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Job Number: 11-0045D
Test Date(s): 6/30-7/1/11
Report Date: 7/22/11

Test Procedures:

AAMA 501.1 Standard Test Method for Water Penetration of Windows, Curtain Walls, and Doors Using Dynamic Pressure

AAMA 501.5 Test Method for Thermal Cycling of Exterior Walls

ASTM E283-04 Standard Test Method for Determining Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

ASTM E331-00(2009) Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

ASTM E330-02(2010) Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference

Test Specimen Description:

Stud wall:
A freestanding test buck in 12”wide steel ‘C’ channel was prepared by MT Group, 10’-0” in height and 10’-0” wide. A load bearing panel was constructed with 6”deep x 16 gauge studs fitted in to a tracks at the top and base of the panel. The tracks were fastened to the buck with 3/32”thick x ¾” long stainless steel hex head screws 12” centers. Studs were fixed to the tracks at 16” centers. 5/8” plywood sheathing boards was screwed to the vertical studs at 12” centers with 1 5/8” board screws. A priming agent EXOAIR 5 agent was applied to the plywood and EXOAIR110 air/vapor barrier was applied.

Rainscreen System: **Corium Brick System**

(7) 9 gauge vertical aluminum 2” deep ‘Z’ sections were fixed 6” from edge and at 16” through the sheathing to the stud behind using 1/4" x 2” stainless steel hexagon head course thread. (39) proprietary HPS200 Colorcoat steel brick trays were fastened in to the vertical ‘Z’s using 3/16” x 1” stainless steel hexagon head coarse thread screws. The trays interlock. The brick slips are inserted into trays using spacers to maintain 3/8” vertical joints between the brick slips. The slips are built stagger bond or stacked.
The mortar joints were pointed manually with an Eastpointe Historic natural hydraulic lime mortar.

Test Results:

Air infiltration

ASTM E 283

@ 1.57 psf (25 MPH)	>.01 cfm/ft^2
@ 6.24 psf (50 MPH)	> .01 cfm/ft^2
@ 25 psf (100 MPH)	.01 cfm/ft^2

Water Penetration

ASTM E547 (Four (4) five minute cycles) @ 25 psf	No leakage or visible water
ASTM E331 (15 minute continuous) @25 psf	No leakage or visible water
AAMA 501.1 Dynamic @ 25psf (100 MPH)	No leakage or visible water

Uniform Load Structural

ASTM E330

Design Pressure

+60 psf (21" Span between anchors)	0.005"
-60 psf (21" Span between anchors)	0.005"

Overload

+90 psf (21" Span between anchors)	0.005"
-90 psf (21" Span between anchors)	0.005"

Thermal Cycling

AAMA 501.5 (Three (3) cycles -40°F – +140°F)

Phase 1: During the first hour, the temperature was increased on the weather side condition to the specified high temperature conditions of 140°F. These conditions were maintained for two hours.

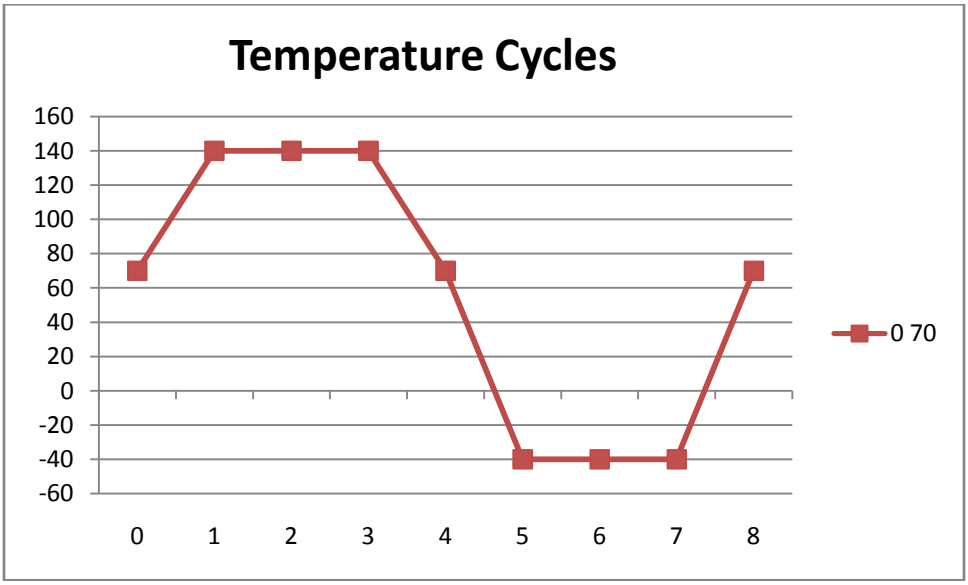
Phase 2: Weather side temperature decreased to 75°F in one hour.

Phase: 3 Weather side conditions were lowered to specified low temperature conditions -40°F over the next hour. These conditions were maintained for two hours.

Phase: 4 Weather side temperature increased to 75°F in one hour.

(The temperatures were average readings based on thermocouples placed six (6) inches from the top, center and six (6) inches from the bottom.)

Cycle 1	No permanent damage due to expansion and contraction
Cycle 2	No permanent damage due to expansion and contraction
Cycle 3	No permanent damage due to expansion and contraction



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MT Group

VP- Window/Curtain Wall Division