

SECTION 09772

SOLID PHENOLIC WALL CLADDING PANELS

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Solid phenolic wall cladding for interior use.

1.02 RELATED SECTIONS

- A. Documents affecting work in this section includes but is not limited to the General Conditions, Supplementary Conditions and Sections in Division 1 – General Requirements of these Specifications.
- B. 06200 - Finish Carpentry.

1.03 SUBMITTALS

- A. Submit in accordance with Section 01300.
- B. Submit four samples, 4"x 4", of each color and thickness of material used.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Deliver and store materials in the manufacturer's original protective packaging. Store materials in an enclosed shelter providing protection from damage and exposure to the elements.

1.05 COORDINATION

- A. Field Measurements by others: Secure field measurements before preparation of shop drawings and fabrication where possible, for proper and adequate fabrication and installation of the work.
- B. Coordination by others: Furnish anchorage and top connection devices or material as specified.

1.06 WARRANTY

- A. Wall panel to be warranted against delaminating for 10 years. The factory authorized fabricator; product installer and material manufacturer must sign the Warranty documents and submit a copy to the Contractor.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. These specifications are based on solid phenolic panels for interior applications as manufactured by Trespa® North America, Ltd.

2.02 MATERIALS

- A.** Basis of design: Fixing methods (in accordance to manufacturer's recommendations), color, and texture to be specified by architect.
- B.** Thickness: As specified on drawings or by Architect.
- C.** Color: to be selected by Architect from Manufacturer's standard color pallet.

2.03 FABRICATION

- A.** Authorized material supply and fabrication by:

Spec-Rite Designs, LLC
1054 Central Industrial Drive
St. Louis, MO 63110
Phone: 314-633-4978 Fax: 314-771-4597

- B.** Manufacturer qualifications: 10 years or more experience in fabrication of solid phenolic materials.
- C.** Panels to have smooth finished edge without sharp and chipped edges. There is no requirement to edge band, treat or encapsulate the edges because of the closed impact-resistant edges.

2.04 SOURCE QUALITY CONTROL

- A.** Panels shall be of material specifically designed for wall cladding. Fabricated panels shall comply with all current codes and regulations. Panels shall have uniform thickness (+0.03") and flatness (maximum difference of 0.03") for 10-foot span.
- B.** Panels to be U.L. registered and labeled for quality consistency.
- C.** Performance requirements:
 - 1.** Modulus of elasticity: 1,500,000-psi minimum.
 - 2.** Shear strength: 2000-psi minimum.
 - 3.** Compressive strength: 24,000-psi minimum.
 - 4.** Weight: 93 lbs. per cubic foot maximum.
 - 5.** Non-porous surface and edges.

6. Will not support micro-organic growth.

PART 3 – EXECUTION

3.01 INSTALLATION

A. Wall panels to be fitted to wall as suspended cladding element and adhered to the wall with a set screw and a silicone adhesive (i.e. Dow Coring 995) on the back of panel.

B. Blind fixing with adhesive: Trespa, wood or aluminum battens should be fixed to the wall. Wood vertical battens should be: end battens 1-3/4" x1-1/8", center battens 2-3/16" x 1-1/8", and center battens next to joint 3-3/8" X 1-1/8". Metal or Trespa battens, at a minimum, should be: end battens 1-3/4" x1/16", center battens 2-3/16" x 1/16", and center battens next to joint 3-3/8" X 1/16". A _" x _" silicone bead must be applied to the batten for adhesion to the suspended cladding element.

C. Joints between panels should be left free both for vertical and horizontal connections in such a way that the panel can move 2.5mm/m maximum. Joint sealing using sealants (i.e. Dow Coring 786) can be used for vertical joints. For elastic joint sealing: joint must be dry and free of grease, the sealing material must not adhere to the reverse side (adhesion on three sides), the joint that the sealant is applied must be sufficiently wide and the depth of the joint should not be greater than the width of the joint.

3.02 PROTECTION

A. After installation, the General Contractor shall protect the panels from damage. The panels shall be kept free from paint, plaster, cement scratches, or any other destructive forces.

3.03 CLEANING

A. Panels to be cleaned with standard cleaning solution. Mild solvents may be used to remove stubborn marks and dirt.

END OF SECTION