

DIVISION 6 - WOOD AND PLASTICS

Section 06402 - Architectural Woodwork / Custom Casework

Introduction

These standards differentiate between Architectural Woodwork/Custom Casework and Laboratory Casework because of the specialized nature and use of the product. Laboratory Casework shall be specified separately in **Division 12 - Furnishings**. The term Woodwork is used throughout this section to refer generically to both woodwork and casework.

Part 1 - General

- Reference the following standards as applicable:
 - AWS, Architectural Woodwork Standards, current edition.
 - ANSI/BHMA A156.9 – Cabinet Hardware.
 - NEMA LD3 – High Pressure Decorative Laminate.
- In most circumstances the requirements of Section 06200 - Finish Carpentry may be combined with this section rather than issuing a separate section.
- Develop specifications for other related materials such as stone or quartz tops, metals, plastics, etc., that might be used in conjunction with woodwork/casework.

Part 2 - Products

- At most locations Architectural Woodwork shall be AWS “Custom” grade. Use AWS “Premium” grade at high profile locations such as reception areas, executive suites, board rooms, museums and libraries. . Architectural Woodwork is also subject to the following additional criteria:
 - No particle board or particle board core plywood may be used in any part of the work, and shall be specifically excluded. .Plywood or high grade medium density NAUF (no added urea formaldehyde) wood fiber board (MDF) may be used for cabinet doors and drawer fronts. Plywood shall be all hardwood veneer core.
 - Wood drawer and door fronts are to be finished with an 1/8” solid wood edge band.
 - Laminate drawer and door fronts to be finished with a 3 mm PVC edge band.
 - High density NAUF (no added urea formaldehyde) wood fiber board may be considered for use in lieu of plywood for laminate tops in dry areas if approved by the Project Manager.
 - Water resistant medium density fiberboard may be considered for damp areas if approved by the Project Manager.
 - Woodwork shall be opaque or transparent finish rotary cut uniform color light birch hardwood (unless otherwise approved by the Project Manager), or plastic laminate; review with UA Project Manager for final selection. Architect shall specify finish and call for sample submittal for review and approval.
 - Doors and drawers with plastic laminate finish shall be fully clad including inside faces of doors .
 - Minimum grades for plastic laminates shall be as follows (NEMA / Inch Thickness): For horizontal surfaces use HGS/.048 or HGL/.039, and for vertical surfaces use VGS/.028.. Comply with International Standards Organization (ISO) 4586.
 - Cold rolled laminate is not permitted.
 - Thermofused high pressure melamine or plywood are allowable for cabinet interiors. For wood, finish interior to match exterior.
 - Plastic laminate tops and back splashes are to be fabricated using 3/4” plywood unless approved otherwise. Edges and joints shall be tight, glued and sealed. Post formed tops and splashes are not allowed. In those areas where sinks are applied to the underside of counter tops, the tops shall be fabricated from 7 ply birch plywood (3/4” minimum) with an “A” surface one side. Do not use water based laminate glues on any counter top.
 - All doors shall be balanced with the same material on the back side of door as is used on the front side.
 - Backer shall be provided on all counters for balance.

- Approved manufacturers of plastic laminate are:
 - Wilsonart
 - Formica
 - Nevamar
 - Pionite

- Approved manufacturers of Solid Surfacing Material Tops are:
 - Corian
 - Formica Solid Surfacing
 - Samsung Staron
 - Avonite
 - LG HiMac

- Hardware shall be indicated in a schedule in this section or in Section 08710, Finish Hardware. If in Section 08710, reference to that section.
 - Drawer glides shall be full extension heavy duty rated.
 - Hinges shall be concealed type full metal with manufacturer's lifetime warranty.
 - Hardware for adjustable shelves on walls shall be Heavy duty KV standard and bracket system, or equal.

- Approved hardware manufacturers are:
 - Pro Mark
 - McKinney
 - Knape and Vogt
 - Blum
 - Stanley
 - Grass America
 - Hafele
 - Salice

Alternate woodwork products could be considered if reviewed with UA Project Manager.

Part 3 - Execution

- Fastening devices and their attachment shall be submitted for approval prior to installation. Drywall screws will not be allowed for the attachment and installation of millwork.

- All concealed surfaces of woodwork/casework shall be treated at the shop with spray or brush application of low emitting clear finish. In the field all concealed scribed and cut surfaces shall receive a brush application of the same material.

- Drawers shall be lock shouldered or multiple dovetailed and have applied fronts. Bodies shall be hardwood or 7 ply plywood. Bottoms shall be hardwood panel product full or stop dadoed. Exposed surfaces shall be hardwood. All drawers shall ride on full suspension drawer glides, not wood keels. As an option, drawers may be 5/8" thermofused high pressure melamine with doweled construction.

- Shelves shall be edged plywood or solid lumber. Janitor and storage room shelving may be "Economy" grade laminate clad MDF. Particle board is not allowed.

- Indicate requirements for utility provisions which must be coordinated by the fabricator.

- Plastic laminate application shall be specified as follows:
 - Apply side edging first, then top surface, with top surface overlapping side edging.
- Installations shall be by skilled tradesmen. In the cases where fabricator and installer are not one and the same, product and project guarantee shall not be compromised.
- Follow manufacturer's instructions for installation of solid surface, taking special care to adhere to recommendations for seams and supports.
- Large woodwork installations shall be certified using WI.
- Acclimate woodwork in climate controlled environment prior to installation, per AWS.

End of Section 06402