



# TECHNICAL BULLETIN

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## Air and Water Infiltration Medallion-Lok 24 Ga.

On December 6, 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. Panels were attached to purlins using (1) #10-16 Pancake Head self-driller fastener per clip.

**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	2.86	5	15	None
*Medallion-Lok 12" 24** Ga.	-6.24	0.004	0.004				
*Medallion-Lok 12" 24** Ga.	+1.57	0.002	0.002				
*Medallion-Lok 12" 24** Ga.	-1.57	0.004	0.004				
Medallion-Lok 16" 24** Ga.	+6.24	0.006	0.004				
Medallion-Lok 16" 24** Ga.	-6.24	0.004	0.003				
Medallion-Lok 16" 24** Ga.	+1.57	0.002	0.001				
Medallion-Lok 16" 24** Ga.	-1.57	0.004	0.003				
*Medallion-Lok 18" 24** Ga.	+6.24	0.006	0.004				
*Medallion-Lok 18" 24** Ga.	-6.24	0.004	0.003				
*Medallion-Lok 18" 24** Ga.	+1.57	0.002	0.001				
*Medallion-Lok 18" 24** Ga.	-1.57	0.004	0.003				

Test Report No. : T235-99

Dated : December 15, 1999

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

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