TRASPIR EVO UV 115

HIGHLY BREATHABLE MONOLITHIC MEMBRANE RESISTANT TO UV RAYS

LCA

EN 13859-2

USA IRC vp

AUS AS/NZS 4200.1 Class 4

F DTU 31.2 E450 J0 C3

B-s1,d0

SAFETY

High watertightness and excellent weather resistance thanks to the special extruded mix.

B-s1,d0

Flame retardant certification, Euroclass reaction to fire B-s1, d0 based on EN 13501-1.

PERMANENT UV STABILITY

Permanent resistance to UV rays with exposure with open joints up to 30 mm wide, and with up to 20% of the surface uncovered.

COMPOSITION

top layer
highly UV-stable PP non-woven fabric

bottom layer
breathable monolithic PU film

CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m²]	*H [ft]*	*L [ft]*	*A [ft²]*	
TUV115	TRASPIR EVO UV 115	-	1,5	50	75	*5*	*164*	*807*	36

UV STABILITY

The special monolithic compound ensures high UV stability even with open-joint façades.

NON-FLAMMABLE

Thanks to the special chemical composition that is flame retardant, it is suitable for applications on facades in direct contact with the ventilation chamber, or in cases in which the product is visible in internal environments.

TECHNICAL DATA

Properties	standard	value	*USC conversion*
Mass per unit area	EN 1849-2	115 g/m^2	*0.38 oz/ft^2*
Thickness	EN 1849-2	0,3 mm	*12 mil*
Water vapour transmission (Sd)	EN 1931	0,08 m	*43.706 US perm*
Maximum tensile force MD/CD	EN 12311-1	150 / 110 N/50mm	*17 / 13 lb/in*
Elongation MD/CD	EN 12311-1	90 / 90 %	-
Resistance to nail tearing MD/CD	EN 12310-1	130 / 170 N	*29 / 38 lbf*
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	*-40 / 176 °F*
Reaction to fire	EN 13501-1	class B-s1,d0	-
Resistance to penetration of air	EN 12114	0 m^3/(m^{2}h50Pa)	*0 cfm/ft^2 at 50Pa*
Thermal conductivity (λ)	-	0,3 W/(m·K)	*0.17 BTU/h·ft·°F*
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 300 kg/m^3	*approx. 0.17 oz/in^3*
Water vapour resistance factor (μ)	-	approx. 270	*approx. 0.4 MNs/g*
VOC content	-	0 %	-
UV resistance without final coating(1)	EN 13859-1/2	4 months	-
Weathering without final cladding (1)	-	8 weeks	-
UV stability with joints up to 30 mm wide exposing no more than 20% of the surface	EN 13859-2	permanent	-
Water column	ISO 811	> 500 cm	*> 197 in*
After ageing:			
- watertightness at 100°C	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	> 98 / 72 N/50mm	*> 11 / 8 lb/in*
- elongation	EN 1297 / EN 12311-1	> 59 / 59 %	-
Flexibility at low temperatures	EN 1109	-40 °C	*-40 °F*
Driving rain test	TU Berlin	passed	-

(1) Membrane subjected to artificial ageing test for 5000h (standard 336h). For correlation between laboratory tests and actual conditions, see page 199.

FIRE PROTECTION

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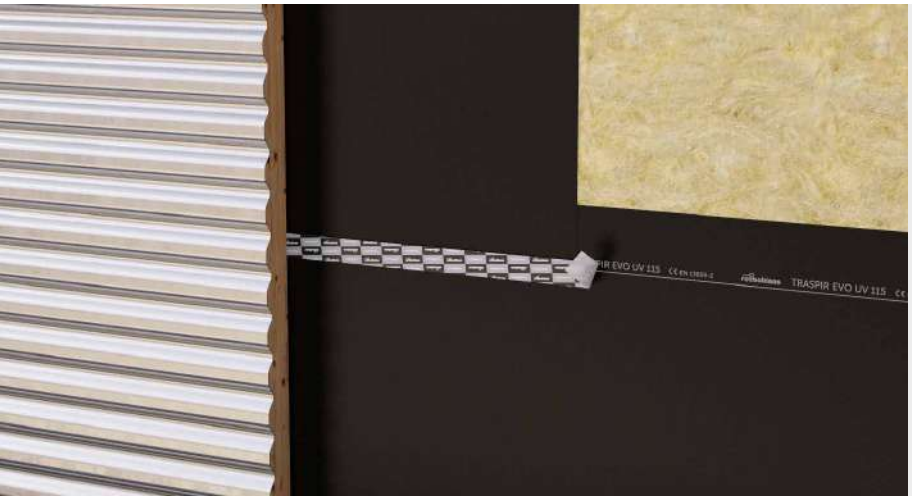

INNOVATION

The membrane features an innovative technology that allows it to be used even on metal façades with high temperature fluctuations, without compromising its performance.

TRASPIR FELT EVO UV 210

CE
EN 13859-1/2

BREATHABLE MONOLITHIC MEMBRANE RESISTANT TO UV RAYS

A Önorm B4119 UD Typ I | CH SIA 232 UD (g) | D ZVDH USB-A UDB-A | F DTU 31.2 E1 Sd1 TR2 E600 J0 C3 | I UNI 11470 A/R2

AUS AS/NZS 4200.1 Class 4 | USA IRC vp | 3,0 m | B-s1,d2

COMPOSITION

top layer
breathable monolithic PU film

reinforcing layer
PL fabric

TECHNICAL DATA

Properties	standard	value	*USC conversion*
Mass per unit area	EN 1849-2	210 g/m^2	*0.69 oz/ft^2*
Thickness	EN 1849-2	1 mm	*39 mil*
Water vapour transmission (Sd)	EN 1931	0,1 m	*34.965 US perm*
Maximum tensile force MD/CD	EN 12311-1	380 / 420 N/50mm	*43 / 48 lb/in*
Elongation MD/CD	EN 12311-1	40 / 55 %	-
Resistance to nail tearing MD/CD	EN 12310-1	220 / 210 N	*49 / 47 lbf*
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 100 °C	*-40 / 212 °F*
Reaction to fire	EN 13501-1	class B-s1,d2	-
Resistance to penetration of air	EN 12114	< 0,02 m^3/(m^{2}h50Pa)	*< 0.001 cfm/ft^2 at 50Pa*
Thermal conductivity (λ)	-	0,2 W/(m·K)	*0.12 BTU/h·ft·°F*
Specific heat	-	1300 J/(kg·K)	-
Density	-	approx. 210 kg/m^3	*approx. 0.12 oz/in^3*
Water vapour resistance factor (μ)	-	approx. 150	*approx. 0,5 MNs/g*
VOC content	-	0 %	-
UV resistance without final coating(1)	EN 13859-1/2	4 months	-
UV stability with joints up to 30 mm wide exposing no more than 30% of the surface(2)	EN 13859-1/2	permanent	-
Weathering without final cladding (1)	-	10 weeks	-
Water column	ISO 811	> 300 cm	*> 118.11024 in*
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	340 / 380 N/50mm	*39 / 43 lb/in*
- elongation	EN 1297 / EN 12311-1	35 / 50 %	-
Flexibility at low temperatures	EN 1109	-30 °C	*-22 °F*
Driving rain test	TU Berlin	passed	-

(1) Membrane subjected to artificial ageing test for 5000h (standard 336h). For correlation between laboratory tests and actual conditions, see page 199.
(2)The membrane is not suitable for standing water for long periods.

CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m^2]	*H [ft]*	*L [ft]*	*A [ft^2]*	
TUV210	TRASPIR FELT UV 210	-	1,5	50	75	*5*	*164*	*807*	16
TUV21030	TRASPIR FELT UV 210 3,0 m	-	3	50	150	*10*	*164*	*1615*	16

TRASPIR EVO UV 210

HIGHLY BREATHABLE MONOLITHIC MEMBRANE RESISTANT TO UV RAYS

LCA · EPD · TESTED · EN 13859-2

USA IRC vp · AUS AS/NZS 4200.1 Class 4 · F DTU 31.2 E600 JO C3

ASTM E84 class 1 class A · B-s1,d0

MONOLITHIC
The monolithic structure of the membrane guarantees excellent durability over time, thanks to the special polymers used.

B-s1,d0
Flame retardant certification, Euroclass reaction to fire B-s1,d0 based on EN 13501-1.

PERMANENT UV STABILITY
Permanent resistance to UV rays with exposure with open joints up to 50 mm wide, and with up to 40% of the surface uncovered.

COMPOSITION

top layer
monolithic breathable film

reinforcing layer
PL fabric

CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m²]	*H [ft]*	*L [ft]*	*A [ft²]*	
TTTUV210	TRASPIR EVO UV 210 TT	TT	1,5	50	75	*5*	*164*	*807*	24

OPEN JOINTS FAÇADE
Discontinuous coating of ventilated façades can be created, with grouting up to 5 cm wide.

EASY INSTALLATION
The polyethylene reinforcing layer gives a solid structure to the membrane, avoiding swelling during installation, and making the placing easier.

TECHNICAL DATA

Properties	standard	value	*USC conversion*
Mass per unit area	EN 1849-2	210 g/m^2	*0.69 oz/ft^2*
Thickness	EN 1849-2	0,3 mm	*12 mil*
Water vapour transmission (Sd)	EN 1931	0,04 m	-
Water vapour transmission (dry cup)	ASTM E96/ E96M	41.7 US perm 2380 ng/(s·m^2·Pa)	- -
Maximum tensile force MD/CD	EN 12311-1	300 / 200 N/50mm	*34 / 23 lb/in*
Elongation MD/CD	EN 12311-1	25 / 25 %	-
Resistance to nail tearing MD/CD	EN 12310-1	120 / 120 N	*27 / 27 lbf*
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 120 °C	*-4 / 248 °F*
Reaction to fire	EN 13501-1	class B-s1,d0	-
Surface combustion characteristic	ASTM E84	class 1 or class A	-
Resistance to penetration of air	EN 12114	< 0,03 m^3/(m^{2}h50Pa)	*< 0.002 cfm/ft^2 at 50Pa*
Thermal conductivity (λ)	-	0,3 W/(m·K)	*0.17 BTU/h·ft·°F*
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 600 kg/m^3	*approx. 0.35 oz/in^3*
Water vapour resistance factor (μ)	-	approx. 130	*approx. 0.2 MNs/g*
VOC content	-	0 %	-
UV resistance without final coating[1]	EN 13859-1/2	6 months	-
UV stability with joints up to 50 mm wide exposing no more than 40% of the surface[2]	EN 13859-1/2	permanent	-
Weathering without final cladding [1]	-	12 weeks	-
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	290 / 190 N/50mm	*33 / 22 lb/in*
- elongation	EN 1297 / EN 12311-1	20 / 20 %	-
Flexibility at low temperatures	EN 1109	-40 °C	*-40 °F*

[1] Membrane subjected to artificial ageing test for 5000h (standard 336h). For correlation between laboratory tests and actual conditions, see page 199.
[2]The membrane is not suitable for standing water for long periods.

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EXCELLENT AESTHETIC PERFORMANCE

Thanks to the mass per unit area and the polyacrylate mix, the product gurantees high thermal and dimensional stability, features that prevent swelling during installation. Finish appearance is guaranteed by the use of FRONT BAND UV 210, made with the same support, to blend in with the membrane.