

Ward 9D Renovations
VA WNY Health Care System
3495 Bailey Ave
Buffalo, New York

SECTION 09 72 61
SOLID SURFACE WET WALL PANEL SYSTEM

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Vertical, solid surface wall cladding for wet applications.
- B. One-Piece Shower Pans
- C. Accessories

1.2 REFERENCES

- A. ASTM International
 - 1. ASTM D256; Impact Resistance of Plastics and Electrical Insulating Materials.
 - 2. ASTM D570; Water Absorption of Plastics.
 - 3. ASTM D638; Tensile Properties of Plastics.
 - 4. ASTM D696; Coefficient of Linear Thermal Expansion of Plastics.
 - 5. ASTM D790; Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
 - 6. ASTM D2583; Indentation Hardness of Rigid Plastics by Means of a Barcol Impresser.
 - 7. ASTM E84; Surface Burning Characteristics of Building Materials.
 - 8. ASTM F462; Standard Consumer Safety Specification for Slip-Resistant Bathing Facilities.
- B. International Association of Plumbing and Mechanical Officials.
IAPMO/ANSI Standard Z124.1.2: Plastic Bathtub and Shower Units
- C. National Electrical Manufacturers Association (NEMA) LD.3 High Pressure Decorative Laminates.

1.3 SUBMITTALS

- A. Refer to Section 01 33 00 Submittal Procedures.
- B. Product Data: Submit manufacturer's current product literature for each product indicated, including maintenance instructions.

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- C. Samples: Provide a six-inch square color sample for products indicated.
- D. Shop Drawings: Include details, and attachments to other work.
 - 1. Submit shop drawings showing seams, termination points, and details of edges.
 - 2. Submit coordination drawings indicating electrical and plumbing work.
- E. Manufacturer Instructions: Provide manufacturer's written installation instructions.
- F. Installer Certification: Submit a signed copy of the installer's certificate, acknowledging the employee has been trained and approved by manufacturer.
- G. Closeout Submittals
 - 1. Refer to Section 01 78 00 Closeout Submittals.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer authorized installer shall fabricate and install solid surface products, and demonstrate successful experience in installing finished carpentry items similar in type and quality to those required for this project.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Refer to Section 01 60 00 Product Requirements.
- B. Deliver sheets, fabricated items, materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Store solid surface products and accessories as recommended by manufacturer.

1.6 WARRANTY

- A. Provide manufacturer's limited ten year warranty against defective material and workmanship.

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PART 2 - PRODUCTS

2.1 WET WALL PANEL SYSTEM

- A. Panels shall be formed from manufacturer's standard 1/4 inch thick wall panel products. Panels shall be full width and height with seams occurring only at the inside corners of the enclosure.

2.2 PANEL MATERIALS

- A. Description: Non-porous, homogeneous material maintaining the same composition throughout the part with a composition of acrylic polymer, aluminum trihydrate filler and pigment.
- B. Sheet Size:
- C. Colors:
- D. Vertical Wet Wall Characteristics:
 - 1. Thickness: 1/4 inch (6mm) when tested in accordance with ASTM
 - 2. Specific Gravity: 27.7 grams/cu. in.
 - 3. Hardness: 60, when tested in accordance with ASTM D2583
 - 4. Elongation: 2.2%, when tested in accordance with ASTM D638
 - 5. Tensile strength: 4,200psi, when tested in accordance with ASTM D638
 - 6. Tensile Modulus: 11×10^5 , when tested in accordance with ASTM D638
 - 7. Water Absorption after 24 hours: .07%, when tested in accordance with ASTM D570
 - 8. Izod Impact Foot Pounds per Inch: .03, when tested in accordance with ASTM D256
 - 9. Impact Resistance 1/2 Pound: No Fracture, when tested in accordance with NEMA LD3-3.3
 - 10. Linear Thermal Expansion: 2.0×10^{-5} , when tested in accordance with ASTM D696
 - 11. High Temperature Resistance: Slight Effect, when tested in accordance with NEMA LD3-3.6
 - 12. Boiling Water Resistance: No Effect, when tested in accordance with NEMA LD3-3.5
 - 13. Stain Resistance: No Effect, when tested in accordance with NEMA LD3-3.9
 - 14. Weight per sq. ft., 1/4 inch thickness: 2.2 pounds
 - 15. Flame Spread: Class I, when tested in accordance with ASTM E84

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2.3 TRIM ACCESSORIES

- A. Provide matching inside corner trim molding to protect and conceal corner sealant.
- B. Provide matching finish trim from 1/2 thick solid surface material.

2.4 INSTALLATION ACCESSORIES

- A. Panel Adhesive: Manufacturer recommended silicone adhesive
- B. Silicone Sealant: Mildew-resistant, FDA-compliant sealant recommended by manufacturer, in color to match solid surface.

2.5 FABRICATION

- A. Solid surface shall be factory fabricated by an authorized fabricator.
- B. Solid surface paneling and shower/tub enclosures shall be fabricated of 1/4" (6mm) thick material unless otherwise indicated.
- C. Solid surface shall be fabricated to field measurements.
- D. Cut and finish component edges with clean, sharp returns.
- E. Finished edges shall have a 1/16" radius

PART 3 - EXECUTION

3.1 GENERAL

- A. Install solid surfaces in accordance with manufacturer's installation guidelines and recommendations.

3.2 EXAMINATION

- A. Inspect materials and location of installation for conditions affecting performance of work in accordance with shop drawings.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.3 PANEL INSTALLATION

- A. Panels shall be provided to heights shown on the drawings with no horizontal seaming.
- B. Panels shall utilize the maximum panel dimension available to minimize vertical seams.
- C. Panels shall be full width and height with seams occurring only at the inside corners of the enclosure.
- D. Field cut panels as required for plumbing fixtures and bath accessories.

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- E. Apply a non-continuous bead of adhesive around perimeter of solid surface panels, approximately 2 inches from panel edge. Apply another bead of adhesive across the center forming an X. Utilize panel manufacturer recommended hot melt glue for temporary adhesion of panels to substrate while adhesive cures.
- F. Allow panels to cure for 24 hours, minimum, before exposure to moisture or pressure.
- G. Corner and vertical joints: Form 1/8-inch-wide joints, sealed with manufacturer's color-matching silicone sealant.

3.4 CLEANING AND PROTECTION

- A. Remove adhesives, sealants and other stains.
- B. Protect shower/bath enclosure from damage. Repair or replace damaged work, to Architects satisfaction.

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