

SECTION 09 78 23
PHENOLIC INTERIOR WALL PANELING

This specification includes hidden text for editing for a project.

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Phenolic interior wall paneling.
 - 2. Accessories.

1.2 RELATED SECTIONS

- A. Division 01: Administrative, procedural and temporary work requirements.
- B. **[Section 06 10 00 - Rough Carpentry]**
- C. **[Section 06 20 00 – Finish Carpentry]**
- D. **[Section 00 00 00 - _____]**

1.3 REFERENCES

- A. American Society for Testing and Materials (www.ASTM.org)
 - 1. E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 2. E2768 – Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials (30 min Tunnel Test)

1.4 ACTION SUBMITTALS

- A. Shop Drawings: Include size, panel layout, trim, accessories, supports and attachments.
- B. Product Data: Technical data, physical properties and installation instructions for each component.
- C. Samples: Submit manufacturers finished samples **[3-inch x 3-inch showing available colors] [12-inch x 12-inch in specified color]**
- D. Warranty:
 - 1. Manufacturers warranty certificate.
 - 2. Installers written warranty statement.

1.5 INFORMATIONAL SUBMITTALS

- A. Installer: Installation experience statement.
- B. Testing and Evaluation Reports: Independent testing laboratory for the following for ASTM E84.
- C. **[Sustainable Design Submittals:]**
 - [1. FSC®(FSC-C115183) Certified Wood]**

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 1. Minimum of **[10] [30]** years successful experience producing phenolic materials.
 2. **[Produce FSC®(FSC-C115183) certified materials]**
 3. Domestic factory assembly, shop fabrication and pre-finishing
- B. Installer Qualifications: Minimum 2-years documented installation experience of specified materials.
- C. Single Source Responsibility: Source from a single manufacturer for all components.
- D. Flame spread/ smoke development rating: Class **[A] [B]** tested to ASTM E84, Type V Construction.
- E. **[Surface Burning: Max flame front of 10 foot, when tested to ASTM E2768.]**
- D. Pre-Installation Conference: Convene to review the following:
 1. Areas of installation.
 2. Framing and rough carpentry.
 3. Connections to adjacent surfaces and transitions.
 4. Structural requirements and anchoring locations.
- E. Mock-Up:
 1. Full-size **[8-foot x 8-foot]** mock up erected at site, to verify color, workmanship and installation details.
 2. Complete assembly, color, sheen and model.

1.7 FIELD CONDITIONS

- A. Weatherproof building and maintain temperature and humidity levels in accordance with manufacturers recommendations.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle materials following manufacturer instructions.
- B. Immediately upon delivery notify manufacturer of damaged or defective materials for replacement.
 1. Verify manufactures labels meet approved product name, color, texture and finish.
- C. Store factory sealed materials indoors, above grade and protected from sun, weather and materials that could cause staining or discoloration of finish.
 1. Maintain relative humidity levels of 35 to 65-percent during installation.

1.9 WARRANTY

- A. Manufacturer to warrant material defects, manufacturing tolerances and finish of material for a period of 10-years.
- B. Installer to warrant installation defects for a period of **[2] [4]** years. Repair or replace materials during warranty period at no cost to Owner.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design: Fiberresin Industries, Inc. N48W37031 E. Wisconsin Avenue, Oconomowoc, WI Toll Free: (262) 567- 4427 www.stonewoodpanels.com; email: info@fiberresin.com
- B. Substitutions: Not permitted. **[Approved Equal]**

2.2 MATERIALS

A. Phenolic Interior Wall Cladding: Solid phenolic laminate panel with clear abrasion resistant overlay.

1. Style: **[Add style]**
2. Color: **[Add color]**
3. Finish: Factory #60 matte
4. Panel Weights: **[48 inches x 96 inches] [custom sizing – Contact manufacturer]**
5. Thickness: **[1/8] [3/16] [1/4] [5/16] [3/8] [1/2]** inch
6. Panel Core: Phenolic resin treated layer, black and natural brown kraft paper
7. Decorative Layer: Melamine resin, proprietary pigment and treated process.
8. Abrasion Resistance: Applied to protect decorative wood grain panels from abrasions.
9. ASTM E84 Flame and Smoke Development: **[Class A] [Class B]**

B. Physical Properties

1. Chemical Resistance Testing
 - a. SEFA 8-PH, Section 8.1: Pass Testing/ SEFA 8 Compliant

2.3 FABRICATION

A. Fabrication Tolerances:

1. NEMA Testing Results
 - a. Dimensional Change, 3.11 test
 - 1) Length (Machine Direction): 0.25 percent
 - 2) Width (Cross Direction): 0.50 percent

2.4 ACCESSORIES

- A. Fasteners: Manufacturer approved austenitic stainless steel fastener with bi-metal welded carbon steel point.
1. **[Concealed fasteners]**
 2. **[Exposed fasteners, [standard stainless steel] [paint color _____] finish]**
- B. Attachment System: Manufacturer approved sub-frame system to support cladding weights of up to 8 pounds per square foot, fabricated of 0.09-inch 6063 T5 extruded aluminum or 16-gage G90 Galvanized steel.
- C. Corner Profile: **[Extrusion] [Reveal] [Overlap]** at corners.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine materials, installation instructions, and review manufacturers instructions on site.
- B. Verify panel style, color, and fasteners are approved by Architect.
- C. Verify substrates and adjacent surfaces are level and plumb for installation.
1. Do not begin work until construction has progressed to allow installation of materials.
 2. Verify manufacturers fastener spacing requirements.
- D. Allow panels to acclimate to interior conditions for a minimum of 24 hours.
- E. Proceed with work when construction has progressed to allow a warranted installation.
1. Installation deems acceptance of work for a warranted installation.

3.2 INSTALLATION

- A. Install in accordance with manufacturers written instructions and Shop Drawings, maintaining ventilation spacing requirement.
- B. Fasten panels to an approved attachment system structurally supported by aluminum, galvanized steel or wood stud supported wall.
- C. Install panel square, edges clean and true to size.
 - 1. Cut panels to fit at perimeter and around penetrations with minimum 1/4-inch gap.
- D. Do not install damaged, irregular or defective panels.

3.3 FIELD QUALITY CONTROL

- A. Inspect panel ventilation at top and bottom of wall, and manufacturers installation instructions have been followed.
- B. Verify installation, fasteners and connections with adjacent materials, and transitions have been completed in accordance with shop drawings.

3.4 ADJUSTING

- A. Modify, adjust and replace panels not within manufacturers tolerances and as required by Architect.

3.5 PROTECTION

- A. Protect surface, corners and components from damage prior to Owner occupancy using temporary protection.

END OF SECTION