



TECHNICAL BULLETIN

Issue Date : March 29, 2000**Revised: February 5, 2013****No. 01-114-00**

Air and Water Infiltration Medallion-Lok 24 Ga.

On December 27, 1999, McElroy Metal, Inc. tested its Medallion-Lok Panel for air leakage and water penetration.

TEST METHODS:

Air Leakage: ASTM E1680-95, "Rate of Air Leakage Through Exterior Metal Roof Panel Systems"

Water Penetration: ASTM E1646-95, "Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference"

TEST SPECIMEN:

McElroy Metal, Inc. 24 Ga. 16 in. wide Medallion-Lok Roof Panel over #30 underlayment with 6 inch overlaps. Panels were attached to 5/8" (nominal) plywood using (1) #10-12 Pancake Head woodgrip fastener per clip, with clips at 3 feet on center.

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 12" 24** Ga.	+/-6.24	0.006	0.006	12.00	5	15	None
*Medallion-Lok 12" 24** Ga.	+/-1.57	0.004	0.004				
Medallion-Lok 16" 24** Ga.	+/-6.24	0.006	0.004	12.00	5	15	None
Medallion-Lok 16" 24** Ga.	+/-1.57	0.004	0.003				
*Medallion-Lok 18" 24** Ga.	+/-6.24	0.006	0.004	12.00	5	15	None
*Medallion-Lok 18" 24** Ga.	+/-1.57	0.004	0.003				

Test Report No. : T101-00

Dated : January 5, 2000

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

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