

TECHNICAL DATA SHEET

EFFISIUS BREATHER FR UV SYSTEM

A2 CLASS FIRE RATED WEATHERPROOFING BREATHABLE SYSTEM

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EFFISIUS BREATHER FR UV MEMBRANE

Effisus Breather FR UV membrane was designed for protection of facades against driving rain, moisture and wind avoiding insulation deterioration, mould growth and corrosion of facade components.

It is vapour permeable and airtightness promoting efficiency and sustainability of the entire building.

Effisus Breather FR UV membrane has exceptional UV resistance ideal for perforated and open joints rainscreen cladding systems. It is suitable for application on façades with 100% permanent exposure.

The membrane system include a wide range of accessories allowing its installation on the most demanding project requirements promoting the façade efficiency.

X3 SYSTEM POSSIBILITIES

Effisus 2Bond DS Tape

Function

Perimeter sealing; sealing nail/screw perforations



Substrates compatibility

Concrete or similar porous surfaces; Aluminum; Gypsum Sheathing Board, Calcium Silicate Boards, Cement Basis or similar; EPDM; Roofing membrane; Gas membrane

Special notes

Accessory with elongation and with 1.54mm thickness to allow movements

Effisus 2Adjoin DF Tape

Function

Fixing and membrane overlaps



Substrates compatibility

Galvanized Studs or similar metallic smooth surface and Gypsum Sheathing Board, Calcium Silicate Boards, Cement Basis or similar

Effisus Adjoin TI

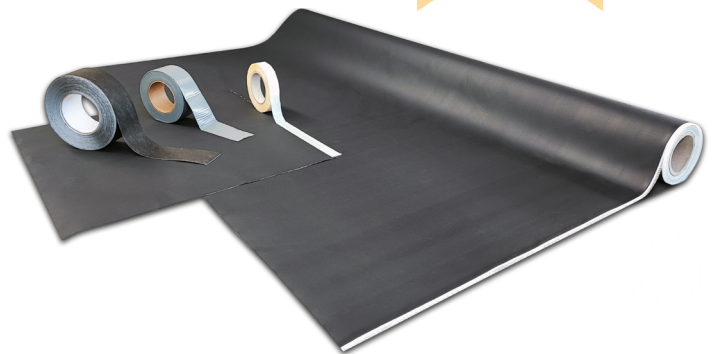
Function

Sealing membrane perforations



Substrates compatibility

Galvanized Studs or similar metallic smooth surface and Gypsum Sheathing Board, Calcium Silicate Boards, Cement Basis or similar



EFFISUS BREATHER FR UV SYSTEM

TECHNICAL DATA

Essential characteristics		METHOD	RESULT	
	Thickness	EN ISO 12572	0,230mm +- 0,020mm	
	Length	-	50 m	
	Width	-	1,50 m	
	Reaction to Fire	System	EN 13501-1	Class A2-s1, d0
		Membrane	EN 13501-1	Class A1
	Resistance to water penetration	EN 13111	W2, pass	
	Density of vapour flow rate, g (kg/(m2.s))	EN ISO 12572	2,2542x10 ⁻⁶	
	Water vapour transmission properties (sd- value) (m)	EN ISO 12572	0,094	
	Tensile Strength MD/CD (N/50mm)	EN 12311-1	4230 (min: 3840 ; max: 4620) / 3110 (min: 2735 ; max: 3485)	
	Elongation at Break MD/CD (%)	EN 12311-1	6,2 (min: 4,2; max: 8,2) / 5,2 (min: 3,1; max: 7,3)	
	Nail tear resistance MD/CD (N)	EN 12310-1	295 (min: 220; max: 370) / 385 (min: 320 ; max: 450)	
	Flexibility at low temperatures (-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)} (%)	6,2 (min: 4,2; max: 8,2) / 5,2 (min: 3,1; max: 7,3)	
		Tensile Strength ^{b)} (N/50mm)	4240 (min: 3840 ; max: 4620) / 3110 (min: 2735 ; max: 3485)	
		Resistance to water penetration ^{c)}	W2, pass	
	UV resistance	-	100% EXPOSURE	
	Temperature service range	-	-40°C to 100°C ^{d)}	

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)

d) For application below -20°C, please contact Effisus Technical Department for further Assessment.

ACCESSORIES SELECTOR

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



EFFISUS 2BOND DS
(double side tape)



EFFISUS 2ADJOIN DF
(double side tape)



EFFISUS ADJOIN TI
(adhesive tape)



Membrane Fixing

Concrete or similar porous surfaces



Aluminium Foil (insulation)



Gypsum Sheathing Board,
Calcium Silicate Boards,
Cement Basis or similar



Membrane Overlaps



Perimeter Sealing

Concrete or similar porous surfaces



Aluminium



Gypsum Sheathing Board,
Calcium Silicate Boards,
Cement Basis or similar



Perforations Sealing

Pipes



Electrical Cables



Nail/screw



● Preferred Use

EFFISUS 2BOND DS TAPE

Double-sided self-sealing adhesive tape creating a permanent weatherproofing seal on concrete, aluminium, sheathing boards and many other substrates. Specially designed to perimeter seal the membrane edges ensuring an effective sealant on membranes nail/screw perforations.

CLASS A2-s1, d0
System

- ✓ Membrane Class A1
- ✓ Fastening Accessories
- ✓ Overlaps Accessories
- ✓ Penetrations

Tested & Approved



TECHNICAL DATA

EFFISUS 2BOND DS

	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 (EN 1931)	W1
	Elongation (47N / 50 mm)	25 mm
	Application temperature	66°C to -29°C ambient

EFFISUS 2ADJOIN DF TAPE

Double-sided airtight and moisture resistant sealing tape suitable to fix the Effisus Breather FR UV membrane to aluminium SFS metal studs and Effisus Breather FR UV membrane overlaps.

CLASS A2-s1, d0 System

- ✓ Membrane Class A1
- ✓ Fastening Accessories
- ✓ Overlaps Accessories
- ✓ Penetrations

Tested & Approved



TECHNICAL DATA

EFFISUS 2ADJOIN DF



Temperature resistance

-40°C to 90°C



Standard roll size

2.5cm x 20.0 lm

Effisus Adjoin TI

Waterproofing and airtight flexible multi-purpose single side adhesive tape (acrylate based – free of solvents or softeners) suitable to seal Effisus Breather FR UV membrane perforations.

CLASS A2-s1, d0
System

- ✓ Membrane Class A1
- ✓ Fastening Accessories
- ✓ Overlaps Accessories
- ✓ Penetrations

Tested & Approved



TECHNICAL DATA

EFFISUS ADJOIN TI



Temperature resistance

-40°C to 90°C



Standard roll size

6cm x 30 m

3rd Party accreditation

IAB

Life expectancy

60 years+

Usage

Interior & Exterior