

TRASPIR EVO 160



HIGHLY BREATHABLE MONOLITHIC MEMBRANE



MONOLITHIC

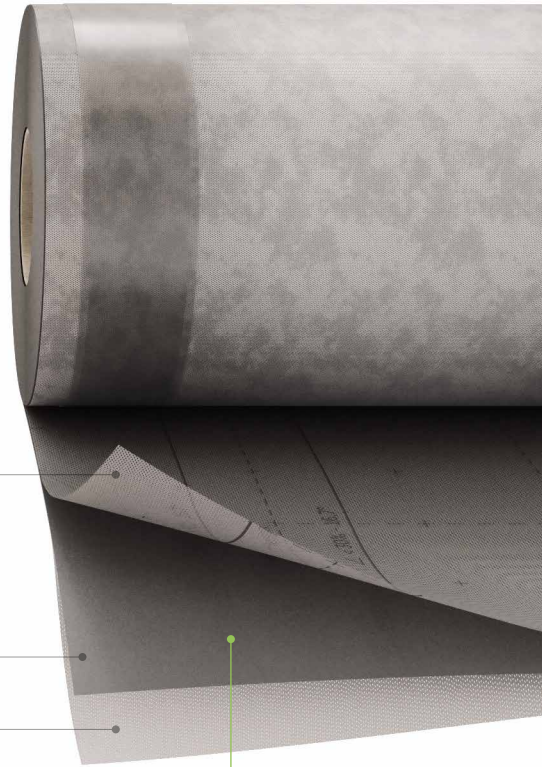
The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used. The continuous and homogeneous film offers a complete barrier against the passage of water.

REACTION TO FIRE B-s1,d2

Self-extinguishing membrane which does not spread the flame in case of fire, contributing to the protection of the structure.

HIGH UV STABILITY

It passed the artificial ageing test involving exposure to UV light for 1000 hours.



MONOLITHIC

COMPOSITION

top layer
non-woven PP fabric

middle layer
breathable monolithic film

bottom layer
non-woven PP fabric

CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m ²]	[ft]	[ft]	[ft ²]	
TEVO160	TRASPIR EVO 160	-	1,5	50	75	5	164	807	30
TTTEVO160	TRASPIR EVO 160 TT	TT	1,5	50	75	5	164	807	30



SECURE SEALING

The TT version offers fast installation and professional sealing thanks to the integrated double tape.

HEAVY RAIN

High protection against heavy rain during temporary exposure to weather during construction.

TECHNICAL DATA

EU Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	160 g/m ²	0.52 oz/ft ²
Thickness	EN 1849-2	0,5 mm	20 mil
Water vapour transmission (Sd)	EN 1931	0,1 m	-
Maximum tensile force MD/CD	EN 12311-1	280 / 220 N/50mm	32 / 25 lb/in
Tensile strength	ASTM D828	3,8 N/mm	-
Elongation MD/CD	EN 12311-1	50 / 60 %	-
Resistance to nail tearing MD/CD	EN 12310-1	180 / 200 N	40 / 45 lbf
Watertightness	EN 1928	class W1	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	260 / 200 N/50mm	30 / 23 lb/in
- elongation	EN 1297 / EN 12311-1	40 / 50 %	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
Reaction to fire	EN 13501-1	class B-s1,d2	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F
Resistance to penetration of air	EN 12114	< 0,02 m ³ /(m ² h50Pa)	< 0.001 cfm/ft ² at 50Pa
Thermal conductivity (λ)	-	0,4 W/(m·K)	0.23 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 370 kg/m ³	approx. 0.21 oz/in ³
Water vapour resistance factor (μ)	-	approx. 160	approx. 0,5 MNs/g
Joint strength	EN 12317-2	> 200 N/50mm	> 22.840589 lb/in
VOC content	-	0 %	-
UV stability ⁽¹⁾	EN 13859-1/2	6 months	-
Exposure to weather ⁽¹⁾	-	6 weeks	-
Water column	ISO 811	> 500 cm	> 197 in
Driving rain test	TU Berlin	passed	-

⁽¹⁾ For the correlation between laboratory tests and actual conditions, see page 199 of "TAPES, SEALANTS AND MEMBRANES" catalogue.

USA and CA Properties	standard	value
Water vapour transmission (dry cup)	ASTM E96/ E96M	12.3 US perm
Water penetration of exterior walls at 300 Pa	CAN2-51.32-M77	702 ng/(s·m ² ·Pa)
Air barrier	ASTM E331	passed
Air barrier (before and after aging)	ASTM E2178	passed
Sheathing, Membrane, Breather Type	CAN/ULC-S741	passed
Pliability	CAN2-51.32-M77	passed
Total heat release rate	ASTM 1354	5,4 MJ/m ²
Flame spread index (FSI)	ASTM E84	0 (class 1 or class A)
Smoke Developed Index (SDI)	ASTM E84	30
Evaluation of fire propagation	NFPA 285	approved

AUS and NZ Properties	standard	value
Resistance to water penetration	AS/NZ 4201.4	Water barrier
Flamability index	AS 1530.2	<5 ⁽²⁾
Duty classification	AS/NZS 4200.1	Light wall
Tensile strength MD/CD	AS 1301.448s	4,3/3,6 kN/m
Edge tearing resistance MD/CD	AS/NZS 4200.0	221/181 N
Burst strenght	AS 2001.2.19 / AS/NZS 4200.1	357 N
Shrinkage	AS/NZS 4201.3	<0.5%
Emittance front/back	AS/NZS 4201.5	Non reflective
Electrical conductivity	AS 3100 / AS/NZS 4200.1	Non conductive

⁽²⁾ This product is suitable for use in BAL regions 12.5 to 40 in accordance with AS 3959. Wherever non-combustible material is required by the NCC it should be noted that this product is less than 1mm thick and has a flammability index of less than 5.

FIRE PROTECTION



FIRE SEALING



FIRE FOAM



FIRE STRIPE



FRONT BAND UV 210