



Engineering Technical Bulletin

No. 176-05-98

Revised – March 12, 1999

Air Leakage and Water Penetration Test Data

PRODUCT

MBCI U-Panel 26 Ga. with stitch screws at 12" o/c and continuous ½" x 3/32" Tape Sealer at panel side-lap.

TEST PROCEDURES

1. ASTM E 283-84: Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors
2. ASTM E 331-83: Standard Test Method for Water Penetration Through Exterior Windows, Curtain Walls, and Doors

TEST RESULTS

Air Leakage was conducted with a uniform static air pressure differential of 1.57 PSF.

Water Penetration was conducted with a uniform static air pressure differential of 6.24 PSF.

Air Leakage Test Results: .022 CFM per lineal foot of side joint at 1.57 PSF.

Water Penetration Test Results: No uncontrollable water leakage at 6.24 PSF when five gallons per hour of water were sprayed per square foot of roof area.

The following is the test summary report.

SUMMARY

Profile	ASTM E 283-84 Air Leakage		ASTM E 331-83 Water Penetration	
	Pressure Differential	Leakage Rate	Pressure Differential	Infiltration Rate
U-Panel 26 Ga.	1.57 PSF	.0067 CFM/ sq. ft.	6.24 PSF	None

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

Test Report #T141-96 Dated 12/9/96.