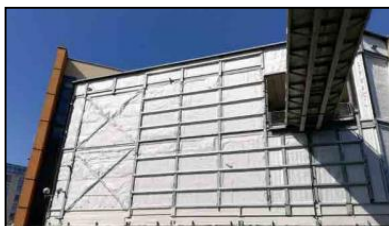
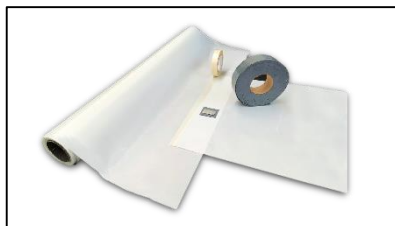


EFFISUS BREATHER FR SYSTEM



DESCRIPTION

Effisus Breather FR system is a fire rated multifunctional waterproofing vapour permeable membrane that uses an innovative technology, with a fiberglass basis, to obtain a fire reaction Class A2-s1,d0 based on EN 13501-1. The Euroclass fire classification was obtained for Effisus Breather FR membrane together with Effisus accessories (double side adhesive tapes) tested as a system.

Designed for protection of facades against moisture, driving rain and wind avoiding corrosion, insulation deterioration and mould growth on facade elements.



TECHNICAL DATA

Effisus Breather FR Membrane

Essential characteristics	Method	Result
Thickness	EN ISO 12572	0.21 ± 0.021 mm
Length	-	93.45 m
Width	-	1.07 m
Reaction to Fire	ASTM E84	Class A (or Class 1)
	EN 13501-1:2007+A1:2013 ^{a)}	A2 - s1, d0
Resistance to water penetration	EN 1928/EN 13111	W2, pass
Density of vapour flow rate, g (kg/(m2.s))	EN ISO 12572	8.31 x 10 ⁻⁶ ± 2.81 x 10 ⁻⁷
Water vapour transmission properties (sd-value) (m)	EN ISO 12572	0.013 ± 0.001
Tensile Strength MD/CD (N/50mm)	EN 12311-1	2015 ± 0.37 / 1725 ± 0.28
Elongation at Break MD/CD (%)	EN 12311-1	4.00 ± 0.38 / 3.00 ± 0.36
Nail tear resistance MD/CD (N)	EN 12310-1	328.06 ± 32.44 / 255.42 ± 46.44
Flexibility at low temperature (- 40 °C)	EN 1109	No cracks
Artificial ageing by long term exposure to the combination of UV radiation and elevated temperature and heat	Elongation ^{b)} (%)	5.0 ± 0.22 / 4.00 ± 0.32
	Tensile Strength ^{b)} (N/50mm)	2800 ± 205 / 2210 ± 209
	Resistance to water penetration ^{c)}	W2, pass

a) The fire classification was obtained with Effisus accessories (double side adhesive tapes) tested as a system.

b) In accordance with Annex C of EN 13859-2 (EN 12311-1)

c) In accordance with Annex C of EN 13859-2 (EN 1928/EN 13111)



EN 13859-2

Version

V 2.0 – MC – 10/03/2020

ACCESSORIES:

Effisus Breather FR System achieved a fire reaction Class A2-s1,d0 as a system with Effisus accessories (double side adhesive tapes).

Effisus 2Bond DS Tape

Double side self-sealing adhesive tape creating a permanent weatherproofing seal between two or more substrates. Designed to seal membrane end laps and based on product characteristics ensures an effective sealant on membranes nail/screw perforations.

TECHNICAL DATA	
Elongation	> 500% ± 100
Standard roll sizes	25mm x 15,25 lm
	50mm x 15.25 lm
Temperature resistance	-57°C to >+93°C
Total thickness	1.54mm
Water vapour test (ASTM 96B)	0.005 g/254cm ² /24hrs/37°C
Shear resistance EN 12317-2^{d)}	> 73 (N/50 mm)
Elongation at Break EN 12317-2^{e)}	15 mm
Application temperature	66°C to -29°C ambient

d) Results obtained based on shear resistance test standard EN 12317-2 between the Effisus 2Bond DS tape and the Effisus Breather FR membrane; e) Results obtained based on testing data from shear resistance test standard EN 12317-2 between the Effisus 2Bond DS tape and the Effisus Breather FR membrane.

Effisus 2Adjoin DF Tape

Double sided airtight and moisture resistant sealing tape suitable for Effisus Breather FR membrane overlaps and fixing Effisus Breather FR to a standard sheathing board.

TECHNICAL DATA	
Temperature resistance	-40°C to 90°C
Standard roll size	2.5cm x 20.0m
Shear resistance EN 12317-2^{f)}	327 (N/50 mm)
T-Peel EN 12316-2^{f)}	47 (N/50 mm)

d) Results obtained based on shear resistance test standard EN 12317-2 and T-peel test standard EN12316-2 of Effisus Breather FR membrane joint and Effisus 2Adjoin DF tape.

RELATED PRODUCTS:

Effisus Setup PR Cleaner
 Effisus Coat NP Primer
 Effisus Coat SP Primer