

SECTION 08 14 16  
FLUSH WOOD DOORS  
Design Standard

PART 1 GENERAL

1.1 PURPOSE:

Interior doors play an important role in the user's experience of the interior built environment, and are perhaps the most intimately experienced element of the interior built environment, because they are used daily to enter and exit the rooms and spaces within a building. Doors should be inviting, easy to find, easy to use, durable and maintainable, add aesthetic value to the interior environment, and allow authorized entries while restricting unauthorized entries. The interior door design standards cited herein are intended to establish and maintain a minimum level of interior door quality in the educational and work facilities of San Mateo County Community SMCCCD has standardized College District buildings.

A. Sustainability Requirements:

1. San Mateo County Community College District is strongly committed to promoting sustainability throughout their campus projects. Section 01 81 13 Sustainability of the Design Standard provides guidelines and recommendations for implementing sustainability strategies. Where relevant, specific sustainability criteria is noted in this section; however, each project team should review and cross reference that front section while developing the specific project and its documentation. Each discipline shall confirm that specific performance and manufacturer information provided in the specification section is in alignment with code requirements, LEED criteria, and any other goals for sustainability.

1.2 REFERENCE STANDARDS

- A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; current edition.
- B. ANSI A208.1 - American National Standard for Particleboard
- C. AWI (QCP) - Quality Certification Program, [www.awiqcp.org](http://www.awiqcp.org); current edition at [www.awiqcp.org](http://www.awiqcp.org).
- D. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards
- E. AWMAC (GIS) - Guarantee and Inspection Services Program; current edition at [www.awmac.com/gis.php](http://www.awmac.com/gis.php).
- F. NFPA 80 - Standard for Fire Doors and Other Opening Protectives
- G. NFPA 105 - Standard for Smoke Door Assemblies and Other Opening Protectives
- H. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association
- I. UL 10B - Standard for Fire Tests of Door Assemblies; Current Edition, Including All Revisions.
- J. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.
- K. WDMA I.S.1-A - Architectural Wood Flush Doors; Window and Door Manufacturers Association

- L. WI (CCP) - Certified Compliance Program (CCP); current edition at [www.woodworkinstitute.com/certification](http://www.woodworkinstitute.com/certification).
- M. WI (MCP) - Monitored Compliance Program (MCP); current edition at [www.woodworkinstitute.com/certification](http://www.woodworkinstitute.com/certification).

## PART 2 PRODUCT

### 2.1 INTERIOR DOORS

- A. A hierarchy of door types provides visual indicators of interior wayfinding.
- B. Stained wood veneer solid core doors are to be used for public space types, such as classrooms, offices, labs, meeting rooms, break rooms, restrooms, and corridor separation doors shall be stained wood veneer, solid core doors.
- C. All door products shall be either FSC certified or SFI certified.
- D. Adhesives: Use adhesives that meet the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- E. Composite Wood Products: Products shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- F. Quality Standard: In addition to requirements specified, comply with AWI's, AWMAC's, and WI's "Architectural Woodwork Standards."
- G. Provide AWI Quality Certification Labels indicating that doors comply with requirements of grades specified.
- H. WDMA I.S.1-A Performance Grade: Heavy Duty all locations unless noted otherwise.
- I. WDMA I.S.1-A Performance Grade: Extra Heavy Duty at classrooms.
- J. Fire-Rated Wood Doors: Doors complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252.
- K. Door Constructions;
- L. Structural Composite Lumber: WDMA I.S.10.
  - 1. Screw Withdrawal, Face: 700 lbf (3100 N).
  - 2. Screw Withdrawal, Edge: 400 lbf (1780 N).
- M. Mineral-Core Doors:
  - 1. Core: Noncombustible mineral product complying with requirements of referenced quality standard and testing and inspecting agency for fire-protection rating indicated.
  - 2. Blocking: Provide composite blocking with improved screw-holding capability approved for use in doors of fire-protection ratings indicated as needed to eliminate through-bolting hardware.
- N. Veneers:

1. Grade: As selected by design team.
2. Match between Veneer Leaves: Book match.
3. Assembly of Veneer Leaves on Door Faces: Center-balance match.
4. Pair and Set Match: Provide for doors hung in same opening.
5. Construction: Five plies. Stiles and rails are bonded to core, then entire unit is abrasive planed before veneering.

2.2 FRAMES:

- A. Refer to Section 08 11 13 "Hollow Metal Doors and Frames".

2.3 FINISHES

- A. If only some of the doors are being added or replaced, match the existing wood veneer finish. The approved choices for the wood door veneers per campus are as follows. Designers wishing to use veneers that digress from these approved species must seek prior written approval from the Vice Chancellor of Facilities.

Cañada College	College of San Mateo	Skyline College
Medium tone Honey Birch (e.g., Marshfield Door Systems® Species White Birch, Cut Plain Sliced, Finish Toast 28-95, or equivalent)	Medium tone Honey Birch (e.g., Marshfield Door Systems® Species White Birch, Cut Plain Sliced, Finish Toast 28-95, or equivalent)	Medium tone Honey Birch (e.g., Marshfield Door Systems® Species White Birch, Cut Plain Sliced, Finish Toast 28-95, or equivalent)
Honey toned Maple	Honey toned Maple	Congo Spruce

Wood finishes shall be GREENGUARD certified products.

2.4 APPROVED MANUFACTURERS

- A. List a minimum of 3 manufacturers:
- B. Manufacturers: Subject to compliance with requirements provide products by one of the following Greenguard certified door manufactures -Project Team shall confirm current status:
  1. Graham Wood Doors; an Assa Abloy Group company.
  2. Maiman; an Assa Abloy Group company.
  3. VT Industries, Inc
- C. Other door manufacturers –non Greenguard certified products
  1. Marshfield Door Systems
  2. Oregon Doors

PART 3 EXECUTION

3.1 SUBSTITUTIONS ALLOWED?

Allowed in general however subject to SMCCCD approval

3.2 ASSOCIATED DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS

Access Control & Alarm Monitoring System 28 13 00.

Physical Access Control & Security Management Design Standard

END OF SECTION