

TECHNICAL DATA SHEET

EFFISUS BREATHER FR-B SYSTEM

B CLASS FIRE RATED WEATHERPROOFING BREATHABLE SYSTEM

 [View on the website](#)

EFFISUS BREATHER FR-B MEMBRANE

Effisus Breather FR-B Membrane is a fire retardant waterproofing breathable membrane, made of polyester nonwoven with a waterproof special coating.

Effisus Breather FR-B Membrane has exceptional UV resistance and is designed for open or closed rainscreen cladding systems, cavity and masonry, leaf weatherboarding panels, tile/slate and timber frame cladding. Suitable for facades with open joints up to 50mm and maximum up to 50% of façade area.

Protects the building against driving rain and moisture, improving façade resistance to fire and preventing future corrosion and insulation deterioration. Increases the building energy efficiency.



ACCESSORIES

Effisus 2Bond DS Tape

Function

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 with 1.54mm thickness to allow movements

Effisus Bonding KF+P

Function

Substrate fixing and perimeter sealing



Substrates compatibility

Concrete, masonry, wood, glass, coated and non-coated aluminium, steel and bitumen.

Effisus 2Adjoin DF Tape

Function

Membrane positioning



Substrates compatibility

Galvanized studs or similar metallic smooth surface and gypsum sheathing board, calcium silicate boards, cement basis or similar

Effisus Adjoin TI

Function

Membrane overlaps and perimeter sealing












Substrates compatibility

Galvanized studs or similar metallic smooth surface and gypsum sheathing board, calcium silicate boards, cement basis or similar



EFFISUS BREATHER FR-B SYSTEM

TECHNICAL DATA

| Essential characteristics | |  METHOD |  RESULT |
|---|---|--|--|
|  | Thickness | - | 0,60mm |
|  | Length | - | 50m |
|  | Width | - | 1,5m |
| | Mass per unit area | EN 1849-2 | 270 g/m ² |
|  | Reaction to Fire | EN 13501-1 | B-s1,d0 |
|  | Watertightness | EN 1928 | W1 |
|  | Sd-value | EN ISO 12572 | ≈0,02m |
|  | Water vapour transmission | EN ISO 12572 | ≈6,5x10 ⁻⁹ Kg/m ² /s/Pa |
| | μ-value | | 35 |
|  | Tensile strenght (MD/CD) | EN 12311-1 | 370/270 N/50mm |
|  | Tear resistance (MD/CD) | EN 12310-1 | 150/150 N |
| | Elongation at break | EN 12311-1 | >10% |
| | Dimensional stability | EN 1107-2 | <5% |
|  | Flexibility at low temperature (°C) | EN 1109 | -25°C |
|  | Service temperature range | | -40°C to +80°C |
| | Artificial ageing (5000h UV) | | |
| | - Tensile strenght | EN 12311-1 | 290/230 N/50mm |
| | - Watertightness | EN 1928 | W1 |
| ^{a)} | Vapour permeance (PROC A/PROC B) (Perms) | ASTM E96-05 | 204/308 |
| ^{a)} | Water vapour transmission (PROC A/PROC B) | ASTM E96-05 | 1415/2274 g/m ² /24H |
| ^{a)} | Water penetration resistance | CAN/CGSB-4.2 #26.3-956 | 103,8 cm |
| ^{a)} | Water impact penetration resistance | AATC 45-2000 | No water passing |
| ^{a)} | Reaction to fire (flame spread/smoke developed) | ASTM E84-09 | Class A |

^{a)} For more information about the american standards, please contact Effisus Technical Department.

ACCESSORIES SELECTOR

| | |  |  |  |  |
|---|--|---|--|---|---|
| | | EFFISUS 2ADJOIN DF (double side tape) | EFFISUS ADJOIN TI (adhesive tape) | EFFISUS BONDING KF+P (sealant) | EFFISUS 2BOND DS (double side tape) |
|  | Membrane Fixing / Positioning | | | | |
| | Concrete or similar porous surfaces | | | ● | |
| | Aluminium Foil (insulation) | ● | | ● | |
| | Gypsum Sheathing Board, Calcium Silicate Boards, Cement Basis or similar | ● | | ● | |
|  | 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

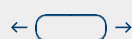
EFFISUS 2BOND DS TAPE

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 ensuring an effective sealant on membranes nail/screw perforations.



TECHNICAL DATA

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



Elongation (47N / 50 mm)

25 mm



Application temperature

66°C to -29°C ambient

EFFISUS 2ADJOIN DF TAPE

Double-sided airtight and moisture resistant sealing tape suitable to fix the Effisus Breather FR-B membrane to aluminium SFS metal studs and Effisus Breather FR-B membrane overlaps.



TECHNICAL DATA

EFFISUS 2ADJOIN DF



Temperature resistance

-40°C to 90°C



Standard roll size

2.5cm x 20.0 lm

Effisus Adjoin TI

Waterproofing and airtight flexible multi-purpose single side adhesive tape (acrylate based - free of solvents or softeners) suitable to seal Effisus Breather FR-B membrane perforations.



TECHNICAL DATA

EFFISUS ADJOIN TI



Temperature resistance

-40°C to 90°C



Standard roll size

6cm x 30 m

3rd Party accreditation

IAB

Life expectancy

60 years+

Usage

Interior & Exterior

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.



TECHNICAL DATA

EFFISUS BONDING KF+P

| | |
|------------------------|----------------------|
| Base | PDMS polymer |
| Temperature resistance | -40°C to +160°C |
| Colour | Black |
| Density | 12 g/cm ³ |
| Skin formation | 25min |

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