge
 - interior frames > 4'-0": 14 gauge
 - interior frames < 4'-0": 16 gauge
 - doors: 18 gauge
- Specify doors and frames with factory-applied primer, ready for field finishing.
- Specify and detail door frames with:
 - fully mitered, welded, and ground corners
 - double rabbeted profiles, with equal-sized rabbets
 - 2" rails and head, and always equal-size
 - exterior sidelights and transoms for interior glazing only
 - lights which extend to the floor with 4" bottom rails
 - mortar boxes for all hardware
 - ASA strikes for full mortise locks
 - 4 wall anchors plus 2 drilled floor anchors per jamb
 - corrugated 14 gauge T-type for masonry walls
 - welded to frame for stud walls
 - weld jamb clips at metal stud walls to door frame
 - use dimpled anchors only for openings in existing walls.
- silencers on all frames

- Specify and detail doors with:
 - seamless faces
 - edge seams welded and ground
 - rigid polystyrene core fully bonded to the steel face sheets
 - closed watertight top
 - inverted bottom closure channel
 - minimum 6" head rail, 6" stiles, and 12" bottom rail, at all lights and louvers
 - provide pockets for full mortise lock
- Specifically require that doors and frames be prepared and internally reinforced at the factory for installation of butts, closers, locksets, exit devices, and all other scheduled hardware. Specifically prohibit field preparation of steel doors and frames.
- Make specific reference that the rabbet of door frames be sized, and that factory preparation for butts in both doors and frames must make allowance, for silencers or smoke gaskets.

Part 3 - Execution

- Specifically require that all doors and frames be installed in conformance with HMMA, BHMA, and UL requirements.
- Require that all doors be completely hung, with all hardware installed, tested, and adjusted for perfect fit, prior to field finishing. Require that doors be dismantled and hardware removed, and re-hung after finishing is complete.

End of Section 08110