

TECHNICAL DATA SHEET

EFFISIUS VAPOUR FR SYSTEM

A1 CLASS FIRE RATED WEATHERPROOFING AIR AND VAPOUR BARRIER (AVCL)

 [View on the website](#)

EFFISIUS VAPOUR FR MEMBRANE

Effisus Vapour FR works as airtight vapour control layer (AVCL) protecting the building from condensation risk and improving the airtightness and consequently the energy efficiency.



EFFISIUS ACCESSORIES SYSTEM

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 1.54mm thickness to allow movements

Effisus Bonding KF+P Paste Adhesive

Function

Perimeter sealing; Fixing and sealing nail/screw perforations

Substrates compatibility

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



Effisus Vapour FR membrane was tested in accordance with the specifications of Indoor Air Comfort GOLD – Eurofins and fulfils the LEED v4.1, EMICODE – EC1 Plus (achieved the best classification), BREEAM International – obtained an Exemplary Level.

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Essential characteristics		TEST METHOD	RESULT	
	Thickness (mm)	-	150μ/170μ ± 15μ	
	Length (lm)	-	50	
	Width (lm)	-	1.20	
	Sd value (m)	EN 1931	> 1500	
	Reaction to fire	System	EN13501-1	Class A2-s1,d0
		Membrane	EN13501-1	Class A1
	Air Permeability (m ³ /h/m ²)	EN12114	0,002	
	Water penetration	EN 1928	W1, passed	
	Tensile Strength MD (N/50mm)	EN 12311-1	> 700; max: 890/>900	
	Tensile Strength CD (N/50mm)	EN 12311-1	> 400; max: 861/>900	
	Elongation CD (%)	EN 12311-1	> 3; max: 5	
	Elongation MD (%)	EN 12311-1	> 3; max: 5	
	Tearing resistance MD (N)	EN 12310-1	> 170; max: 176/180	
	Tearing resistance CD (N)	EN 12310-1	> 130; max: 147/160	
	Joint Strength (N/50 mm)	EN 12317-2	311	
	Artificial ageing by long term exposure	EN 1296 / EN 1931	Passed	
	Resistance to impact (mm)	EN 12691 A / EN 19691 B	1750 / 1250	
	Flexibility at low temperature	EN 1109-1	-40°C, passed	

ACCESSORIES SELECTOR

Effisus Vapour FR System achieved a fire reaction Class A2-s1,d0 as a system with Effisus accessories (double-sided adhesive tapes and paste adhesive/sealant).



EFFISUS 2BOND DS
(double-sided tape)



EFFISUS BONDING KF+P
(paste adhesive)



Membrane Fixing

Masonry, Concrete or similar porous surfaces



Galvanized Studs or similar metallic smooth surface



Aluminium



Gypsum Sheathing Board, Calcium Silicate Boards, Cement Basis or similar, Aluminium frame, Mineral Wool



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 and ensuring an effective sealing on membranes nail/screw perforations.

CLASS A2-s1, d0

- ✓ Membrane
- ✓ Fastening Accessories
- ✓ Overlaps Accessories
- ✓ Penetrations Sealing

Tested & Approved



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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
	Shear resistance EN 12317-2c)	> 77 (N/50 mm)
	Elongation at Break EN 12317-2 a)	18 mm
	Elongation (47N / 50 mm)	25 mm
	Application temperature	66°C to -29°C

a) Results obtained based on shear resistance test standard EN 12317-2 between the Effisus 2Bond DS tape and the Effisus Vapour FR membrane;

EFFISIUS BONDING KF+P ADHESIVE

It is a solvent free adhesive and sealant with exceptional properties of waterproofing and UV resistance. Without storage or transportation restrictions. Ideal for application on areas with ventilation constraints.

CLASS A2-s1, d0

- ✓ Membrane
- ✓ Fastening Accessories
- ✓ Overlaps Accessories
- ✓ Penetrations Sealing

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EFFISIUS BONDING KF+P



Base

PDMS polymer



Temperature resistance

-40°C to 160°C



Colour

Black



Density

1.2 g/cm³



Skin formation

25min

Effisus Bonding KF+P was tested in accordance with the specifications of Indoor Air Comfort GOLD –Eurofins and fulfils the LEED v4.1, EMICODE, BREEAM International – obtained an Exemplary Level.