

Test Results Summary

Test		EMC-3639	
UV Resistance ICC AC48, ICC EG356	9 weeks/630 light hours - No peeling, chipping, cracking, flaking, pitting, crazing, erosion, or other deleterious effects were observed under a 5x magnification		
Fungal Resistance ASTM C 1338	Aspergillus niger ATCC # 9642 - No growth Aspergillus versicolor ATCC # 11730 - No growth Aspergillus flavus ATCC # 9643 - No growth Chaetomium globosum ATCC # 6205 - No growth Penicillium pinophilum ATCC # 11797 - No growth		
Water Vapor Transmission ASTM E 96-05 (ASTM E 96-00E01)	Avg. WVT: 9.6 Avg. Permeance: 23.45 Avg. Permeability: 8.79		
Funnel Testing of Wall Systems ASTM E 2273, ICC EG356	Panel 1: with WOW-3639 Water Collected: 97.5%	Panel 2: with LR-3639 Water Collected: 97.4%	
Funnel Testing of Wall Systems	Panel	Time to Stop Draining (hrs)	Observations
	No Drainage Plane	>3:30:00	Wall did not drain but absorbed the water. After 3 ½ hours still wet as water bleeds through scratch coat
	EMC-3639	0:01:40	Dripping stopped and wall starting to dry
	EMC-3639 with WOW-3639	0:02:45	Dripping stopped and wall starting to dry

**Restricted
Funnel Wall
Test**

6.65Kg Water introduced to Wall Panels

Panel	Time to Stop Draining (hrs)	Observations
No Drainage Plane	0:25:00	Dripping stopped top of Wall starting to dry, some water bled through scratch coat. Collected 1.580 Kg of water
EMC-3639	0:08:30	Dripping stopped and collected 4.896 Kg of water. Some water missed the collection pan
EMC-3639 with WOW-3639	0:02:45	Dripping stopped and collected 5.668 Kg of water. Some water missed the collection pan

Compression

Avg. Compressive Strength: 18.5 kPa
Avg. Load at 10% Deform.: 248 lbf

Mean Compressive Strength

127 kPa

Thickness & Weight

Weight: 860 g/m²
Thickness: .77mm

Dynamic Impact Load

Passed 14 of 15 trials (93%)

Static Puncturing

Passed 6 of 6 trials

Low-temp flexibility

No Cracking

Tensile Strength & Elongation

Tensile Strength:
Machine Direction, 14% of original
Cross-Machine Direction, 13% of original.
Elongation:
Machine Direction, 59% of original
Cross-Machine Direction, 49% of original.

Water Immersion:	Dimensional Change: 0% Weight Change 0.08% More...			
Heat Aging	Dimensional Change: 0% Weight Change: 0.002% More...			
Chemical Exposure: Ammonium Chloride	No visible Deterioration			
Chemical Exposure: Sodium Sulfate	No visible deterioration			
Dimensional Stability - Mean Results	With Cloth:			
	-30°C	-15°C	50°C	70°C
	0	-.1	.1	.3
	Without Cloth:			
	-30°C	-15°C	50°C	70°C
	0	-.1	0	.1
Moisture Testing of Sure Cavity™ Drainage System	Maximum recorded Wood Moisture Equivalent			
	Layer	Panel with EMC-3639	Control Panel (No Drainage Plane)	
	Wood Layer	8.72	13.17	
	Building Paper Layer 1	9.29	16.55	
	Building Paper Layer 2	10.06	27.34	

Testing on Other Products

Test	White Plastic Products
UV Resistance ASTM G 154-00A	10 hrs/day for 21 days (210 hours) - All panels had yellowing but no cracking, checking, crazing, or erosion that might affect performance.
Fungal Resistance ASTM C 1338	Aspergillus niger ATCC # 9642 - No growth Aspergillus versicolor ATCC # 11730 - No growth Aspergillus flavus ATCC # 9643 - No growth Chaetomium globosum ATCC # 6205 - No growth Penicillium pinophilum ATCC # 11797 - No growth