Design Guideline 081416
Flush Wood Doors

Scope

For University of Michigan Hospitals and Health Centers projects refer to Design Guideline 080500-H.

In general, follow the guidelines below when specifying wood doors.

Related Sections

U-M Design Guideline Sections:

6.1 – 081113 - Hollow Metal Doors and Frames
6.1 – 088000 - Glazing

Design and Installation Requirements

Design Requirements for Flush Wood Doors

Design

Generally, aesthetic considerations are the prerogative of the architect. Consult with the Design Manager concerning visual effects which do not correspond to general design features stated in this guideline.

Quality Standards

Either AWI or WDMA I.S.1-A should be referenced as the quality standard in the specifications. Reference the latest edition of whichever standard is used.

Construction

In general, manufacturer's standard products are acceptable, provided they comply with the following requirements:

- The University's standard interior wood door is solid core, of flush construction, and Custom grade. Consult with Design Manager before specifying stile and rail doors or other construction grades.
- 5-ply cores shall be provided. Hot ply application for veneers are preferred. If cost considerations are paramount cold ply application will be acceptable. Lifetime warranty against delamination is required. Consult with Design Manager to determine appropriate quality level.
- Preference is for factory fitted doors.

Veneers

Do not specify exotic grades of wood with potentially long lead times and significant upcharges.

Glazing

For fire doors with lites, fire-rated safety glazing is required. Wired glass is prohibited in door applications.

Factory glazing should always be specified for fire-rated openings and non-rated openings.

Finish

Specify factory finishing for transparent finishes. Factory finishing of adjacent wood frames is recommended to maintain a consistent appearance. Opaque finishes may be field painted but should be factory primed. Specify Medium Density Overlay in lieu of wood veneers for opaque finishes.

Fire Doors

Specify prefitting and premachining for fire doors.

Hardware

Factory machine doors for hardware that is not surface applied.

Warranty

Specify a warranty period lasting the life of the door for flush wood interior doors. Do not design doors which will void the warranty because of oversized cutouts or insufficiently sized stiles and rails.