

TRASPIR EVO 300

HIGHLY BREATHABLE MONOLITHIC MEMBRANE

MONOLITHIC

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

EXCEPTIONAL UV STABILITY

Extremely resistant to weathering, it passed the 10.000 hour artificial ageing test.

TEMPERATURE RESISTANCE AND DURABILITY

The polyacrylate coating and PL support make the product extremely stable and resistant to temperatures up to 150°C.

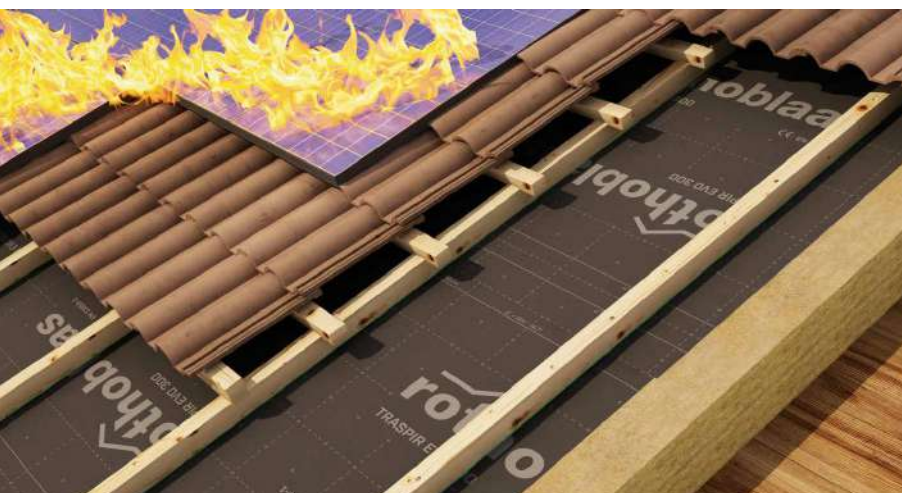


COMPOSITION

- ① top layer: monolithic breathable polyacrylate film
- ② middle layer: PL fabric

CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m ²]	H [ft]	L [ft]	A [ft ²]	
TEVO300	TRASPIR EVO 300	-	1,5	50	75	5	164	807	24
TTTEVO300	TRASPIR EVO 300 TT	TT	1,5	50	75	5	164	807	24



RELIABLE

Waterproofing and mechanical strength guaranteed even near areas permanently exposed to the sun.

SELF-EXTINGUISHING B-s1,d0

The special modified acrylic compound coupled with the polyester fabric makes the product self-extinguishing with fire reaction class B-s1,d0.

TECHNICAL DATA

Properties	standard	value	USC units
Mass per unit area	EN 1849-2	300 g/m ²	0.98 oz/ft ²
Thickness	EN 1849-2	0,5 mm	20 mil
Water vapour transmission (Sd)	EN 1931	0,04 m	87 US Perm
Tensile strength MD/CD	EN 12311-1	380/250 N/50 mm	43/29 lbf/in
Elongation MD/CD	EN 12311-1	25/25 %	-
Resistance to nail tearing MD/CD	EN 12310-1	160/190 N	36/43 lbf
Watertightness	EN 1928	class W1	-
After artificial ageing ⁽¹⁾			
- watertightness at 150°C	EN 1297/EN 1928	class W1	-
- tensile strength MD/CD	EN 1297/EN 12311-1	370/240 N/50 mm	42/27 lbf/in
- elongation	EN 1297/EN 12311-1	23/23 %	-
Reaction to fire	EN 13501-1	class B-s1,d0	-
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	-	-40/150 °C	-40/302 °F
UV resistance without final coating ⁽²⁾	EN 13859-1/2	10.000h (> 12 months)	-
UV stability with joints up to 50 mm wide exposing no more than 40% of the surface ⁽³⁾	EN 13859-1/2	permanent	-
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 600 kg/m ³	approx. 37 lbm/ft ³
Water vapour resistance factor (μ)	-	approx. 80	approx. 0.2 MNs/g
Joint strength	EN 12317-2	> 280 N/50 mm	> 32 lbf/in
VOC	-	not relevant	-
Water column	ISO 811	> 500 cm	> 197 in
Driving rain test	TU Berlin	passed	-

⁽¹⁾Ageing conditions are tested in accordance with EN 13859-2, Annex C, extended to 10.000h (standard 336h).

⁽²⁾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 24 weeks. According to DTU 31.4 (France) 10.000h of UV ageing equates to a maximum exposure period of 14 months during the construction phase.

⁽³⁾The membrane is not intended as a final waterproof layer for roofs.

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

USA and CA Properties	standard	value
Water vapour transmission (dry cup)	ASTM E96/ E96M	41.7 US Perm 2380 ng/(s·m ² ·Pa)

TRASPIR EVO 300 belongs to the same product family as TRASPIR EVO UV 210, making the results applicable to this product also.



REAL EXPOSURE AND DISASSEMBLY

During the extension of the Rothoblaas headquarters, the main façade was disassembled into modules consisting of CLT panels, insulation, TRASPIR EVO UV 210 (TRASPIR EVO 300) and the substructure of the cladding.

To evaluate the façade's functionality and potential for reuse, the watertightness and mechanical performance of TRASPIR EVO UV 210 (TRASPIR EVO 300) were tested. The tests demonstrated that after 5 years, the membrane was still perfectly intact.

TRASPIR EVO 300 belongs to the same product family as TRASPIR EVO UV 210. It is the heavier, higher-performance version, making the results applicable to this product also.

