


TECHNICAL DATA SHEET

EFFISUS VAPOUR FR SYSTEM

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

 [View on the website](#)

EFFISUS 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

THE ONE AND ONLY

A1 FIRE RATED MEMBRANES

A2 FIRE RATED SYSTEMS

SINCE 2011

UNBEATABLE VALUE



EFFISUS 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 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 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)	-	0.148 ± 0.015
Length (lm)	-	50
Width (lm)	-	1.20
Sd value (m)	EN 1931	> 1500
Vapour resistance (MNs/g) ^{a)}	EN 1931	> 7500
Reaction to fire	System	EN13501-1
	Membrane	EN13501-1
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
Tensile Strength CD (N/50mm)	EN 12311-1	> 400; max: 861
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
Tearing resistance CD (N)	EN 12310-1	> 130; max: 147
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

^{a)} Vapour resistance test result considering the vapour permeability of still air, in the UK, 0.2 gm/MNS.

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 2ADJOIN DF
(double-sided tape)



EFFISUS BONDING KF+P
(paste adhesive)

Accessory	Concrete or similar porous surfaces	Galvanized Studs or similar metallic smooth surface	Aluminium
Membrane Fixing	●	●	●
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.



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 2ADJOIN DF TAPE

Double-sided airtight and moisture resistant sealing tape suitable for fixing the Effisus Vapour FR membrane to aluminium and SFS metal studs and also to seal Effisus Breather FR membrane overlaps.



EFFISUS 2ADJOIN DF

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	Temperature resistance	-40°C to 90°C
	Standard roll size	2,5cm x 20,0 lm
	Shear resistance EN 12317-2 a)	311 (N/50 mm)
	T-Peel EN 12316-2 a)	60 (N/50 mm)

a) 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.



EFFISIIS 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.



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EFFISIIS 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.