


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

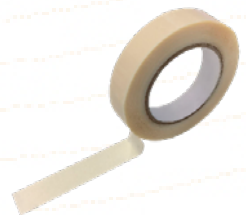
Special notes
Accessory with elongation and 1.54mm thickness to allow movements



Effisus 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



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	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	
	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)



Membrane Fixing

Concrete or similar porous surfaces ●

Galvanized Studs or similar metallic smooth surface ●

Aluminium ●



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
System

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

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 12317-2 a)	> 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.

CLASS A2-s1, d0 System





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

Tested & Approved



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EFFISUS 2ADJOIN DF

	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.