



TECHNICAL BULLETIN

Issue Date : March 29, 2000**Revised: February 5, 2013****No. 01-116-00**

Air and Water Infiltration Medallion I 24 Ga.

On February 1, 2000, McElroy Metal, Inc. tested its Medallion I 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. 12 in. wide Medallion I Roof Panel over #30 underlayment with 6 inch overlaps. Panels were attached to 5/8" (nominal) plywood using (2) #10-12 Pancake Head woodgrip fastener per clip, with clips at 2 feet on center. All plywood butt joints were sealed with silicone sealant.

TEST RESULTS:

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" 24* Ga.	+6.24	0.003	0.003	8.00	5	15	None
Medallion I 12" 24* Ga.	+1.57	0.002	0.002				
Medallion I 12" 24* Ga.	-6.24	0.003	0.003				
Medallion I 12" 24* Ga.	-1.57	0.003	0.003				

Test Report No. : T118-00

Dated : February 5, 2000

*Test results are valid for heavier gauges and thicknesses.

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