



Engineering Technical Bulletin

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EM MasterLine 16 Air Leakage and Water Penetration Test Data

PRODUCT

EM MasterLine 16 Panel with ¼” diameter bead of SM 5430 non-skinning butyl in sidelap.

TEST PROCEDURES

ASTM E 283-04 (2012): Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors

ASTM E 331-00 (2012): Standard Test Method for Water Penetration Through Exterior Windows, Curtain Walls, and Doors

TEST RESULTS

Both tests were conducted with a uniform static air pressure listed below.

Water Penetration Test Results: No uncontrollable water leakage at 20.00 *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 283-04 Air Infiltration		ASTM E 331-00 Water Penetration	
	Pressure Differential	Leakage Rate	Pressure Differential	Infiltration Rate
MasterLine 16 Panel	6.24 <i>psf</i>	0.002 <i>cfm / sq.ft.</i>	20.00 <i>psf</i>	None
	12.00 <i>psf</i>	0.003 <i>cfm / sq.ft.</i>		

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

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