

# MIT

# Design Standards

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**DIVISION 06 — Wood, Plastics and Composites**

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Department  
of Facilities

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# **1. 061000 - ROUGH CARPENTRY**

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## **1.1 Project Includes**

Rough carpentry may include the following:

1. Wood grounds, nailers, and blocking.
2. Wood furring.
3. Backing panels at utility closets.

## **1.2 Sustainable Design**

Provide rough carpentry with the following sustainable design features:

1. Recycled content.
2. FSC certified wood.
3. Low VOC adhesives and sealants.
4. No added urea-formaldehyde.

## **1.3 Quality Assurance**

Rough carpentry nailers for roofing shall comply with the securement guidelines in FM Data Sheet 1-49, Perimeter Flashing.

Standards:

1. Lumber Standards and Grade Stamps: PS 20, American Softwood Lumber Standard and inspection agency grade stamps.
2. Construction Panel Standards: PS 1, U.S. Product Standard for Construction and Industrial Plywood; APA PRP 108.
3. Preservative Treatment: AWPA C2 for lumber and AWPA C9 for plywood; waterborne pressure treatment.
4. Fire Retardant Treatment: AWPA C20 for lumber and AWPA C27 for plywood; noncorrosive type.

## **1.4 Products**

Miscellaneous Lumber:

1. Moisture Content: 19 percent.
2. Grade: Standard grade light framing.

Construction Panels:

1. Plywood Backing Panels: APA C D Plugged Exposure 1 with exterior glue, fire retardant treated.

Auxiliary Materials:

1. Framing Anchors and Fasteners: Non corrosive, suitable for load and exposure.

## **2. 061600 - SHEATHING**

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### **2.1 Project Includes**

Exterior sheathing over metal studs at designated exterior wall assemblies.

### **2.2 Sustainable Design**

Provide sheathing with the following sustainable design features:

1. Recycled content, plywood.
2. FSC certified wood.

### **2.3 Products**

Glass-Mat Gypsum Sheathing Board: Non-combustible, ASTM C1177.

1. Thickness: 5/8 inch.

Plywood Sheathing:

1. Wall Sheathing: APA Structural Grade, C-D Plugged Exterior with exterior glue, fire retardant treated.
2. Thickness: 5/8 inch.

Auxiliary Materials:

1. Fasteners: Non corrosive, suitable for load and exposure.

## **3. 062010 - EXTERIOR FINISH CARPENTRY**

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### **3.1 Project Includes**

Exterior standing and running trim and rails.

### **3.2 Sustainable Design**

Provide exterior finish carpentry with the following sustainable design features:

1. Recycled content, plywood.
2. FSC certified wood.

### **3.3 Quality Assurance**

Preservative Treatment: Non-pressure method, exterior type, NWWDA I.S. 4.

Fire Retardant Treatment: AWPA C20 for lumber and AWPA C27 for plywood; non corrosive exterior type.

Synthetic Trim: Not acceptable.

### **3.4 Products**

Exterior Standing and Running Trim and Rails:

1. Wood Species: Western Red Cedar, clear vertical grain; or match existing as indicated.

Auxiliary Materials:

1. Nails: Stainless steel or hot dip galvanized siding nails.
2. Screws and Anchors: Noncorrosive, type required for secure anchorage.

## **4. 064020 - INTERIOR ARCHITECTURAL WOODWORK**

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### **4.1 Project Includes**

Interior architectural woodwork may include the following:

1. Interior standing and running trim and rails, including wood handrails at stairs.
2. Wood casework.
3. Plastic laminate casework.
4. Plastic laminate countertops.
5. Solid surfacing countertops and window sills.
6. Wood paneling and trim.
7. Shelving.

## 4.2 Sustainable Design

Provide interior architectural woodwork with the following sustainable design features:

1. Recycled content.
2. FSC certified wood.
3. Low VOC adhesives and sealants.
4. Low VOC paints and coatings.
5. No added urea-formaldehyde.

## 4.3 Quality Assurance

Standards:

1. Architectural Woodwork Institute (AWI) "Architectural Woodwork Quality Standards" Premium Grade.

## 4.4 Products

Casework for Residences: Refer also to Thematic Folder T15 - Residences, Par. 3.3.

Main Group Buildings Wood Species:

Grade: AWI Custom Grade.

Veneer and Solids: Select White Maple, Quarter Sawn, Grade AA.

Veneer and Solids: American Black Cherry (*Prunus serotina*), Quarter sawn, Grade AA.

Wood Species and Cuts for Transparent Finish: Match building standard where applicable, select for new applications.

Wood Species and Cuts for Opaque Finish:

Poplar or any closed grain hardwood.

Plastic Laminate:

High pressure decorative laminate, NEMA LD 3.

Panel Cores:

Plywood, particleboard or medium density fiberboard (MDF).

Solid Surfacing:

Synthetic surfacing or quartz agglomerate.

Countertops:

1. Plastic laminate clad plywood cores.
2. Solid surfacing materials.
3. Countertop support brackets.

Shelving:

1. Plastic laminate clad plywood cores.
2. Adjustable standards and brackets.

Casework Hardware and Auxiliary Materials:

1. Hardware Standard: ANSI/BHMA A156.9.
2. Hardware Finish and Base Metal: Satin stainless steel.
3. Adhesives and metal fasteners.

Factory Finishing: AWS premium grade finishes.

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