

SECTION 06 6650
TRANSLUCENT RESIN PANELS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Translucent Resin Panels.
- B. Accessories

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data; include product description, fabrication information, and compliance with specified performance requirements.
- B. Shop Drawings: Include plans, elevations, sections, panel dimensions, details, and attachments to other work.
- C. Samples: Submit two samples 6 inch x 6 inch illustrating composition, color and finishes.
- D. Color Chart: Illustrating manufacturers full range of colors, patterns and finishes.

1.3 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than five years of documented experience.
- B. Installer Qualifications: Company specializing in installing products specified in this section, with not less than five years of documented experience.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver resin panels, systems and specified items in manufacturer's standard protective packaging.
- B. Do not deliver resin panels, system, components and accessories to Project site until areas are ready for installation.
- C. Store materials in a flat orientation in a dry place that is not exposed to exterior elements.
- D. Handle materials to prevent damage to finished surfaces. Provide protective coverings to prevent damage or staining following installation for duration of project.
- E. Before installing Plastic Fabrications, permit them to reach room temperature.

1.5 PROJECT CONDITIONS

- A. Do not install materials until spaces are enclosed and weatherproof, and ambient temperatures and humidity conditions are maintained.

PART 2 PRODUCTS

2.1 TRANSLUCENT RESIN PANELS - BASIS FOR DESIGN - 3FORM

- A. Description:
 - 1. Rate of Burning (ASTM D 635). Material must attain CC2 Rating for a nominal thickness of 1.5 mm (0.060 in.) and greater.
 - 2. Self-Ignition Temperature (ASTM D 1929). Material must have a Self-ignition temperature greater than 850°F.
 - 3. Density of Smoke (ASTM D 2843). Material must have a smoke density less than 10%.

- B. Type: Engineered acrylic resin.
- C. Sheet Size: Maximum 4' x 10'
- D. Thickness: 1/4"
- E. Color/Pattern: As selected by Architect from manufacturers full range.
- A. Machining: Acceptable means of machining are listed below. Ensure that material is not chipped or warped by machining operations.
- B. Forming: Form products to shapes indicated using the appropriate method listed below. Comply with manufacturer's written instructions.
 - 1. Cold Bending
 - 2. Hot Bending
 - 3. Thermoforming: Acceptable only on uncoated material.
 - 4. Drape Forming
 - 5. Matched Mold Forming
 - 6. Mechanical Forming
- C. Laminating: Laminate to substrates indicated using adhesives and techniques recommended by manufacturer.

2.2 ACCESSORIES

- A. Aluminum Railing: Basis for Design - Crystalline
 - 1. Type: Small top rail with 2 1/2" Post
 - 2. End caps: To match profile of top rail.
 - 3. Panel Clips: Four per panel, type as recommended by manufacturer.
 - 4. Base mounts: As recommended by manufacturer.
 - 5. Finish: As selected by Architect from manufacturers full range.
- B. Fasteners: Use screws designed specifically for plastics. Provide threaded metal inserts for applications requiring frequent disassembly such as light fixtures.
- C. Bonding Cements: May be achieved with solvents or adhesives, suitable for use with product and application.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that substrates and conditions are satisfactory for installation and comply with requirements specified. Report any deficient areas to the Owner's representative.

3.2 INSTALLATION

- A. Install products per manufacturers recommendations.
- B. Utilize fasteners, adhesives and bonding agents recommended by manufacturer for type of installation indicated. Material that is chipped, warped, hazed or discolored as a result of installation or fabrication methods will be rejected.
- C. Install components plumb, level and rigid, scribed to adjacent finishes, in accordance with approved shop drawings and product data.
- D. Form field joints using manufacturer's recommended procedures.
- E. Locate seams in panels so that they are not directly in line with seams in substrates.

3.3 CLEANING AND PROTECTION

- A. Protect surfaces from damage until date of substantial completion.

- B. Repair work or replace damaged work, which cannot be repaired to Architect's satisfaction.

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