

WALLSHIELD® APPROVALS and TESTING

ACCEPTANCE CRITERIA FOR WEATHER RESISTIVE BARRIERS AC 38 (POLYMERIC-BASED BARRIERS)

PROPERTY	STANDARD/TEST	RESULT
Tensile Strength	ASTM D882	MD – 28.2 lbf/inch (4.94 N/mm) CD – 22.6 lbf/inch PASS
Water Resistance (control and weathered specimens)	AATCC 127 (55cm hydrostatic head of water for 5 hrs)	No leakage noted on underside of control or weathered samples PASS
Water Vapor Transmission	ASTM E96* (Method B)	1309.7 g/m ² 24hrs 12126.4 ng/Pa/s/m ² 212 Perms PASS
Low Temperature Bend	5 specimens bent over a 1/16 inch mandrel at 32°F	No cracking or de-lamination noted. PASS

FIRE TESTING

PROPERTY	STANDARD/TEST	RESULT
Flamespread Index	ASTM E-84	5 – Class A PASS
Smoke Development Index	ASTM E-84	70 – Class A PASS

INDEPENDENT TESTING

PROPERTY	STANDARD/TEST	RESULT
Nominal Thickness	Calibrated Deadweight Micrometer	0.023 inch (0.58mm)
Basis Weight	Electronic Weigh Scale	5.16 oz/yd ² (0.55 oz/ft ²) 175g/m ²
Drying Rate Analysis of Wet Plywood & OSB**	Water Loss (g) Over 100 hrs at 70°F, 50% RH	280 grams of water vapor lost through WallShield membrane (3.5 times nearest competitor)

Tested in accordance with ICC-ES-AC 38 criteria to meet IBC and IRC requirements for Weather Resistive Barriers (ICC Certificate #ESR-1916).

***ASTM E 96 - Method B (wet cup method) typically gives a more realistic result for permeance of highly permeable products than does the Method A (dry cup/desiccant method).**

****Test report available for review from VaproShield LLC**

REFERENCES

AATCC - American Association of Textile Chemists & Colorists
ASTM - American Society for Testing & Materials
ICC-ES-AC - International Code Council, Evaluation Service Report