



Engineering Technical Bulletin

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EM BattenLok HS[®] Air Leakage and Water Penetration Test Data

PRODUCT

EM BattenLok HS[®] profiles with mastic in battens.

TEST PROCEDURES

ASTM E 1680-95: Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems.

ASTM E 1646-95: Standard Test Method Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference.

TEST RESULTS

Air Leakage was conducted with a uniform static air pressure differential of ± 1.57 psf & ± 6.24 psf. Water Penetration was conducted with a uniform static air pressure differential of 12.00 and 20.00 psf.

Air Leakage Test Results: 0.0004 cfm per lineal foot of side joint at ± 1.57 psf.
0.0013 cfm per lineal foot of side joint at ± 6.24 psf.

Water Penetration Test Results: No uncontrollable water leakage at 12 psf when five gallons per hour of water were sprayed per square foot of roof area.

SUMMARY

Profile	ASTM E 1680-95 Air Leakage		ASTM E 1646-95 Water Penetration	
	Pressure Differential	Leakage Rate	Pressure Differential	Infiltration Rate
16" EM BattenLok HS [®]	± 1.57 psf	0.0003 cfm / sq.ft.	12 psf	None
16" EM BattenLok HS [®]	± 6.24 psf	0.0008 cfm / sq.ft.	12 psf	None

Copies of the independent test laboratory reports are available upon request.

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