Metal Roof and Wall Systems

Engineering Technical Bulletin

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BattenLok HS®
Air Leakage and Water Penetration Test Data

PRODUCT

MBCI **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*.

Water Penetration Test Results: No uncontrollable water leakage at 12 and 20 *psf* when five gallons per hour of water were sprayed per square foot of roof area.

SUMMARY

	ASTM E 1680-95 Air Leakage		ASTM E 1646-95 Water Penetration	
Profile	Pressure Differential	Leakage Rate	Pressure Differential	Infiltration Rate
16" BattenLok HS	+/-1.57 *psf*	0.016 *cfm / sq.ft.*	20 *psf*	None
16" BattenLok HS	+/- 6.24 *psf*	0.025 *cfm / sq.ft.*	*20 psf*	None

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

Test Report Number T101-07 Dated 1/5/2007

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