

Division 08 10 00 | Doors and Frames

This design guideline is written to the designer of record (DOR). This guideline is written to document UA standards of work, assist the designers in ensuring UA standards are incorporated into the contract documents and provide a resource to facilitate the design process. It is the designer of record's responsibility to coordinate the criteria set forth in these design guidelines and in conjunction with the manufacturer requirements and use the most stringent standard.

Wood and Hollow Metal Doors

1. Solid core wood flush doors, flush face, interior shall conform to the requirements of the following codes and standards:
 - A. Architectural Woodwork Institute
 - B. National Fire Protection Association
 - C. National Fire Code
 - D. National Wood Window & Door Association
 - E. Standard Building Code
 - F. Underwriters' Laboratories
2. Warranty for solid core wood flush doors shall be for the life of the installed wall assembly.
3. For renovation work in existing building, it should be verified with the Facilities Planning Department whether doors should match.
4. In general, wood doors will be 1 ¾" solid core wood, faced in wood veneer with PC-5 (particle board core, 5 ply) core, "custom" grade. For executive offices and conference rooms or libraries use "premium" grade.
5. Wood veneer for doors to receive stain finish is preferred to be white birch, rotary cut, unless Designer is matching existing doors. Natural birch doors are acceptable if dark stain is to be used.
6. No plastic faced doors or hollow core doors will be used without special permission.
7. Hollow metal doors and aluminum storefront doors are approved for special applications, but their proposed use must be approved by Facilities Planning Department.
8. Stile and rail panel doors may be used if reviewed and authorized by the Facilities Planning Department.
9. Provide a mid-rail in the door where exit hardware is required in "full glass" doors. (We do not want the backside of exit device exposed through the glass)
10. Fire rated doors shall be U.L. approved metal labels. Labels shall not be painted over.
11. Designer will specify two coats of alkyd based primer prior to two finish coats on all exterior wood doors.
12. Wide stile aluminum entry doors are required at storefront entrances with continuous hinges.



13. Where traditional look is appropriate for exterior use, use a solid, aluminum clad door as manufactured by “Special-Lite”. “Tru-Style” doors are not acceptable.
14. Where glass lites are installed in doors, provide foam tape as an alternate method to secure glass in door.
15. All edged and faces of doors shall be sealed.
16. Doors will be stored in a temperature and humidity controlled environment prior to installation per manufacturer’s recommendations.

Hollow Metal Steel Frames

1. Steel door frames must be a minimum 14 gauge for exterior locations, oversized openings (incorporating borrowed light, transoms, or more than 3’-4” width), and rated assemblies. Other door frames can be 16 gauge.
2. Back prime exterior and wet location hollow metal door frames with a bituminous coating.
3. Adjacent veneer masonry shall not be laid hard to the frame. A minimum ¼” joint shall be maintained.
4. Glazing stops to be placed on secured side of opening.
5. All hollow metal door frames to be welded construction. Knocked down NOT allowed, unless approved by Facilities Planning Department.
 - A. Construction:
 - 1) Store in a protected dry area under cover.
 - 2) Place units on wood skids and store in manner that will prevent corrosion and damage.
 - 3) Store assemblies upright, do not stack flat.
 - 4) Adequately brace frames during construction to ensure no deflection.
 - B. Installation Tolerances:
 - 1) Adjust Standard Steel door frames for squareness, alignment, twist and plumb to the following tolerances:
 - a. Squareness: Plus or minus 1/16”, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
 - b. Alignment: Plus or minus 1/16”, measured at jambs on a horizontal line parallel to the plane of the wall.
 - c. Twist: Plus or minus 1/16”, measured at opposite face corner of jambs on parallel lines, and perpendicular to plane of wall.
 - d. Plumbness: Plus or minus 1/16”



C. Door Installation:

- 1) Fit hollow metal door accurately in frames, within clearances specified in SDI-100.
- 2) Place fire-rated doors with clearances as specified in NFPA Standard No. 80.
- 3) Provide reinforcement at all hardware attachment locations.
- 4) Coordinate frame with security and electronic hardware.

- End of Guideline -

