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ARCTIC INFILL PANELS BY ACM PANELWORX

SECTION 08910: ALUMINUM CURTAIN WALL/WINDOWS

Part 2 - PRODUCTS

2.2 MATERIALS

2.2.3. Metal Infill Panels:

1. Panels to consist of ACM Panel fabricated to specific depth and design by project documents. For use within window or curtainwall system.
2. Reference standards:

ASTM International (ASTM):

1. ASTM E330 Standard Test method for Structural Performance of Exterior Windows, Curtain walls and Doors by Uniform Static Air Pressure Difference.
2. ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.
3. Structural Performance of Exterior Windows, Curtain Walls and Doors under the influence of wind loads.
4. Climbing Drum Peel Test for Adhesives.
5. Method for Film Hardness by Pencil Test.
6. Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
7. Method for Measuring Adhesion by the tape test.

American Architectural Manufacturers Association (AAMA):

1. AAMA 2605 Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
2. Pigmented Organic Coatings on Aluminum (Polyester)
3. High Performance Organic Coatings on Aluminum (Kynar)

Underwriters Laboratories Inc. (UL):

1. UL 94 Standard for Flammability of Plastic Materials for Parts in Devices and Appliances

SUBMITTALS

- A. Submit the following in accordance with Section [_____] – Submittal Procedures
 1. Product Data: Insulated panel manufacturer's printed product literature and specifications.
 2. Samples: Duplicate 300 mm x 300 mm (12" x 12") samples of panel material, of color and profile specified, and two samples of each colour and finish texture in 75 mm x 125 mm (3" x 5") size.
 3. Shop drawings: Indicate dimensions, profiles, attachment methods.
- B. Warranty: Provide panel manufacturer's sample warranty certificate.
- C. Maintenance Instructions: Provide panel maintenance and cleaning instructions for [porcelain enamel] [anodized] [painted] finishes.

2.2.4. System description:

- Arctic Infill Panel
- 4mm aluminum composite material with PE core formed to Standard 1" nominal depth
- To fit within glazing pocket of specified system of this section.
- Insulated with RMAX TSX-8500.

2.2.5. Manufacturer:

Acceptable manufacturer:

ACM Panelworx

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2.2.6. Panel Finish:

- Chosen from manufacturers full range
- Solid color
- Metallic
- Mica
- Custom
- Wood Grain
- Exotic Metal

Foam insulation: RMAX TSX-8500, overall insulation depth of 1".

- a. Density in place results: 40 kg/m³ or 2.50 lb/ft³, ASTM D 1622
- b. Thermal Resistance: R (1" thick panel).
Results: 20.3 ft².h.°F/btu.in, ASTM C 518
- c. Flame Spread, Faced
Results: 25 or less, ASTM E84
- d. Smoke Developed, Faced
Results: < 450, ASTM E84
- e. Fasteners: non corrosive as recommended by the manufacturer.

Part 3 – EXECUTION

3.01 EXAMINATION

- A. Before installation examine alignment of substrate and notify [Consultant] [Architect] [Engineer] in writing if substrate does not comply with requirements of panel installer.
- B. Ensure panel surface are free from defects prior to installation.

3.02 INSTALLATION

- A. Erect panels plumb, level and true.
- B. Glaze panels securely and in accordance with approved shop drawings and manufacture's instructions to allow for necessary thermal movement and structural support.
- C. Do not install panels that are observed to be defective including warped, bowed, dented, scratched, and delaminating components.
- D. Weather-seal all joints as required using methods and materials as previously specified.
- E. Separate dissimilar metals using gasketed fasteners and blocking to eliminate the possibility of electrolytic reaction.

3.03 ADJUSTING AND CLEANING

- A. Remove masking film as soon as possible after installation. Masking intentionally left in place after panel installation will be the responsibility of the contractor.