



POLYSHIELD
(VAPOUR AND AIR BARRIER)
Testing Summary

| PROPERTY | TEST METHOD | RESULTS |
|--|---|---|
| Flexibility (1/2" Mandrel) @ 14 days: | | |
| -15° C | ASTM D-522 | passes 1/2" mandrel |
| 20° C | | passes 1/2" mandrel |
| Elongation @ 28 days (%) | ASTM D-412 | 12.2 |
| Elongation w/ mesh @ 28 days (%) | | 2.5 |
| Tensile Strength @ 28 days | | 160 psi (1.1 MPa) |
| Tensile Strength w/ mesh @ 28 days | | 3016 psi (20.8 MPa) |
| Adhesion @ 28 days: | | |
| to Dens-Glass Gold | ASTM C-297 | 16 psi (0.11 MPa) (*) |
| to EPS | | 20 psi (0.14 MPa) (**) |
| to Concrete Block | | 95 psi (0.65 MPa) 31 psi (0.22 MPa) 96 psi (0.66 MPa) |
| -in dry state | | |
| -after 48 hour immersion and 2 hour drying | | |
| -after 48 hour immersion and 7 day drying | 75 psi (0.52 MPa) 68 psi (0.47 MPa) 68 psi (0.47 MPa) | |
| to Cementitious Sheathing | | |
| -in dry state | | |
| -after 48 hour immersion and 2 hour drying | | |
| -after 48 hour immersion and 7 day drying | | |
| Water Penetration (10 psf) @ 28 days | ASTM E-514 | No leakage after 8 hours |
| Water Absorption @ 28 days (%) | ASTM D-570 | 2.9 |
| Water Vapour Permeance @ 28 days | ASTM E-96 (Desiccant Method) | 0.18 Perms (10 ng / Pa s m ²) |
| Water Vapour Permeance @ 28 days w/ mesh | | 0.15 Perms (8.7 ng / Pa s m ²) |
| Water Vapour Permeance @ 28 days w/ mesh | ASTM E-96 (Water Method) | 1.01 Perms (57.8 ng / Pa s m ²) |
| Air Leakage (L/ s m2) | ASTM E-2178 | < 0.02 @ 75 Pa |
| Mildew and Fungal Resistance | Method 1.4B | Does not support growth |
| Surface Burning (rating) | CAN / ULC S102 | Flame = 25, Smoke = 70 |
| | | Class 1 / Class A |
| Freeze/ Thaw Resistance (60 cycles) @ 28 days | EIMA 101.01 | no checking, cracking or delamination |
| (*) sheathing facing failure; (**) cohesive foam failure | | |