TRASPIR EVO 135

MONOLITHIC BREATHABLE MEMBRANE

CE
EN 13859-1/2

AUS	USA	D	F	I
AS/NZS 4200.1 Class 4	IRC vp	ZVDH USB-A UDB-B	DTU 31.2 E1 Sd1 TR1 E450 Jf C2	UNI 11470 C/R2

EASY USE | LIGHT | DURABILITY

AGEING RESISTANCE

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

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.

COMPOSITION

1. **top layer:** non-woven PP fabric
2. **middle layer:** monolithic breathable film
3. **bottom layer:** non-woven PP fabric

CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m²]	*H [ft]*	*L [ft]*	*A [ft²]*	
TEVO135	TRASPIR EVO 135	-	1,5	50	75	*5*	*164*	*807*	30
TTTEVO135	TRASPIR EVO 135 TT	TT	1,5	50	75	*5*	*164*	*807*	30

SAFE

The monolithic membrane protects the envelope and improves the durability of the materials, preventing condensation and currents in the insulation layer.

COST-PERFORMANCE

The monolithic functional film and reduced mass per unit area makes it possible to obtain an excellent, cost-effective product.

TECHNICAL DATA

Properties	standard	value	*USC units*
Mass per unit area	EN 1849-2	135 g/m^2	*0.44 oz/ft^2*
Thickness	EN 1849-2	0,45 mm	*18 mil*
Water vapour transmission (Sd)	EN 1931	0,1 m	*35 US Perm*
Tensile strength MD/CD	EN 12311-1	200/160 N/50 mm	*23/18 lbf/in*
Elongation MD/CD	EN 12311-1	90/90 %	-
Resistance to nail tearing MD/CD	EN 12310-1	160/190 N	*36/43 lbf*
Watertightness	EN 1928	W1	-
After ageing:			
- watertightness at 100°C	EN 1297/EN 1928	W1	-
- tensile strength MD/CD	EN 1297/EN 12311-1	160/130 N/50 mm	*18/15 lbf/in*
- elongation	EN 1297/EN 12311-1	60/60 %	-
Reaction to fire	EN 13501-1	E	-
Resistance to penetration of air	EN 12114	< 0,02 m^3/(m^{2}h50Pa)	*< 0.001 cfm/ft^2 at 50Pa*
Flexibility at low temperatures	EN 1109	-40 °C	*-40 °F*
Resistance to temperature	-	-40/100 °C	*-40/212 °F*
UV stability(1)	EN 13859-1/2	1000h (8 months)	-
Thermal conductivity (λ)	-	0,3 W/(m·K)	*0.17 BTU/h·ft·°F*
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 300 kg/m^3	*approx. 19 lbm/ft^3*
Water vapour resistance factor (μ)	-	approx. 220	*approx. 0,5 MNs/g*
VOC	-	not relevant	-

(1) Laboratory ageing test data cannot reproduce unforeseeable causes of the product's degradation, or consider the stresses to which it will be subjected during its service life. To ensure its integrity, as a precautionary measure, exposure to weathering during construction should be limited to a maximum of 8 weeks. According to DTU 31.2 P1-2 (France) 1000h of UV ageing equates to a maximum exposure period of 3 months during the construction phase.

Waste classification (2014/955/EU): 17 02 03.

RELATED PRODUCTS

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MANICA FLEX
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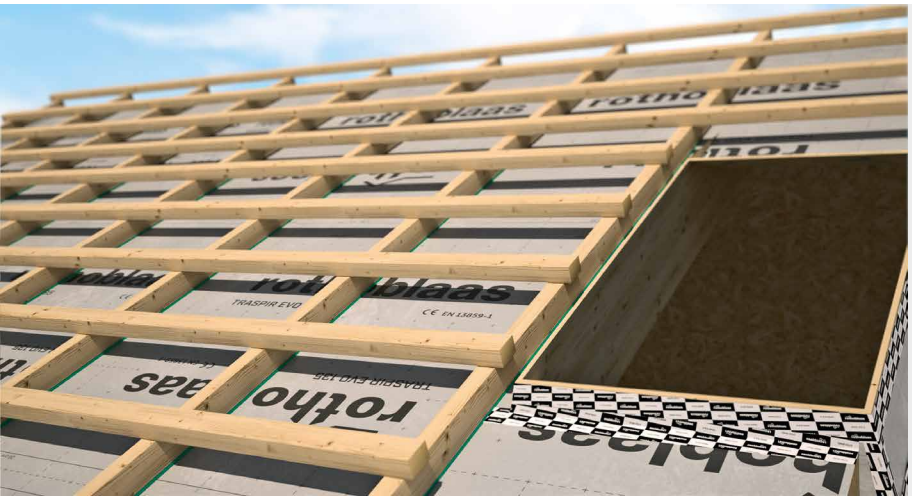

RELIABLE

The monolithic functional membrane ensures breathability through a chemical reaction. The continuous and homogeneous layer offers a complete barrier against the passage of water and air.