

# TRASPIR EVO SEAL 200

BREATHABLE MONOLITHIC MEMBRANE,  
PERFORATION-PROOF



## CERTIFIED

It has passed stringent tests to be classified as a screw or nail puncture resistant membrane.

## TIME AND COST SAVING

The oversized TPU film ensures that the membrane remains waterproof even in the event of a screw or nail puncture without the need for additional products. This means that installation is quick and time-saving.

## AGEING RESISTANCE

The special functional film guarantees high durability and unaltered mechanical performance, ensuring protection and reliability.



## COMPOSITION

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



## CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
TEVO200	TRASPIR EVO SEAL 200	-	1,5	50	75	5	164	807	25
TTTEVO200	TRASPIR EVO SEAL 200 TT	TT	1,5	50	75	5	164	807	25



## MONOLITHIC FILM TPU

The modified extra-thick TPU film compared to market standards resists drilling screws and nails and provides the superior performance of a monolithic product.

## SAFE

Tested to fulfil the function of a temporary roof for up to 12 weeks with full exposure to weather.

## TECHNICAL DATA

Properties	standard	value	USC units
Mass per unit area	EN 1849-2	200 g/m <sup>2</sup>	0.66 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,7 mm	28 mil
Water vapour transmission (Sd)	EN 1931	0,08 m	43 US Perm
Tensile strength MD/CD	EN 12311-1	300/220 N/50 mm	34/25 lbf/in
Elongation MD/CD	EN 12311-1	50/70 %	-
Resistance to nail tearing MD/CD	EN 12310-1	260/340 N	58/76 lbf
Watertightness	EN 1928	class W1	-
After ageing:			
- watertightness at 120°C	EN 1297/EN 1928	class W1	-
- tensile strength MD/CD	EN 1297/EN 12311-1	270/200 N/50 mm	31/23 lbf/in
- elongation	EN 1297/EN 12311-1	25/35 %	-
Reaction to fire	EN 13501-1	class E	-
Resistance to penetration of air	EN 12114	< 0,02 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F
Resistance to temperature	-	-40/120 °C	-40/248 °F
UV stability <sup>(1)</sup>	EN 13859-1/2	1000h (8 months)	-
Thermal conductivity (λ)	-	0,04 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 285 kg/m <sup>3</sup>	approx. 18 lbm/ft <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 114	0.4 MNs/g
VOC	-	not relevant	-
Water column	ISO 811	600 cm	236 in
Driving rain test	TU Berlin	passed	-
Nail puncture test	ÖNORM B3647	passed	-

<sup>(1)</sup>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 12 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.

USA and CA Properties	standard	value
Water vapour transmission (dry cup)	ASTM E96/ E96M	26.1 US Perm 1490 ng/(s·m <sup>2</sup> ·Pa)
Water vapour transmission (wet cup)	ASTM E96/ E96M	41.0 US Perm 2340 ng/(s·m <sup>2</sup> ·Pa)
Sealability around the nail	ASTM D1970	passed
Surface burning characteristics	ASTM E84	CLASS A

## NAIL SEALING

TRASPIR EVO SEAL 200 is highly effective for sealing screws and nails. The product has been tested in accordance with EAD 030218-00-0402 and its performance declared in ETA (European Technical Assessment).

CONDITIONS:



rainfall 2 l/m<sup>2</sup> per minute



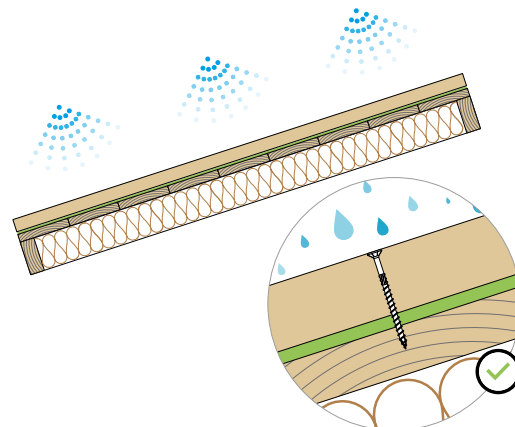
wind pressure 450 Pa



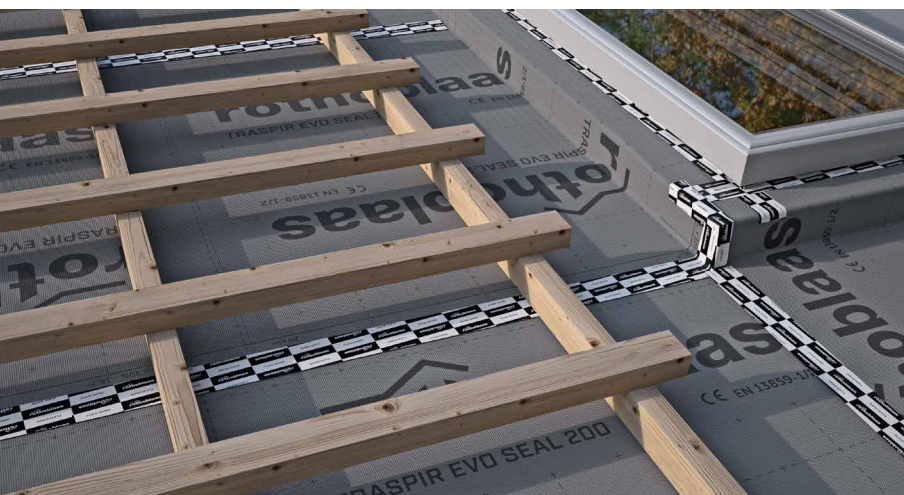
minimum roof slope: 14°



**no additional materials are required to seal screws or nails if applied on a rigid support and upper batten**



However, the product requires appropriate sealing at transverse and butt joints (p. 284). The integrity of the product must always be guaranteed: any cracks or damaged areas of the membrane must always be repaired.



## ABRASION RESISTANT AND DURABLE

The special compound guarantees high weather resistance and excellent durability in all weather conditions, also thanks to the special protective layer.