


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.

CLASS A2-s1, d0

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

Tested & Approved

EFFISIUS
Excellence in Weatherproofing

THE ONE
AND ONLY

A1 FIRE RATED
MEMBRANES

A2 FIRE RATED
SYSTEMS

SINCE 2011

UNBEATABLE
VALUE



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

CERTIFICATIONS ON GOING



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 (m³/h/m²)	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)

Accessory	Surface	EFFISUS 2BOND DS	EFFISUS BONDING KF+P
Membrane Fixing	Masonry, Concrete or similar porous surfaces	●	●
	Galvanized Studs or similar metallic smooth surface		●
	Aluminium		●
Membrane Overlaps	Gypsum Sheathing Board, Calcium Silicate Boards, Cement Basis or similar, Aluminium frame, Mineral Wool	●	●
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.



EFFISUS 2BOND DS

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	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;

EFFISUS 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.



EFFISUS BONDING KF+P

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	Base	PDMS polymer
	Temperature resistance	-40°C to 160°C
	Colour	Black
	Density	1.2 g/cm ³
	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.