

Description:

The purpose of the section is to highlight the current minimum applicable UMD Design Standards requirements required for basic wood carpentry construction, wood truss design/construction and, architectural woodworking methods applicable to both new and renovated buildings and interiors renovations.

Related Sections:

- TBD

Effective Date:

January 1, 2023

Applicable Standards:

- Refer below

General Requirements**Rough Carpentry:**

- Lumber Standards: with PS 1. Comply with PS 20; Plywood standards comply.
- Grading for lumber and plywood shall be marked on each piece with type, grade, mill and grading agency (APA, WWPA, SPIB, etc.).
- Minimum thickness for plywood: Roofing - 5/8", Flooring - 3/4"; Walls -1/2".
- Pressure-treated Wood: Comply with AWWPA Standard C-2 for lumber; C-9 for plywood. Treat with water-borne preservatives per AWPB LP2 for cants, blocking, plates, etc., in connection with roofing and flashing, sills and furring, and other items in contact with masonry or concrete. Kiln-dry after treatment.
- Fire-retardant Wood Where Required: Comply with AWWPA standards with a flame spread rating of 25 or less. Provide UL label for each piece of lumber or plywood.

Wood Trusses:

- "Monoplanar" Trusses: Comply with TPI "Design Specification for Metal Plate Connected Wood Trusses" and N.F.P.A. "National Design Specification for Wood Construction."
- Design must be approved and certified by a structural engineer licensed to practice in Maryland.
- Lumber Standards: Comply with PS 20. All lumber S4S.
- Truss connector plates shall be manufactured by a member of TPI, complying with TPI quality standards. All plates shall be hot-dipped galvanized, designation G60.
- Provide a stress diagram showing design loads or a print-out of computer design.

Architectural Wood Work:

- All custom-made wood and plastic laminate faced casework, counter tops and related mill work items shall comply with AWI "Architectural Wood Work Quality Standards."
- The level of construction (custom, premium, etc.), materials and finishes shall be spelled out for each individual type of item, properly referenced to AWI specifications.
- Completely detailed shop drawings shall be required, along with samples of all finish materials.
- Note, that these items are separate and distinct from "Manufactured Case Work."