



# Engineering Technical Bulletin

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## Insulated Panel Systems Air Leakage and Water Penetration Test Data

### PRODUCT

IPS's Insulated Battenlok Panel with Non-Skinning Butyl Modified Sealant located in the tongue and groove side lap.

### 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 +/- 6.24 *psf* & +/- 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
42" Insulated Battenlok Panel	+/- 6.24 <i>psf</i>	0.051 <i>cfm</i> / <i>sq. ft.</i>	20 <i>psf</i>	None
42" Insulated Battenlok Panel	+/- 12.00 <i>psf</i>	0.066 <i>cfm</i> / <i>sq. ft.</i>	20 <i>psf</i>	None

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

Test Report No. T236-10      Dated: 06/11/2010