



Construction Standards

.1 General Design Considerations

- .1 Building entrances shall typically be aluminum, or wood when required to match an existing condition. Use steel exterior doors at locations with low public traffic (utility rooms, service access etc.). Exterior metal doors and frames shall be thermally broken wherever possible.
- .2 Wood doors are typical for all interior locations. Use steel doors alternatively in high traffic applications, to satisfy required fire resistance ratings, for security purposes, or to match an existing condition.
- .3 Typical door sizes
 - .1 Typical thickness: 44 mm.
 - .2 Minimum stile and top rail width: 125mm aluminum; 150mm wood doors.
 - .3 Bottom rail: min 250mm
 - .4 Minimum width: 900 mm single and 1800 mm double doors.
 - .5 Mechanical rooms: minimum width 1200 mm, single or double doors. Double doors shall have the active leaf 900 (or 915) mm wide.
- .4 Interior doors and windows used with modular wall partitions are desirable in office and meeting room locations to minimize the impacts of churn.
- .5 The University encourages the use of glass panels in interior doors, to provide natural light in corridors. Frameless glass doors shall be avoided.
- .6 All fasteners within secured areas shall be tamper resistant torx (or pin-in-torx, or torx TR).
- .7 Interior door locations shall provide adequate clearance behind the door opened at 90⁰ and the adjacent wall. The clearance between the edge of hinge side frame and adjacent wall:
 - .1 100 mm – typical at offices, classrooms, labs, etc.
 - .2 650 mm – typical at filing rooms, lunchrooms, office supply storage, etc.
- .8 Shop drilling and notching shall be specified wherever possible.

.2 Quality Assurance

- .1 Exposed exterior doors, particularly glazed assemblies within curtain wall or window wall assemblies shall specify required performance criteria as outlined in Section 8.1.
- .2 Provide requirements for third party testing and verification of performance criteria as outlined in Sections 1.2 and 8.1.

.3 Wood Doors

- .1 Faces (rated and non-rated assemblies):
 - .1 Type 1: Hardwood veneer; solid core, rotary cut sound birch or maple.
Finish: clear factory coating, satin sheen.
Application: Typical; General offices, Classrooms.
 - .2 Type 2: Hardboard, solid core, painted.
Application: Residences, other locations as approved by FMGT.



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.3 Core: Solid wood or composite core (mineral core is not acceptable).

.4 Steel Doors

.1 Use hollow core, welded assemblies (pressed seams not acceptable)

.2 Thickness of materials (minimum / mm):

.1 Face sheet – interior doors typical 1.2 (18 gauge)

.2 Face sheet - exterior doors 1.6 (16 gauge)

.3 Top and Bottom Channels 1.2 (18 gauge)

.5 Frames

.1 Use steel frames for typical interior doors and windows

.1 All frames to be welded pressed steel. Knock-down steel frames are not acceptable.

.2 Throat size to suit GWB wall construction for wrap around assembly.