

# Self-adhering Air and Water-resistive Barriers

See Which One is Best

Performance Criteria	Requirement	Dörken Systems Inc. DELTA®-STRATUS SA	Vaproshield Wrapshield SA
Air leakage of air barrier assemblies (ASTM E2357-11) (CAN/ULC-S742-11 Class A1)	< 0.2 L/(s • m <sup>2</sup> ) @ 75 Pa (0.04 cfm/ft <sup>2</sup> @ 1.57 lb/ft <sup>2</sup> )	Pass Pass	Pass Pass
Air permeance (ASTM E2178) (CAN/ULC-S741-08)	< 0.02 L/(s • m <sup>2</sup> ) @ 75 Pa (0.004 cfm/ft <sup>2</sup> @ 1.57 lb/ft <sup>2</sup> )	Pass Pass	Pass -
Water resistance hydrostatic pressure (AATCC 127-1985)	55 cm > 5 hours	Pass	Pass
Vapor permeance (ASTM E96-05, Proc. A)	min. 10 perms (per IBC)	31 perms	-
Vapor permeance (ASTM E96-05, Proc. B)	-	50 perms	50 perms
Flame spread (ASTM E84-09)	Class A: < 25	Class A	Class A
Smoke developed (ASTM E84-09)	Class A: < 450	Class A	Class A
90° Peel Adhesion (AAMA 711-07 §5.3)	min. 0.26 N/mm	OSB 0.30 N/mm Plywood 0.28 N/mm Densglass 0.29 N/mm	Pass
Breaking strength (ASTM D5034-95)	-	MD 107 lbf/XD 100 lbf	MD 88 lbf/XD 83 lbf
Elongation at break (ASTM D5034-95)	-	MD 38 % XD 60 %	-
ICC Evaluation (AC38)	as per AC38	ICC ESR-2932	-
UV Exposure Time	-	UV/ weather exposure up to 180 days in climate zones 3-8, and up to 150 days in climate zones 1-2	12 months (maximum) UV & Climate Exposure Prior to Cladding Installation
Manufacturing	-	In house	Manufacturing outsourced

**\*\*DELTA®-STRATUS SA has a 4th layer that is an innovative acrylic UV-resistant coating that is proven to provide UV protection\*\***