



PROTEC-C AND PROTECT-J

(Weather Resistive Barrier)

Testing Summary

PROPERTY	TEST METHOD	RESULTS
BOND STRENGTH		
Plywood, MPa	ASTM C-297	0.21 (Epoxy failure)
Glass Mat Faced Gypsum Sheathing, MPa		0.11 (Sheathing facer sheet to core failure)
Cement Sheathing, MPa		0.18 (Sheathing facing failure)
WATER VAPOUR TRANSMISSION		
Water Vapour Permeance, ng/Pa.s.m ² (perms)	ASTM E-96 Desiccant Method	PROTEC-J: 267 (4.66) PROTEC-C: 530 (9.26)
WATER RESISTANCE		
Water Ponding Test	CCMC Method for Wall Sheathing Membranes in accordance with CAN2-51.32-M77	No water passage after 2 hours (25.4 mm H ₂ O head)
Water Penetration Resistance	In-house Lab. Method	No water passage after 24 hours (89 mm H ₂ O head)
AIR PERMEANCE		
Air Leakage Rate	ASTM E 2178-01 and ASTM E 283-99	0.0018 L/s/m ² , at 75 Pa
JOINT MOVEMENT DURABILITY		
Tension, Compression, and Shear Tests, with a 12.7 mm (½") gap between plywood sheets	In-house Lab. Method	Accommodates joint movement without breakage. No water leakage after deformation.
FLEXIBILITY		
Pliability	ASTM D-522	Passes ½" mandrel at: -17 °C, 4.4 °C and 23.8 °C
TENSILE STRENGTH AT BREAK		
Tensile Strength, MPa	ASTM D-2370	0.4
ELONGATION AT BREAK		
Elongation, %	ASTM D-2370	82
MILDEW AND FUNGAL RESISTANCE		
Mildew and Fungal Resistance	Test 1.4 B	No fungal or mildew development on surface after 3 weeks
SURFACE BURNING		
Flame Spread	CAN/ULC S102-M88	10
Smoke Development		0