


TECHNICAL DATA SHEET

# EFFISIUS VAPOUR FR SYSTEM

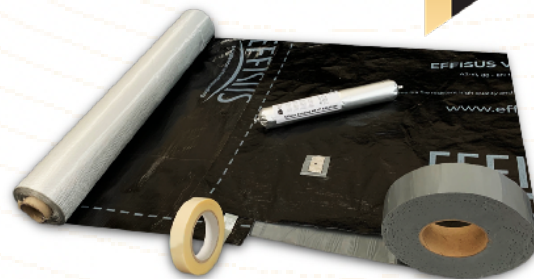
A1 CLASS FIRE RATED WEATHERPROOFING AIR AND VAPOUR BARRIER (AVCL)

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## 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.

## TECHNICAL DATA SHEET



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	<b>System</b>	EN13501-1	Class A2-s1,d0
		<b>Membrane</b>	EN13501-1	Class A1
	Air Permeability (m <sup>3</sup> /h/m <sup>2</sup> )	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  
System

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

Tested & Approved



### TECHNICAL DATA SHEET

### 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 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 System**

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

**Tested & Approved**



**TECHNICAL DATA SHEET**

**EFFISUS BONDING KF+P**



**Base**

PDMS polymer



**Temperature resistance**

-40°C to 160°C



**Colour**

Black



**Density**

1.2 g/cm<sup>3</sup>



**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.