TRASPIR EVO UV 210

HIGHLY BREATHABLE MONOLITHIC MEMBRANE RESISTANT TO UV RAYS

LCA

EN 13859-2

AS1530.2 index 4

ASTM E84 class 1 class A

B-s1,d0

USA IRC vp

AUS AS/NZS 4200.1 Class 4

F DTU 31.2 E800 J0 C3

TOP QUALITY

OPEN JOINT 10000h UV

DURABILITY

ASTM TESTED

MONOLITHIC

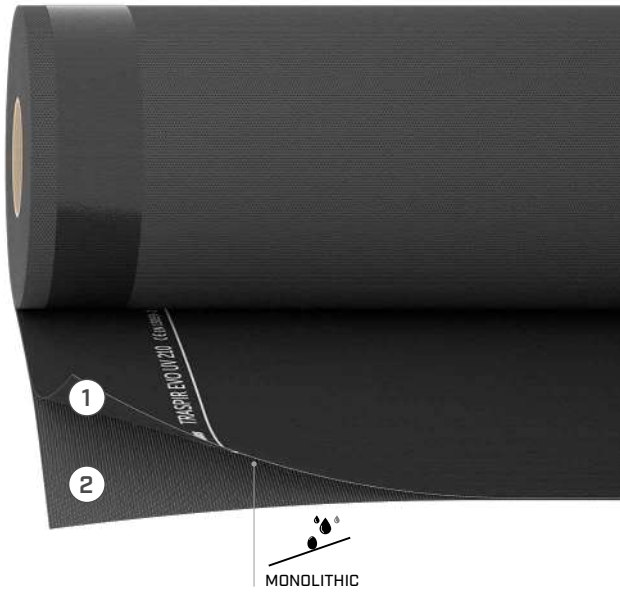
The polyacrylate coating and PL support make the membrane extremely stable and resistant to high temperatures, ensuring excellent durability over time.

B-s1,d0

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

PERMANENT AND 10.000 HOUR 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. It passed the 10.000 hour artificial ageing test.



COMPOSITION

1. **top layer:** monolithic breathable polyacrylate film
2. **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

EXCELLENT AESTHETIC PERFORMANCE

Thanks to the mass per unit area and the poly-acrylate mix, the product offers high thermal and dimensional stability, preventing swelling during installation. Final appearance is guaranteed by the use of FRONT BAND UV 210, made with the same support, to finish in with the membrane.

TECHNICAL DATA

Properties	standard	value	*USC units*
Mass per unit area	EN 1849-2	210 g/m²	*0.69 oz/ft²*
Thickness	EN 1849-2	0,3 mm	*12 mil*
Water vapour transmission (Sd)	EN 1931	0,04 m	*87 US Perm*
Tensile strength MD/CD	EN 12311-1	300/200 N/50 mm	*34/23 lbf/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	-
After artificial ageing(1)			
- watertightness at 150 °C	EN 1297/EN 1928	class W1	-
- tensile strength MD/CD	EN 1297/EN 12311-1	290/190 N/50 mm	*33/22 lbf/in*
- elongation	EN 1297/EN 12311-1	20/20 %	-
Reaction to fire	EN 13501-1	class B-s1,d0	-
Resistance to penetration of air	EN 12114	< 0,02 m³/(m²h50Pa)	*< 0.001 cfm/ft² at 50Pa*
Flexibility at low temperatures	EN 1109	-40 °C	*-40 °F*
Resistance to temperature	-	-40/150 °C	*-4/302 °F*
UV resistance without final coating(2)	EN 13859-1/2	10.000h (> 12 months)	-
UV stability with joints up to 50 mm wide exposing no more than 40% of the surface(3)	EN 13859-1/2	permanent	-
Thermal conductivity (λ)	-	0,3 W/(m·K)	*0.17 BTU/h·ft·°F*
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 700 kg/m³	*approx. 44 lbm/ft³*
Water vapour resistance factor (μ)	-	approx. 130	*approx. 0.2 MNs/g*
VOC	-	not relevant	-

(1)Ageing conditions are tested in accordance with EN 13859-2, Annex C, extended to 10.000h (standard 336h).
(2)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 24 weeks. According to DTU 31.4 (France) 10.000h of UV ageing equates to a maximum exposure period of 14 months during the construction phase.
(3)The membrane is not intended as a final waterproof layer for roofs.

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

USA and CA Properties	standard	value
Water vapour transmission (dry cup)	ASTM E96/ E96M	41.7 US Perm 2380 ng/(s·m²·Pa)
Surface burning characteristics	ASTM E84	class 1 or class A
Flame spread index (FSI)	ASTM E84	5
Smoke developed index (SDI)	ASTM E84	300

AUS and NZ Properties	standard	value
Flammability index	AS 1530.2	<5(2)

(2)This product is suitable for use in BAL regions 12.5 to 40 in accordance with AS 3959. Wherever non-combustible material is required by the NCC it should be noted that this product is less than 1mm thick and has a flammability index of less than 5.

REAL EXPOSURE AND DISASSEMBLY

During the extension of the Rothoblaas headquarters, the main façade was disassembled into modules consisting of CLT panels, insulation, TRASPIR EVO UV 210 and the substructure of the cladding.
To evaluate the façade's functionality and potential for reuse, the watertightness and mechanical performance of TRASPIR EVO UV 210 were tested. The tests demonstrated that after 5 years, the membrane was still perfectly intact.

After 5 years of use

watertightness	**compliant**
tensile strength MD/CD	**338/251 N/50 mm**
elongation MD/CD	**28/31 %**