

SECTION 06 06 20
DECORATIVE PLASTIC LAMINATE
(SOLID PHENOLIC)

PART 1 GENERAL

1.01 SUMMARY

- A. General provisions and requirements of the contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to this section.
- B. Section Includes:
 - 1. Solid phenolic (Wall cladding) surfacing for finishing (casework) (millwork) (chemical resistant decorative laminate) cubicle panels, walls and toilet partition panels

1.02 RELATED WORK

- A. Work related to this section includes:
 - 1. Division 6 Section: Wood Plastics and Components (Interior Architectural Woodwork).
 - 2. Division 10 Section: Interior Specialties (Toilet Partitions).
 - 3. Division 12 Section: Furnishings (Institutional Casework), (Residential Casework), (Laboratory Casework).

1.03 REFERENCES

- A. ASTM:
 - 1. NEMA - National Electrical Manufacturer Association
 - 2. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 3. ASTM E162 Surface Flammability and 662 Rate of Smoke Generation
 - 4. ASTM D790 Flexural Strength, Flexural Modulus
 - 5. ASTM D638 Tensile Strength

1.04 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide panels that have been manufactured, fabricated and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.

1.05 SUBMITTALS

- A. Product Data: Submit product data, including manufacturer's technical data sheet, for specified products.
- B. Shop Drawings: Submit shop drawings showing layout, profiles and product components, including edge conditions, panel joints, accessories, designs and textures.
- C. Samples:
 - 1. Submit selection and verification samples for product type, designs and textures.
- D. Quality Assurance Submittals:
 - 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties if required
 - 2. Manufacturer's technical data sheet.

1.06 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Manufacturer Qualifications: Manufacturer producing product in ISO 9001 certified facility.
 - 2. Fabricator/Installer must be experienced in performing work of similar type and scope.

B. Mock-Ups:

1. Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, texture, pattern and workmanship standards. Comply with Division 1 Quality Control (Mock-Up Requirements) Section.
2. Mock-Up Size: (Specify mock-up size.).
3. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
4. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.

1.07 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirements Sections.
- B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- C. Storage and Protection: Store materials protected from exposure to harmful weather conditions, at temperature and humidity conditions recommended by manufacturer.

1.08 PROJECT CONDITIONS

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1.09 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: See manufacturer's technical data sheet for warranty information.

PART 2 PRODUCTS

2.01 SOLID PHENOLIC PANELS

2.02 MANUFACTURER

- A. Manufacturer: Wilsonart® International
- B. Wilsonart International, 2400 Wilson Place Temple, Texas 76503-6110, Phone: 254.207.7000: 800.433.3222, Fax: 254.207.2384, Web Site www.wilsonart.com

2.03 WALL, CEILING AND FREE STANDING PANELS

A. Proprietary Product(s):

1. Classic Grade.

- a. Panel Thickness: 1/10", 1/8", 1/4", 5/16", 3/8", 1/2", 3/4", 1".
- b. Panel Descriptions: **514** (0.10") - Color 2 sides, **117** (0.118") Color 1 side w/ sanded back, **515** (0.125") - Color 2 sides, **569** (0.25") - Color 2 sides, **571** (0.3125") - Color 2 sides, **572** (0.38") - Color 2 sides **568** (0.50") - Color 2 sides, **575** (0.75") - Color 2 sides, **590** (1.0") - Color 2 sides. Panel Core: Product 117 is standard with brown core. All other products are produced with standard black core
- c. Panel Sizes:
 - 1) Standard - 4' x 8', , 5' x 10', and 5' x 12'
 - 2) Optional - 4' x 10' and 5' x 8'

2. Laboratory Grade

- a. Panel Thickness: 1/4", 5/16", 3/8", 1/2", 3/4", 1" inch.
- b. Panel Descriptions: **569-95** (0.25") - Color 2 sides, **571 -95** (0.3125") - Color 2 sides, **572-95** (0.38") - Color 2 sides **568-95** (0.50") - Color 2 sides, **575-95** (0.75") - Color 2 sides, **590-95** (1.0") - Color 2 sides. All products are produced with standard black core
- c. Panel Standard Sizes:
 - 1) Standard - 4' x 8', , 5' x 10', and 5' x 12'
 - 2) Optional - 4' x 10' and 5' x 8'

3. Fire Rated Grade
 - a. Panel Thickness: 1/4", 3/8", 1/2", 3/4", 1".
 - b. Panel Descriptions: **669** (0.25") - Color 2 sides, **671** (0.3125") - Color 2 sides, **672** (0.38") - Color 2 sides, **668** (0.50") - Color 2 sides, **675** (0.75") - Color 2 sides, **690** (1.0") - Color 2 sides, All products are produced with standard black core
 - c. Panel Standard Sizes:
 - 1) Standard - 4' x 8', , 5' x 10', and 5' x 12'
 - 2) Optional - 4' x 10' and 5' x 8'
 - d. Fire Performance: ASTM E84 Flame Spread Index (Type I, Class A):
 - e. Water Absorption: EN 438-2 Less than 1.0%.
 - f. Porosity: Nonporous surface and edges.
 - g. Cleanability: Easily cleaned.

2.04 DESIGN AND SURFACE FINISHES

- A. Design:
 1. Wilsonart Designs: available in over 200 Wilsonart options. (See list in the color brochure)
- B. Finish Texture:
 1. Matt finish (60) – Gloss Level = 10+/- 2

2.05 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

2.06 ACCESSORIES

- A. Adhesive for bonding Plastic Laminate (Product 117 – PVA Urea Formaldehyde, resorcinol) Edge treatment on drop edge – 2 part urethane Ashland Chemical 7779L)

2.07 FABRICATION

- A. Fabricate solid phenolic wall panels and accessory items in accordance with manufacturer's recommendations and approved submittals.
- B. Fabricate panels to profile indicated or in accordance with manufacture recommendations.

PART 3 EXECUTION

3.01 EXAMINATION AND PREPARATION

- A. Examine surfaces for conditions that would adversely affect the performance of the decorative or edge performance.

3.02 INSTALLATION

- A. Install solid phenolic wall panels level and accurately spaced in accordance with manufacturer's recommendations and approved submittals.
- B. Fasten solid phenolic wall panels to supporting substrate with fasteners [And adhesive] approved for use with adjoining construction.

3.03 CLEANING AND PROTECTION

- A. Clean decorative plastic laminate in accordance with manufacturer's cleaning and maintenance instructions.
- B. Protect installed product and finish surfaces from damage during construction.

END OF SECTION