

SECTION 06 10 00  
ROUGH CARPENTRY

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Preservative treated wood materials.
- B. Miscellaneous framing and sheathing.
- C. Communications and electrical room mounting boards.
- D. Concealed wood blocking, nailers, and supports.

**1.2 REFERENCE STANDARDS**

- A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.
- B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2013a.
- C. PS 1 - Structural Plywood; 2009.
- D. PS 20 - American Softwood Lumber Standard; National Institute of Standards and Technology, Department of Commerce; 2010.

**1.3 DELIVERY, STORAGE, AND HANDLING**

- A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

**PART 2 PRODUCTS**

**2.1 GENERAL REQUIREMENTS**

- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
  - 1. Species: Douglas Fir-Larch, unless otherwise indicated.
  - 2. Grading Agency: Any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee ([www.alsc.org](http://www.alsc.org)) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

**2.2 DIMENSION LUMBER FOR CONCEALED APPLICATIONS**

- A. Sizes: Nominal sizes as indicated on drawings, S4S.
- B. Moisture Content: S-dry or MC19.
- C. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
  - 1. Lumber: S4S, No. 2 or Standard Grade.
  - 2. Boards: Standard or No. 3.
- D. Locations include but are not limited to the following:
  - 1. Blocking for in-wall door stops
  - 2. Wall mounted equipment on Teaching Walls
  - 3. Wall mounted cabinets

**2.3 CONSTRUCTION PANELS**

- A. Communications and Electrical Room Mounting Boards: PS 1 A-D plywood, or medium density fiberboard; 3/4 inch thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.

B. Other Applications:

1. Plywood Concealed From View But Located Within Exterior Enclosure:  
PS 1, C-C Plugged or better, Exterior grade.

**2.4 ACCESSORIES**

A. Fasteners and Anchors:

1. Metal and Finish: Hot-dipped galvanized steel per ASTM A 153/A 153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.

B. Die-Stamped Connectors: Hot dipped galvanized steel, sized to suit framing conditions.

**PART 3 EXECUTION**

**3.1 INSTALLATION - GENERAL**

- A. Select material sizes to minimize waste.
- B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.

**3.2 BLOCKING, NAILERS, AND SUPPORTS**

- A. Provide continuous fire-retardant treated  $\frac{3}{4}$ " plywood or OSB continuous lumber blocking at all mounting locations including but not limited to:
  1. Handrails and guardrails
  2. Door stops
  3. Hold opens
  4. Grab bars
  5. Architectural specialties
  6. Plumbing fixtures
  7. Toilet accessories
  8. Luminaires (wall mounted)
  9. Surface mounted devices
  10. Casework and shelving (wall and base cabinets at the top of each unit)
  11. Industrial shelving
  12. Markerboards and tackboards
  13. Projection screens
  14. Wall-mounted door holders (magnetic and mechanical)
  15. Miscellaneous equipment
  16. All other surface-mounted items as required for proper anchorage.

### **3.3 INSTALLATION OF CONSTRUCTION PANELS**

- A. Communications and Electrical Room Mounting Boards: Secure with screws to studs with edges over firm bearing; space fasteners at maximum 24 inches on center on all edges and into studs in field of board.
  - 1. At fire-rated walls, install board over wall board indicated as part of the fire-rated assembly.
  - 2. Where boards are indicated as full floor-to-ceiling height, install with long edge of board parallel to studs.
  - 3. Install adjacent boards without gaps.
  - 4. Size and Location: As indicated on drawings.

### **3.4 TOLERANCES**

- A. Framing Members: 1/4 inch from true position, maximum.
- B. Variation from Plane (Other than Floors): 1/4 inch in 10 feet maximum, and 1/4 inch in 30 feet maximum.

### **3.5 CLEANING**

- A. Waste Disposal: Comply with the requirements of Section 01 7419.
  - 1. Comply with applicable regulations.
  - 2. Do not burn scrap on project site.
- B. Do not leave any wood, shavings, sawdust, etc. on the ground or buried in fill.
- C. Prevent sawdust and wood shavings from entering the storm drainage system.

END OF SECTION 06 10 00

**SECTION 06 61 16**  
**SOLID SURFACING FABRICATIONS**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Solid surfacing for countertops.

**1.2 RELATED REQUIREMENTS**

- A. ASTM D 256-18 "Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics".
- B. ASTM D570-18 "Standard Test Method for Water Absorption of Plastics"
- C. ASTM D638-14 "Standard Test Method for Tensile Properties of Plastics"
- D. ASTM D696-16 "Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30 degrees C and 30 degrees C with a Vitreous Silica Dilatometer"
- E. ASTM D790-17 "Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials"
- F. ASTM D1499-13 "Standard Practice for Operating Light- and Water-Exposure Apparatus (Carbon-Arc Type) for Exposure of Plastics"
- G. ASTM D5420-16 "Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact) "
- H. ASTM E84-20 "Standard Test Method for Surface Burning Characteristics of Building Materials"
- J. ASTM G21-15 "Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi".

**1.3 SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide catalog data for all solid surfacing materials and countertop setting and grouting materials..
- C. Shop Drawings: Indicate overall layout of countertop work. Type, thickness, and details of countertop materials and components. Joints, attachment and anchoring of components..
- D. Samples: Submit 3 sets of samples not less than, 12x12 inch in size, illustrating each different color and finish of solid surfacing required. Include in each set the full range of exposed color and texture to be expected in the completed work. Review will be for color and texture only.

#### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in performing the work of this section with minimum 5 years of experience
- B. Solid Polymer Material: Homogeneous filled acrylic meeting ANSI Z124.3 and Z124.6, Type Six, and FS WW-P-541E/GEN (1); not coated, laminated, or of composite construction.
- C. Surface Burning Characteristics: Flame spread index of 25, smoke developed index of 30; when tested in accordance with ASTM E 84 (Class I).
- D. Countertops: Horizontal surfaces of solid polymer material, minimum 1/2-inch (3 cm) with built-up edge to 1-3/4-inch thickness; adhesively joined with inconspicuous seams.
- F. Finish: Uniform on all surfaces.
  - a. Matte: Gloss rating of 5-20.

#### 1.5 FIELD CONDITIONS

- A. Ambient Conditions: Maintain ambient temperature at 50-95 degrees F for 48 hours before during and after installation of solid surfaces.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. "Hi-Macs" as manufactured by LG Hausys: [www.lghimacusa.com](http://www.lghimacusa.com)
- B. Avonite Surfaces: [www.avonitesurfaces.com](http://www.avonitesurfaces.com)
- C. DuPont Corp. [www.corian.com](http://www.corian.com)
- D. Formica Solid Surfacing: [www.formica.com](http://www.formica.com)

#### 2.2 COLOR

- A. Basis of Design is '**Claim Shell**' by Corian® surfaces from the DuPont company or approved equal

#### 2.3 ACCESSORIES

- A. Adhesive: Manufacturer's standard one- or two-part adhesive kit to create inconspicuous, nonporous joints.
- B. Sealant: Manufacturer's standard mildew-resistant, FDA-compliant, NSF 51-compliant (food zone – any type), UL-listed silicone sealant in colors matching components

**PART 3 EXECUTION**

**3.1 EXAMINATION**

- A. Examine substrates and conditions, with fabricator present for compliance with requirements for installation tolerances and other conditions affecting performance of work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

**3.2 INSTALLATION**

- A. Install components plumb, level and rigid, scribed to adjacent finishes, in accordance with approved shop drawings and product data.
  - 1. Provide product in the largest pieces available.
  - 2. Form field joints using manufacturer's recommended adhesive, with joints inconspicuous in finished work.
    - a. Exposed joints/seams shall not be allowed.
  - 3. Reinforce field joints with solid surface strips extending a minimum of 1 inch on either side of the seam with the strip being the same thickness as the top.
  - 4. Cut and finish component edges with clean, sharp returns.
  - 5. Rout radii and contours to template.
  - 6. Anchor securely to base cabinets or other supports.
  - 7. Align adjacent countertops and form seams to comply with manufacturer's written recommendations using adhesive in color to match countertop.
  - 8. Carefully dress joints smooth, remove surface scratches and clean entire surface.
  - 9. Install countertops with no more than 1/8-inch (3 mm) sag, bow or other variation from a straight line.
- B. Coved backsplashes and applied sidesplashes:
  - 1. Install applied sidesplashes using manufacturer's standard color-matched silicone sealant.
  - 2. Adhere applied sidesplashes to countertops using manufacturer's standard color-matched silicone sealant.

**3.3 REPAIR**

- A. Repair or replace damaged work which cannot be repaired to architect's satisfaction

**3.4 CLEANING**

- A. Keep components clean during installation.
- B. Remove adhesives, sealants and other stains.

**3.5 PROTECTION**

- A. Protect installed solid surfaces from subsequent construction operations.

**END OF SECTION 06 61 16**