



# Engineering Technical Bulletin

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## SuperLok<sup>®</sup> Air Leakage and Water Penetration Test Data

### PRODUCT

MBCI SuperLok<sup>®</sup> 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.

1. 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  $\pm 6.24$  *psf* &  $\pm 12.00$  *psf*.  
Water Penetration was conducted with a uniform static air pressure differential of 20.00 *psf*.

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

The following are the test results extrapolated to the different widths to which they apply.

### SUMMARY

Profile	ASTM E 1680-95 Air Leakage		ASTM E 1646-95 Water Penetration	
	Pressure Differential	Leakage Rate	Pressure Differential	Infiltration Rate
12" SuperLok	$\pm 6.24$ <i>psf</i>	0.0033 <i>cfm / sq. ft.</i>	20 <i>psf</i>	None
12" SuperLok	$\pm 12.00$ <i>psf</i>	0.0041 <i>cfm / sq. ft.</i>	20 <i>psf</i>	None
16" SuperLok	$\pm 6.24$ <i>psf</i>	0.0025 <i>cfm / sq. ft.</i>	20 <i>psf</i>	None
16" SuperLok	$\pm 12.00$ <i>psf</i>	0.0031 <i>cfm / sq. ft.</i>	20 <i>psf</i>	None

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

Test Report Nos. 373-0110T-10B      Dated: 4/28/2010