



# Engineering Technical Bulletin

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

### PRODUCT

IPS's ESP II, EWP II, FWP, IPP II and Sonora profiles with Non-Skinning Butyl Modified Sealant in the side lap.

### TEST PROCEDURES

ASTM E 283-04: Standard Test Method for Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors.

ASTM E 331-00: Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors.

### TEST RESULTS

Air Leakage was conducted with a uniform static air pressure differential of + 12.00 *psf* & + 20.00 *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 283-04 Air Leakage		ASTM E 331-005 Water Penetration	
	Pressure Differential	Leakage Rate	Pressure Differential	Infiltration Rate
36ö Eco-ficient Wall Panel	+ 12.00 <i>psf</i>	0.0082 <i>cfm / sq. ft.</i>	20 <i>psf</i>	None
36ö Eco-ficient Wall Panel	+ 20.00 <i>psf</i>	0.0128 <i>cfm / sq. ft.</i>	20 <i>psf</i>	None
42ö Eco-ficient Wall Panel	+ 12.00 <i>psf</i>	0.0070 <i>cfm / sq. ft.</i>	20 <i>psf</i>	None
42ö Eco-ficient Wall Panel	+ 20.00 <i>psf</i>	0.0110 <i>cfm / sq. ft.</i>	20 <i>psf</i>	None

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

Test Report No. T400-09      Dated: 12/29/2009