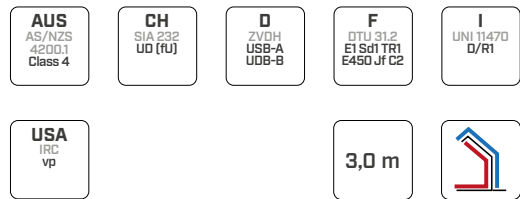


TRASPIR 110

HIGHLY BREATHABLE MEMBRANE



COMPOSITION

top layer
non-woven PP fabric

middle layer
PP breathable film


bottom layer
non-woven PP fabric

TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	112 g/m ²	0.37 oz/ft ²
Thickness	EN 1849-2	0,4 mm	16 mil
Water vapour transmission (Sd)	EN 1931	0,03 m	-
Water vapour transmission (dry cup)	ASTM E96/ E96M	101 US perm 5810 ng/(s·m ² ·Pa)	-
Maximum tensile force MD/CD	EN 12311-1	250 / 165 N/50mm	29 / 19 lb/in
Tensile strength	ASTM D828	4,67 N/mm	-
Elongation MD/CD	EN 12311-1	50 / 70 %	-
Resistance to nail tearing MD/CD	EN 12310-1	115 / 135 N	26 / 30 lbf
Watertightness	EN 1928	class W1	-
Water penetration of exterior walls at 300 Pa	ASTM E331	passed	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
Reaction to fire	EN 13501-1	class E	-
Resistance to penetration of air	EN 12114	< 0,02 m ³ /(m ² h50Pa)	< 0.001 cfm/ft ² at 50Pa
Air barrier	ASTM E2178	passed	-
Air barrier (before and after aging)	CAN/ULC-S741	passed	-
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 264 kg/m ³	approx. 0.15 oz/in ³
Water vapour resistance factor (μ)	-	approx. 50	approx. 0.15 MNs/g
VOC content	-	0 %	-
UV stability ⁽¹⁾	EN 13859-1/2	3 months	-
Exposure to weather ⁽¹⁾	-	2 weeks	-
Water column	ISO 811	> 280 cm	> 110 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	220 / 145 N/50mm	25 / 17 lb/in
- elongation	EN 1297 / EN 12311-1	40 / 60 %	-
Flexibility at low temperatures	EN 1109	-30 °C	-22 °F
Pliability	CAN2-51.32-M77 §5.2	passed	-
Driving rain test	TU Berlin	passed	-

⁽¹⁾ For the correlation between laboratory tests and actual conditions, see page 199

CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m ²]	[ft]	[ft]	[ft ²]	
T110	TRASPIR 110	-	1,5	50	75	5	164	807	36
T11030	TRASPIR 110 3,0 m	-	3	50	150	10	164	1615	36