	Title: YALE OFFICE OF FACILITIES PROCEDURE MANUAL Chapter: 01 - Yale Design Standard Division: 06 00 00 Woods, Plastics, and Composites	Section: <b>06 40 00</b> Requirements for Architectural Woodwork
		Date: November 2023
		Author: Office of Facilities

## **PART 1 - INTRODUCTION**

### 1.1 PURPOSE

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

## **PART 2 - GENERAL DESIGN REQUIREMENTS**

### 2.1 CERTIFICATION REQUIREMENTS

Manufacturers must be AWI-certified.

### 2.2 SHOP DRAWINGS

Shop drawings must:

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


### 2.3 PRODUCT STANDARDS

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

### 2.4 MATERIALS

Architectural woodwork materials must conform to the following standards.

- A. Wood Species
  - 1. With transparent finishes, use the hardwood species required by the designer or a species that matches the existing hardwood.
  - 2. With painted finishes, use a closed-grain hardwood suitable for the exposure and loading.
  - 3. With laminate backings, use at least 45 lb density particleboard.
- B. Veneer Matching Use the veneer required by the designer or a veneer that matches the existing veneer.
- C. Plastic Laminate Use NEMA LD-3, 0.050" thick horizontal-grade plastic laminate at exposed surfaces.

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

D. Solid Surfacing Use Dupont™ Corian® solid surfaces or an approved equivalent.

E. Casework and Counters

1. With transparent, painted, or plastic laminate finishes, use AWI customgrade wood.
2. 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.

3. Laminate Clad Cabinets – Yale School of Medicine

Grade: Custom

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.

F. Hardware

1. Hardware – General

Use brass or stainless-steel hardware.

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## 2. 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.

## G. Glass, Doors, and Shelves

1. Use tempered safety glass.

2. 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.)
- Span: Shelf standards at 30" o.c. maximum. (Wood blocking should be specified at all locations.)


## H. Finishes

1. For transparent finishes, use:

- Catalyzed polyurethane
- AWI finish system TR-6
- Custom-grade

2. For opaque finishes, use:

- Catalyzed vinyl
- AWI finish system OP-5
- Custom-grade

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

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11/28/23	Template update	-	Office of Facilities