

# TRASPIR EVO SEAL 200

BREATHABLE MONOLITHIC MEMBRANE,  
PERFORATION-PROOF

## CERTIFIED

It has passed stringent tests to be classified as a screw, staple 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

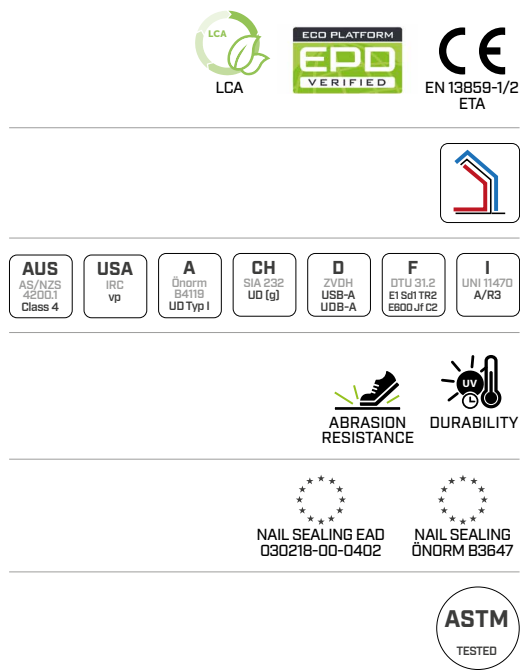
The special functional film guarantees high durability and unaltered mechanical performance, ensuring protection and reliability.

## 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<br>[m] | L<br>[m] | A<br>[m <sup>2</sup> ] | H<br>[ft] | L<br>[ft] | A<br>[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<br>1490 ng/(s·m <sup>2</sup> ·Pa) |
| Water vapour transmission (wet cup) | ASTM E96/ E96M | 41.0 US Perm<br>2340 ng/(s·m <sup>2</sup> ·Pa) |



## 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:



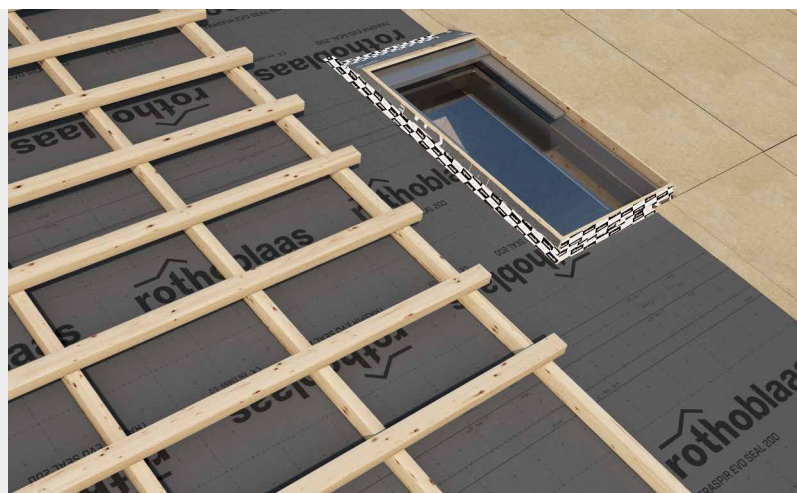
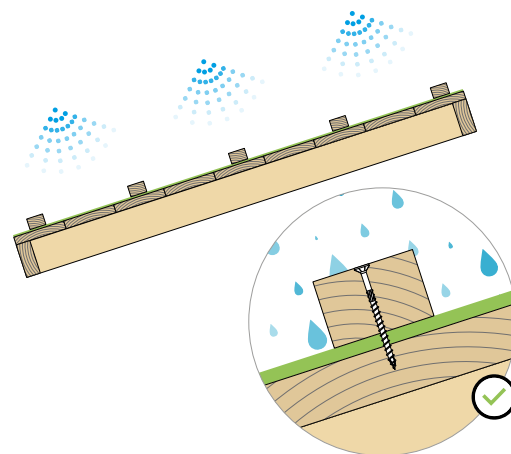
rainfall 2 l/m<sup>2</sup>



wind pressure 450 Pa



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



## 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.