

NC State University Design and Construction Guidelines

Division 08 Openings – Doors

1.0 Purpose

- A. These guidelines provide requirements for designers to incorporate into bid documents.

2.0 General Requirements

- A. Doors should be consistent with the building architecture. For renovations, new interior doors and frames shall match existing doors and frames in adjacent areas.

3.0 Materials & Standards

- A. Exterior doors:

1. Main and secondary building entrance doors shall be heavy-duty commercial aluminum storefront with steel reinforcements for all hardware: closers, locks, exit devices, butt hinges, and power operators.
2. Exterior aluminum frames shall be steel reinforced for hardware: butt hinges, continuous hinges, and strikes.
3. Exterior service doors shall be hollow metal: 16-gauge steel (min.) face panel, 14-gauge (min.) frame.
4. The minimum clear opening size shall be 3'-0" wide x 7'-0" high.
5. Double door sized openings shall use a keyed removable center mullion.
6. Automatic door openers shall be provided on all main entrance doors, including air lock doors. The automatic door opener's push-plate actuators shall be protected with an all-weather seal.
7. Floor mounted closers shall not be used.

- B. Interior Doors:

1. Interior doors shall be flush face, solid lumber, wood stave core doors per AWI Section 1300 specifications. The veneer face shall be red oak, rotary cut or plain sliced. Transparent finished wood doors shall be factory finished to meet or exceed AWI specifications.
2. Interior door frames shall be 16-gauge steel (min.)
3. Provide a minimum of three anchors per jamb for doors up to and including 7'-6" high. Provide four anchors for doors from 7'-6" high up to and including 8'-0" high. Provide one anchor per every two feet for doors over 8'-0" high.
4. Mineral core doors may be used only where a fire rating for the door is required. Solid wood blocking for hinges and closers shall be provided.
5. The minimum clear opening size shall be 3'-0" wide x 7'-0" high.