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Finish Carpentry

This document provides design standards only, and is not intended for use, in whole or in part, as a specification. Do not copy this information verbatim in specifications or in notes on drawings. Refer questions and comments regarding the content and use of this document to the Yale University Project Manager.

Contents

- A. Summary
- B. Product Standards
- C. Materials
- D. Installation Guidelines

A. Summary

This section contains general design criteria for finish carpentry. The designer is responsible for specifying and designing details for Yale University's approval.

B. Product Standards

Finish carpentry products must conform to AWI quality standards, custom-grade.

C. Materials

Finish carpentry materials must conform to the following standards.

1. Exterior Finish Carpentry

- a. Trim and boards for transparent finishes must be western red cedar, Grade B and better, number 1 and 2 clear.
- b. Trim and boards for painted finishes must be hardwood suitable for exposure and loading.
- c. Plywood for painted finishes must be APA-rated, exterior, medium-density, overlay plywood.

2. Interior Finish Carpentry

- a. Trim, boards, and plywood for transparent finishes must be hardwood of a species required by the designer, or as required to match existing trim, boards, and plywood. Sequence match veneers for plywood.
- b. Trim and boards for painted finishes must be hardwood suitable for exposure and use.



3. Shelving - General

- a. Shelving must be solid hardwood, plywood with hardwood edge bands, or high-density particleboard, faced on all sides and edges with plastic laminate
- b. Shelving at labs must be epoxy resin.

Material thickness or reinforcement must be appropriate for the shelf loads, with regard to shelf depth and span.

4. Shelving - Yale School of Medicine

- a. Hardware: Provide strong corrosion resistant, sanitary and easy to clean shelf standards and supports, such as Knappe & Voge (KV) 87 Series Wall Standards and 186/187 Series Adjustable Wall Brackets.
- b. Fabrication: Fabricate to AWI Custom Standards.
- c. Shop Finishing:
Transparent Finish: AWI System Number, as indicated. Grade: Custom.
Opaque Finish: AWI System Number, as indicated. Grade: Custom.

5. Wood Treatment

- a. Items in contact with roofing, flashing, waterproofing, masonry, concrete, or the ground must be pressure-treated with a waterborne preservative. The vehicle for the preservative must be compatible with the finish.
- b. Where required by code or local authorities, use ASTM E 84, Class A fire-retardants. The vehicle for the fire-retardant preservative must be compatible with the finish.

D. Installation Guidelines

1. Run trim in single lengths to the extent possible.
2. All carpentry work must be set to required levels and lines, with members plumb, true, and cut to fit.

End of Section



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Architectural Woodwork

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Contents

- A. Summary
- B. Certification Requirements
- C. Shop Drawings
- D. Product Standards
- E. Materials

A. Summary

This section contains design criteria for architectural woodwork, including the installation of shop-fabricated exposed woodwork and casework.

B. Certification Requirements

Manufacturers must be AWI-certified.

C. Shop Drawings

Shop drawings must:

- Indicate the physical dimensions and details or profiles of all elements of the work, including the location of different grades, species, and/or finishes.
- Provide dimensions, details, and specific directions for all blocking required for installation
- Indicate dimensions, details, and specific directions for all cutouts or easements required for equipment, accessories, utilities, or service access.

D. Product Standards

Architectural woodwork products must conform to AWI quality standards, custom- grade, unless otherwise indicated or approved

E. Materials

Architectural woodwork materials must conform to the following standards.



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1. Wood Species

- a. With transparent finishes, use the hardwood species required by the designer or a species that matches the existing hardwood.
- b. With painted finishes, use a closed-grain hardwood suitable for the exposure and loading.
- c. With laminate backings, use at least 45 lb density particleboard.

2. Veneer Matching

Use the veneer required by the designer or a veneer that matches the existing veneer.

3. Plastic Laminate

Use NEMA LD-3, 0.050" thick horizontal-grade plastic laminate at exposed surfaces. Use 0.020" thick horizontal-grade laminate at semi-exposed parts, such as cabinet liners. The designer will select the color, texture, and pattern.

4. Solid Surfacing

Use Dupont[™] Corian[®] solid surfaces or an approved equivalent.

5. Casework and Counters

- a. With transparent, painted, or plastic laminate finishes, use AWI custom-grade wood.
- b. Wood Cabinets – Yale School of Medicine

Grade: Custom

Wood Species for Exposed Surfaces:

Project dependent (for transparent finish).

Any close-grained hardwood listed in reference woodworking standard (for opaque finish).

Grain Matching:

Run and match grain horizontally for drawer fronts, vertically for doors and fixed panels. Matching of Veneer Leaves: Book Match.

Veneer Matching within Panel Face: Running Match.

- c. Laminate Clad Cabinets – Yale School of Medicine

Grade: Custom



Section 064000: Architectural Woodwork

Laminate Grade for Exposed Surfaces:

NEMA LD-3. Provide Grade: GP-50.

Thickness: 0.050", unless otherwise specified. Edges: GP-50 (0.050", nominal thickness).

Laminate Grade for Cabinet Interior Surfaces:

Duralam; melamine 6-10 mil sheet rolled onto luan core plywood.

Provide on all laminate clad casework cabinet interiors.

Laminate Backing Sheet for Non-Visible Surfaces:

LD-3 BK20 Backing Grade:

Undecorated plastic laminate. Provide backing under all counter tops and other non- visible surfaces so that a "balanced construction" between the non-visible and exterior/interior laminate casework exists throughout the casework project.

6. Hardware

a. Hardware – General

Use brass or stainless steel hardware.

b. Hardware - Yale School of Medicine

Anchors:

Interior Masonry Walls:

Appropriately sized fiber/lead solid wall anchor, Rawl or equal. No plastic.

Hollow Wall Anchor:

Appropriately sized wing or metal expansion anchor (toggle or equal).

Drawer Slides:

Premium quality, full extension, ball-bearing, nylon, double-track rated for 100 pound load in normal usage.

Locks:

Where cabinet and drawer locks are required, use Best 5LX Hand, or Best 5E.

Full ball-bearing carriers; zinc-plated steel #992ZC. Manufacturer K&V or equal.

7. Glass, Doors, and Shelves

a. Use tempered safety glass.

b. Shelving - Yale School of Medicine:

Core: 1" high density particle board or 1" plywood.

Finish: Heavy duty plastic laminate finish on all six surfaces. (Self edging materials on edges is acceptable.)



Section 064000: Architectural Woodwork

Span: Shelf standards at 30" o.c. maximum. (Wood blocking should be specified at all locations.)

8. Finishes

- a. For transparent finishes, use:
 - Catalyzed polyurethane
 - AWI finish system TR-6
 - Custom-grade
- b. For opaque finishes, use:
 - Catalyzed vinyl
 - AWI finish system OP-5
 - Custom-grade

9. Fire-Retardant Treatment

Where required by code or local authorities, use ASTM E 84, Class A fire-retardants. The vehicle for the fire-retardant preservative must be compatible with the finish.

End of Section