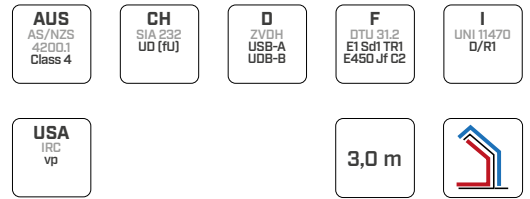


TRASPIR 110

HIGHLY BREATHABLE MEMBRANE



COMPOSITION

top layer
non-woven PP fabric

middle layer
PP breathable film

bottom layer
non-woven PP fabric

TECHNICAL DATA

EU 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	-
Maximum tensile force MD/CD	EN 12311-1	250 / 165 N/50mm	29 / 19 lb/in
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	-
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
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft ² ·°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
Driving rain test	TU Berlin	passed	-

⁽¹⁾ For the correlation between laboratory tests and actual conditions, see page 199 of "TAPES, SEALANTS AND MEMBRANES" catalogue.

USA and CA Properties	standard	value
Water vapour transmission (dry cup)	ASTM E96/ E96M CAN2-51.32-M77	101 US perm 5810 ng/(s·m ² ·Pa)
Air barrier	ASTM E2178	passed
Air barrier (before and after aging)	CAN/ULC-S741	passed
Pliability	CAN2-51.32-M77	passed
Water penetration of exterior walls at 300 Pa	ASTM E331	passed
Tensile strength	ASTM D828	4,67 N/mm

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