

TRASPIR EVO 160

HIGHLY BREATHABLE MONOLITHIC MEMBRANE



A Dnorm B4119 UD Typ I	CH SIA 232 UD (wU)	D ZVDH USB-A UDB-A	F DTU 31.2 E1 Sd1 TR1 E600 Jf C2	I UNI T1470 B/R2
AUS AS/NZS 4200.1 Class 4	USA IRC vp	 AS1530.2 index 1	 B-s1,d2	

MONOLITHIC

The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used.

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 TPE 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

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	-
Water vapour transmission (dry cup)	ASTM E96/ E96M	12.3 US perm 702 ng/(s·m ² ·Pa)	-
Maximum tensile force MD/CD	EN 12311-1	280 / 220 N/50mm	32 / 25 lb/in
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	-
Temperature resistance	-	-40 / 100 °C	-40 / 212 °F
Reaction to fire	EN 13501-1	class B-s1,d2	-
Flammability index	AS 1530.2	1	-
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
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 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F
Driving rain test	TU Berlin	passed	-

⁽¹⁾ For the correlation between laboratory tests and actual conditions, see page 199.

FIRE PROTECTION



FIRE SEALING
page 122 -124



FIRE FOAM
page 118



FIRE STRIPE
page 130



FRONT BAND UV 210
page 98



MONOLITHIC FILM

The monolithic functional membrane guarantees breathability, thanks to a chemical reaction, rather than a micro perforation process as seen in microporous products. Therefore the continuous and homogeneous layer offers a complete barrier against the passage of water.