

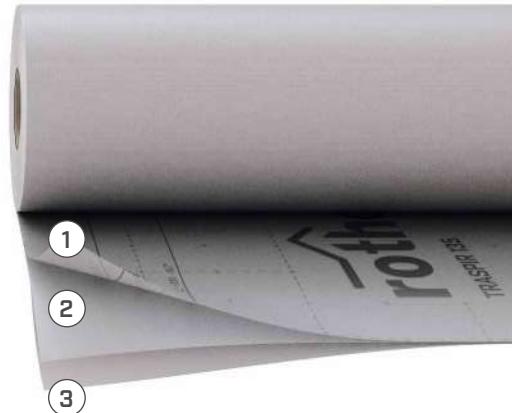
# TRASPIR 135

## HIGHLY BREATHABLE MEMBRANE



### COMPOSITION

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



### TECHNICAL DATA

Properties	standard	value	USC units
Mass per unit area	EN 1849-2	135 g/m <sup>2</sup>	0.44 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0,6 mm	24 mil
Water vapour transmission (Sd)	EN 1931	0,02 m	175 US Perm
Tensile strength MD/CD	EN 12311-1	280/190 N/50 mm	32/22 lbf/in
Elongation MD/CD	EN 12311-1	70/110 %	-
Resistance to nail tearing MD/CD	EN 12310-1	135/170 N	30/38 lbf
Watertightness	EN 1928	class W1	-
After ageing:			
- watertightness	EN 1297/EN 1928	class W1	-
- tensile strength MD/CD	EN 1297/EN 12311-1	250/160 N/50 mm	29/18 lbf/in
- elongation	EN 1297/EN 12311-1	50/50 %	-
Reaction to fire	EN 13501-1	class E	-
Resistance to penetration of air	EN 12114	< 0,05 m <sup>3</sup> /(m <sup>2</sup> ·h·50Pa)	< 0.003 cfm/ft <sup>2</sup> at 50Pa
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F
Resistance to temperature	-	-40/80 °C	-40/176 °F
UV stability <sup>(1)</sup>	EN 13859-1/2	336h (3 months)	-
Thermal conductivity ( $\lambda$ )	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 225 kg/m <sup>3</sup>	approx. 14 lbm/ft <sup>3</sup>
Water vapour resistance factor ( $\mu$ )	-	approx. 33	approx. 0.1 MNs/g
VOC	-	not relevant	-
Water column	ISO 811	> 250 cm	> 98 in

<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 2 weeks.

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

USA and CA Properties	standard	value
Water vapour transmission (dry cup) <sup>(2)</sup>	ASTM E96/E96M	125 US Perm 7115 ng/(s·m <sup>2</sup> ·Pa)
Surface burning characteristics	ASTM E84	class 1 or class A
Flame spread index (FSI)	ASTM E84	20
Smoke Developed Index (SDI)	ASTM E84	90

<sup>(2)</sup>TRASPIR 135 belongs to the same product family as TRASPIR 150, making the results applicable to this product also.

### CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
T135	TRASPIR 135	-	1,5	50	75	5	164	807	36
TTT135	TRASPIR 135 TT	TT	1,5	50	75	5	164	807	36