



# TECHNICAL BULLETIN

**Issue Date : January 10, 2000****Revised: February 11, 2013****No. 02-105-00**

## Air and Water Infiltration Medallion-Lok

On March 14, 1994, McElroy Metal, Inc. tested its Medallion-Lok 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. 16 in. wide Medallion-Lok Roof Panel with factory applied sealant at sidelaps. Panels were attached to purlins using panel clips at 5’-0” and 4’-7” 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-Lok 16 in. 24** Ga.	1.57	0.76	0.57	6.24	5	15	None
Medallion-Lok 18* in. 24** Ga.	1.57	0.76	0.51	6.24	5	15	None

Test Report No. : 20801

Dated : March 14, 1994

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

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