

## **SECTION 06 10 53**

### **CARPENTRY**

#### **PART 1: GENERAL**

##### **1.01 RELATED DOCUMENTS**

- A. Drawings, Details of Construction and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification Sections, apply to work specified in this section.

##### **1.02 SUMMARY**

A. Section includes:

1. Miscellaneous blocking, sleepers and nailers, shown on Drawings or required.
2. Preservative-treated blocking/sill sealer for anchorage of storefront and entrances.
3. Blocking within gypsum wallboard partitions for support of markerboards, grab bars, toilet accessories, casework, hardware, other wall mounted specialties.

B. Related work specified in other sections:

1. Concrete Formwork - Section 03 30 13
2. Insulation - Section 07 21 00

##### **1.03 QUALITY ASSURANCE**

- A. Lumber Grades: Western Wood Products Association "Product Use Manual".
- B. Preservative Treated Lumber: American Wood Preservers Bureau, "LP-2 Pressure Treated with Water-Borne Preservatives".

##### **1.04 SUBMITTALS**

A. Submit in accordance with Section 01 33 00.

1. Furnish certificates for preservative treated lumber.
2. Submit roofing material manufacturer's current printed instructions for installation of nailers.

##### **1.05 PRODUCT DELIVERY, STORAGE AND HANDLING**

- A. Immediately upon delivery to job site, place materials in area protected from weather.
- B. Store materials a minimum of 6 in. above ground on framework or blocking and cover with protective waterproof covering providing for adequate air circulation or ventilation.
- C. Do not store seasoned material in wet or damp portions of building.
- D. While unloading, protect sheet materials from corners breaking and damaging surfaces.

## **1.06 COORDINATION**

- A. Coordinate blocking for storefront and entrances with Section 08 40 00.
- B. Coordinate blocking for miscellaneous specialties with Division 10 suppliers.
- C. Obtain product data, sizes and anchorage requirements prior to installation of blocking.

## **PART 2: PRODUCTS**

### **2.01 ROUGH HARDWARE**

- A. Nails, spikes, screws, bolts and similar items of size and types to rigidly secure members in place or as otherwise indicated.
- B. Non-corrosive type fasteners for redwood and preservative treated and fire retardant lumber such as stainless steel or double dipped galvanized.
- C. Sill Sealer: Closed-cell plastic foam, 1/4" thick, selected from manufacturers' standard widths to suit width of sill members indicated.

### **2.02 LUMBER**

- A. Framing, blocking lumber: No. 2 or better, S4S, Douglas Fir-Larch, Hem-Fir or Southern Pine, moisture content not to exceed 19%.
  - 1. Provide preservative-treated lumber for work exposed to moisture or indirect contact with concrete slabs. Preservative-treated lumber is not required for roof blocking.
  - 2. Provide fire-retardant lumber for all interior framing and blocking. Blocking for handrails, millwork, cabinets, window and door frames do not require fire-retardant lumber in Type I and Type II construction.

### **2.03 PLYWOOD**

- A. Meet APA C-D exterior, thickness as shown on Drawings.
- B. Provide preservative-treated plywood when exposed to moisture, and as shown on Drawings.
- C. Interior Finish Plywood: Paint grade birch.

## **PART 3: EXECUTION**

### **3.01 ROUGH CARPENTRY**

- A. Provide wood nailers of size, shape where indicated, required.
- B. Fasten securely to substrate with appropriate fasteners. Use expansion-type anchors at masonry or concrete, self-tapping screws at steel.
- C. Install blocking for storefront and entrances according to approved Shop Drawings. Blocking shall be continuous the width or height of rough openings, unless otherwise shown on Drawings. Install sill sealer under windowsill blocking as detailed

**END OF SECTION 06 10 53**

## **SECTION 06 65 10**

### **SOLID SURFACE FABRICATIONS**

#### **PART 1: GENERAL**

##### **1.01 RELATED DOCUMENTS**

- A. Drawings, Details of Construction and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification Sections, apply to work specified in this section.

##### **1.02 SUMMARY**

- A. Section includes: Labor, materials, equipment and accessories to provide the following:

1. Solid surface bench in Swimming Pool.

- B. Related work specified in other sections:

1. Wood Blocking - Section 06 10 53.
2. Tile - Section 09 30 00.

##### **1.03 SUBMITTALS**

- A. Submit in accordance with Section 01 33 00.

1. Shop Drawings: Drawings shall indicate sizes, color, details of fabrications, cutouts for mech/elec, furring and blocking required, and installation instructions.
2. Product Data: Submit manufacturer's product data indicating compliance with specifications and maintenance, repair and cleaning recommendations.
  - a. Include maintenance kit for each color/finish.
3. Samples: Submit 12" x 12" x 1/2" material samples for color selection.
4. Manufacturer's qualification certification of installer.

##### **1.04 QUALITY ASSURANCE**

- A. Fabricator/installer qualifications:

1. Work of this section shall be by a certified fabricator/installer, certified in writing by the manufacturer.

##### **1.06 DELIVERY, STORAGE AND HANDLING**

- A. Delivery: Do not deliver product to site before product is to be installed. Product shall be delivered in protective wrapping. Wrapping shall remain in place until product is ready to be installed.

## PART 2: PRODUCTS

### 2.01 MANUFACTURERS

- A. Acceptable Manufacturers: DuPont Company, Wilmington, DE, CORIAN Building Products or other manufacturers who meet specification.

### 2.02 MATERIALS

A. Solid polymer components

1. Cast, nonporous, filled polymer, not coated, laminated or of composite construction with through body colors meetings ANSI Z124.3 or ANSI Z124.6, having minimum physical and performance properties specified.
2. Superficial damage to a depth or 0.010 inch shall be repairable by sanding and/or polishing.

B. Thickness:

1. Horizontal solid surface bench surface: ½", laminated to ½" treated plywood.

C. Edge treatment: As detailed.

D. Performance Characteristics:

<u>Property</u>	<u>Typical Result</u>	<u>Test</u>
1. Tensile Strength	6,000 psi	ASTM D 638
2. Tensile Modulus	$1.5 \times 10^{-6}$ psi	ASTM D 638
3. Tensile Elongation	0.4% min.	ASTM D 638
4. Flexural Strength	10,000 psi	ASTM D 790
5. Flexural Modulus	$1.2 \times 10^{-6}$ psi	ASTM D 790
6. Hardness	>85	Rockwell "M" Scale
	56	ASTM D 785
		Barcol Impressor
		ASTM D 2583
7. Thermal Expansion	$1.80 \times 10^{-5}$ in./in./°F	ASTM D 696
8. Gloss (60° Gardner)	5-75 (matte-highly polished)	ANSI Z124
9. Light Resistance	(Xenon Arc) No effect	NEMA LD 3-2000
		Method 3.3
10. Wear and Cleanability	Passes	ANSI Z124.3 & Z124.6
11. Stain Resistance: Sheets	Passes	ANSI Z124.3 & Z124.6
12. Fungus and Bacteria Resistance	Does not support microbial growth	ASTM G21 & G22
13. Boiling Water Resistance	No visible change	NEMA LD 3-2000
		Method 3.5
14. High Temperature Resistance	No change	NEMA LD 3-2000
		Method 3.6
15. Izod Impact (Notched Specimen)	0.28 ft.-lbs./in. of notch	ASTM D 256 (Method A)
16. Ball Impact Resistance: Sheets	No fracture-½ lb. ball: ¼" slab-36" drop ½" slab-144" drop	NEMA LD 3-2000 Method 3.8
17. Weatherability	$\Delta E_{94} < 5$ in 1,000 hrs.	ASTM G 155
18. Specific Gravity (Approximate weight per square foot: ¼" 2.2 lbs., ½" 4.4 lbs.)	1.7	
19. Water Absorption	Long-term 0.4% (3/4")	ASTM D 570

		0.6% (1/2")	
		0.8% (1/4")	
20.	Toxicity	99 (solid colors)	Pittsburgh Protocol
		66 (patterned colors)	Test ("LC50" Test)
21.	Flammability	All colors	ASTM E 84, NFPA 255 &
		(Class I and Class A)	UL 723
22.	Flame Spread Index	<25	
23.	Smoke Developed Index	<25	

E. Joint adhesive:

1. Manufacturer's standard one- or two-part adhesive kit to create inconspicuous, nonporous joints.

F. Panel adhesive:

1. Manufacturer's standard neoprene-based panel adhesive complying with ANSI A136.1-1967, UL listed.

G. Sealant:

1. Manufacturer's standard mildew-resistant, FDA-compliant, NSF 51-compliant (food zone – any type), UL-listed silicone sealant in colors matching components.

## 2.03 FACTORY FABRICATION

A. Shop assembly:

1. Fabricate components to greatest extent practical to sizes and shapes indicated, in accordance with approved shop drawings and manufacturer's printed instructions and technical bulletins.
2. Form joints between components using manufacturer's standard joint adhesive without conspicuous joints.
3. Provide factory cutouts for plumbing fittings and bath accessories as indicated on the drawings.
4. Rout and finish component edges with clean, sharp returns.
  - a. Rout cutouts, radii and contours to template.
  - b. Smooth edges.
  - c. Repair or reject defective and inaccurate work.

## 2.04 FINISHES

- A. Colors: See Material Finish/Color Schedule, on Architectural Drawings.
- B. Finish: Provide surfaces with a uniform matte finish; gloss range of 5-20.

## PART 3: EXECUTION

### 3.01 EXAMINATION

- A. Verification of Conditions: Verify that surfaces and supports to receive cast plastic material as suitable for installation in accordance with Shop Drawings. Beginning of installation shall indicate acceptance of conditions.

### **3.02 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.

### **3.03 REPAIR**

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

### **3.04 CLEANING AND PROTECTION**

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

**END OF SECTION 06 65 10**