



TECHNICAL BULLETIN

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Air and Water Infiltration Medallion I

On July 30, 1992, McElroy Metal, Inc. tested its Medallion I Panel for air leakage and water penetration.

TEST METHODS:

Air Leakage: ASTM E283-91, “Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen”

Water Penetration: ASTM E331-86 (Modified), “Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference”

TEST SPECIMEN:

McElroy Metal, Inc. 24 Ga. 12 in. wide Medallion I Roof Panel. Panels were attached to 5/8” plywood using panel clips at 2’-0” spacing. Panels were installed at 2:12 slope.

TEST RESULTS: *Results are extrapolated to different panel widths.

Specimen	Air Infiltration			Water Penetration			
	Static Pressure Differential (psf)	Air Infiltration rate (cfm/lf)	Air Infiltration rate (cfm/sf)	Static Pressure Differential (psf)	Rate (gal./hr/sf)	Test Duration (min)	Water Infiltration
Medallion I 12 in. 24** Ga.	1.57	0.005	0.005	12.00	5	15	None
Medallion I 12 in. 24** Ga.	6.24	0.006	0.006				
Medallion I 16* in. 24** Ga.	1.57	0.005	0.0038	12.00	5	15	None
Medallion I 16* in. 24** Ga.	6.24	0.006	0.0045				

Test Report No. : 18511

Dated : July 30, 1992

**Test results are valid for heavier gauges or thicknesses.

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