TRASPIR HOUSE MONO 160

EPD LCA EN 13859-1/2

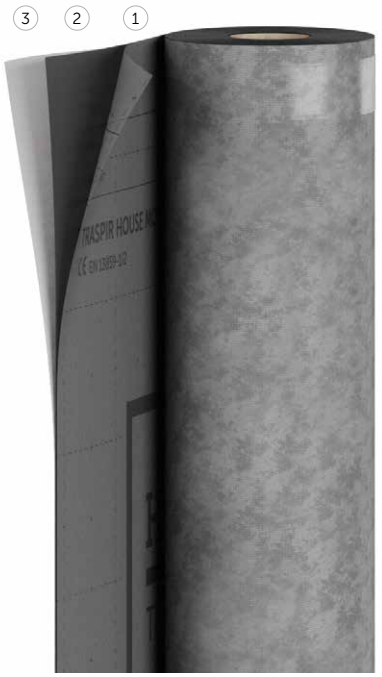
HIGHLY BREATHABLE MONOLITHIC MEMBRANE

A Önorm B4119 UD Typ I | CH SIA 232 UD (wU) | D ZVDH USB-A UDB-A | F DTU 31.2 E1 Sd1 TR1 E600 Jf C2 | I UNI 11470 B/R2 | AUS AS/NZS 4200.1 Class 4 | USA IRC vp

- It passed the artificial ageing test involving exposure to UV light for 1000 hours (standard test: 336 hours), demonstrating high durability over time
- It is one of the products for which the voluntary EPD and LCA environmental declarations have been developed
- Fire reaction B-s1,d2, for superior safety in case of fire

B-s1,d2 | AS1530.2 index 1 | IN/OUT

CODE	tape	H [m]	L [m]	A [m²]	pcs
TRASPHMTT160	TT	1,5	50	75	30



COMPOSITION

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

TECHNICAL DATA

properties	standard	value
mass per unit area	EN 1849-2	160 g/m²
thickness	EN 1849-2	0,5 mm
water vapour transmission (Sd)	EN 1931	0,1 m
water vapour transmission (dry cup)	ASTM E96/ E96M	12.3 US perm
		702 ng/(s·m²·Pa)
MD/CD tensile strength	EN 12311-1	280 / 220 N/50mm
MD/CD elongation	EN 12311-1	50 / 60 %
resistance to nail tearing MD/CD	EN 12310-1	180 / 200 N
watertightness	EN 1928	class W1
thermal resistance	-	-40 / 100 °C
reaction to fire	EN 13501-1	class B-s1,d2
flammability index	AS 1530.2	1
resistance to penetration of air	EN 12114	< 0,02 m³/(m²h50Pa)
thermal conductivity (λ)	-	0,4 W/(m·K)
specific heat	-	1800 J/(kg·K)
density	-	approx. 370 kg/m³
water vapour resistance factor (μ)	-	approx. 160
joint strength	EN 12317-2	> 200 N/50mm
VOC content	-	0 %
UV stability	EN 13859-1/2	6 months
exposure to weather	-	6 weeks
water column	ISO 811	> 500 cm
after artificial ageing:		
- watertightness	EN 1297 / EN 1928	class W1
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	260 / 200 N/50mm
- elongation	EN 1297 / EN 12311-1	40 / 50 %
flexibility at low temperatures	EN 1109	-40 °C
driving rain test	TU Berlin	passed