

Self-adhering Air and Water-resistive Barriers

See Which One is Best

Performance Criteria	Requirement	Dörken Systems Inc. DELTA®-STRATUS SA	Vaproshield Wrapshield SA	Grace Perm- A-Barrier VPS	Henry Blueskin VP 160	Soprema Sopraseal Stick VP
Air leakage of air barrier assemblies (ASTM E2357-11) (CAN/ULC-S742-11 Class A1)	< 0.2 L/(s · m ²) @ 75 Pa (0.04 cfm/ft ² @ 1.57 lb/ft ²)	Pass Pass	Pass Pass	Pass -	Pass Pass	Pass Pass
Air permeance (ASTM E2178) (CAN/ULC-S741-08)	< 0.02 L/(s · m ²) @ 75 Pa (0.004 cfm/ft ² @ 1.57 lb/ft ²)	Pass Pass	Pass -	Pass -	Pass Pass	Pass Pass
Water resistance hydrostatic pressure (AATCC 127-1985)	55 cm > 5 hours	Pass	Pass	Pass	-	Pass
Vapor permeance (ASTM E96-05, Proc. A)	min. 10 perms (per IBC)	31 perms	-	15 perms	29 perms	11 perms
Vapor permeance (ASTM E96-05, Proc. B)	-	50 perms	50 perms	15 perms	-	17 perms
Flame spread (ASTM E84-09)	Class A: < 25	Class A	Class A	Class A	Class A	Class A
Smoke developed (ASTM E84-09)	Class A: < 450	Class A	Class A	Class A	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	-	Pass Unprimed Plywood	-
Breaking strength (ASTM D5034-95)	-	MD 107 lbf/XD 100 lbf	MD 88 lbf/XD 83 lbf	MD 40 lb/CD 35 lb	MD 127 lb/CD 91 lb	MD 89 lb/CD 69 lb
Elongation at break (ASTM D5034-95)	-	MD 38 % XD 60 %	-	-	-	-
ICC Evaluation (AC38)	as per AC38	ICC ESR-2932	-	-	ICC ESR-2975	-
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	not to exceed 150 days	designed for exposure of up to 180 days	up to 180 days
Manufacturing	-	In house	Manufacturing outsourced	Manufacturing outsourced	Manufacturing outsourced	Manufacturing outsourced