

OUR RANGE OF

# VAPOUR BARRIER

Innovation in moisture control for healthy,  
sustainable buildings



**SEMIN**  
**INSULATION**

# OUR RANGE OF VAPOUR BARRIER



## REGUL'VAP

SD VALUE  
**0,2 > 25 M**



## SEM'VAP

SD VALUE  
**26 M**



## FREEZE'VAP

SD VALUE  
**100 M**



### HOW A VAPOUR BARRIER WORKS:

A vapour barrier is a key part of **building construction**. It works based on two main principles: **making sure the building is airtight and controlling the movement of water vapour**.

A vapour barrier acts as a **barrier to unwanted air movement, ensuring energy efficiency, and regulates the amount of water vapour**, reducing the risk of condensation in the walls.

### The SD value

The diffusion coefficient of a vapour barrier (SD value) indicates how well a product blocks the movement of moisture. This is measured in metres, and a higher value indicates a greater permeability to moisture, which limits its ability to pass through the material.

**Water vapour permeability** is expressed by the  $\mu$  coefficient. The lower the value, the lower the resistance, i.e. the more permeable the material is to water vapour.

## REGUL'VAP

VARIABLE SD MEMBRANE (FROM 0.2 TO 25M) - MOISTURE-REGULATING



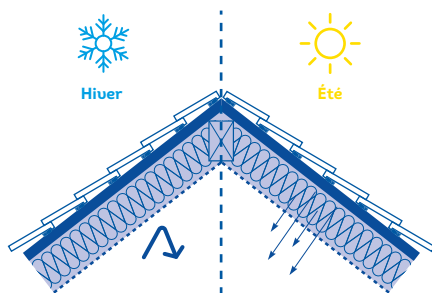
VALEUR SD  
**0,2 > 25 M**

- + ADAPTS TO SEASONAL AND CLIMATIC VARIATIONS
- + FACILITATES DRYING
- + ELIMINATES THE RISK OF CONDENSATION IN THE STRUCTURE AND THE INSULATION

This variable SD vapour barrier adapts to the changing seasons and the specific needs of summer and winter comfort.

- > Reaction to fire: E
- > MD/CMD tear resistance: >20/>40
- > Width (mm): 1500

### How the VARIABLE SD MEMBRANE works (0.2 - 25m)



**In winter, water vapour circulates from the inside to the outside.**

The molecular structure of the membrane forms a seal to eliminate the risk of condensation in the insulation.

**In summer, water vapour circulates in the opposite direction.**

As a result, the molecular structure of the membrane opens up to release water vapour, allowing the wood and internal structures to dry out.

## SEM'VAP

SD 26M VAPOUR BARRIER



SD VALUE  
**26 M**

- + CONSISTENT PERMEABILITY
- + SIMPLE AND EASY TO USE
- + HIGH LEVEL OF AIRTIGHTNESS

This two-layer complex consists of a high-strength polypropylene support membrane, combined with a polyolefin veil to reduce the diffusion of water vapour.

Exceptionally strong and airtight, it provides maximum protection for vertical walls or under sloping roofs for optimum thermal performance.

- > Max tensile strength/L/T (N/50NM): 150/130
- > Reaction to fire: E
- > L/T tear resistance (N): >80/>80
- > Width (mm): 1500

# OUR RANGE OF VAPOUR BARRIER



## FREEZE'VAP

SD 100M VAPOUR BARRIER



- ⊕ HIGH PERMEABILITY
- ⊕ HIGH SD VALUE: 100M
- ⊕ SUITABLE FOR COLD CLIMATES AND HIGH ALTITUDES

This vapour barrier is specifically designed for cold climates and high altitudes, areas prone to fluctuating temperatures, frequent rainfall and exposure to strong winds. Its strength and ability to regulate water vapour transfer provide effective protection against damp, condensation and the resulting damage to buildings and materials.

- > Reaction to fire: F
- > MD/CMD tear resistance: >100/>110
- > Width (mm): 1500

VAPOUR BARRIER	Product ref.	Width (m)	Length (lm)	Area (m <sup>2</sup> )
SEM'VAP 26M	A04623	1,5	50	75
	A12240		20	30
REGUL'VAP 0,2 > 25M	A12340	1,5	50	75
FREEZE'VAP 100M	A12341	1,5	50	75
ACCESSORIES	Product ref.	Packaging		
ADHESIVE SEALANT FOR VAPOUR BARRIERS	A10939	20 cartridges per box		
STRETCHY ADHESIVE TAPE	A10967	Single roll		
DOUBLE-SIDED ADHESIVE TAPE	A04624	16 rolls per box		
MULTI-PURPOSE ADHESIVE TAPE	A04083	8 rolls per box		

## VAPOUR BARRIER ACCESSORIES

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### DOUBLE-SIDED ACRYLIC TAPE

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Double-sided tape for bonding vapour barriers to wood and metal stud frames.



### MULTI-PURPOSE ADHESIVE TAPE

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This multi-purpose adhesive tape is used to join the edges of vapour barriers to ensure a perfectly airtight seal.



### ADHESIVE SEALANT FOR VAPOUR BARRIERS

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For bonding vapour barriers and ensuring that the outer edge of the membrane is completely airtight.



### STRETCHY ADHESIVE TAPE

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Multi-purpose stretchy tape for bonding/sealing specific areas:

- Cable conduits
- Pipework
- Ventilation ducts

# OUR INSULATION RANGE



## breff

$\lambda$  0.034  
W/(m.K)

### THERMAL AND ACOUSTIC INSULATION

MADE FROM RECYCLED AND INFINITELY RECYCLABLE PLASTIC BOTTLES

#### DESIGNED TO INSULATE

- > Masonry walls
- > Timber frame houses
- > Converted attic spaces
- > Ceilings
- > Interior partition walls
- > Low-level floors



#### PRODUCT RANGE



Rolls



Panels



MADE FROM 100% RECYCLABLE & RECYCLED PLASTIC BOTTLES



EXCELLENT ACOUSTIC PERFORMANCE



EASY TO CUT QUICK TO INSTALL



SEMI-RIGID - NO SETTLING: ELIMINATES THERMAL BRIDGES



- GENTLE  
- NON-IRRITATING  
- DUST-FREE



CAN BE STORED OUTDOORS ON A HARD SURFACE FOR UP TO 9 MONTHS



THERMAL COMFORT IN SUMMER & WINTER

## STYLE

### BLOW-IN INSULATION

MADE FROM 100% RECYCLED TEXTILE FIBRES

$\lambda$  0.044  
W/(m.K)

#### DESIGNED TO INSULATE

- > Unconverted attic floors or floors that are difficult to access
- > Plasterboard ceilings supported by wooden or metal studs in accordance with the NF DTU 25.41 standard



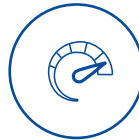
EASY TO INSTALL



IMPROVES THERMAL COMFORT AND QUALITY OF LIFE IN THE HOME



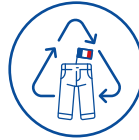
COMPATIBLE WITH ALL INSULATION BLOWING MACHINES



REDUCES INSTALLATION TIME



GUARANTEED QUALITY & SUSTAINABILITY



RESPONSIBLE & LOCALLY SOURCED

# SEMIN FLEX+

The most gentle way to insulate

High-performance & ecological wood fibre insulation

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$\lambda$  0,036 W/(m.K)

SEMIN FLEX PLUS is a wood fibre insulation **made from sawmill offcuts and wood chips.**

The wood used to make SEMIN insulation panels **comes from sustainably managed forests.** The wood fibres used in our insulation products are PEFC certified, which guarantees the preservation of forests and the sustainability of resources.

The process of coating the fibres during manufacture gives SEMIN FLEX PLUS excellent mechanical strength, making it easy to install and comfortable to use, reducing dust when cutting and handling the panels. SEMIN FLEX PLUS does not settle, thus eliminating thermal bridging and ensuring long-term, effective thermal performance.

## Scope of application:

SEMIN FLEX PLUS is designed for internal insulation in new or existing residential and non-residential buildings for the following applications:

- Under-roof insulation for converted attic spaces.
- Floor insulation in unconverted attics.
- Interior insulation for vertical walls and ceilings.

SEMIN FLEX PLUS is ideal for timber frame buildings, with panel sizes specifically designed for this type of construction.



### FOR THERMAL COMFORT ALL YEAR ROUND

- Guaranteed technical performance: the lowest thermal conductivity of any wood-based insulation: Thermal conductivity  $\lambda$  : **0.036** and a high thermal capacity/low thermal diffusivity (density: 50 kg/m<sup>3</sup>).



### EXCELLENT ACOUSTIC PERFORMANCE

- Thanks to its high density and the porous structure of its fibres, SEMIN FLEX + is also an effective soundproofing material. This considerably improves living comfort in the home.



### HIGH PERFORMANCE & SUSTAINABILITY

- **Water vapour diffusion:** SEMIN FLEX + is very open to water vapour diffusion and can temporarily store and then release moisture. This keeps the building dry and protects it from damage caused by damp and moisture.
- **Sustainability:** Our exclusive wood fibre coating technology ensures that the product does not settle and therefore eliminates thermal bridging. Its technical performance is guaranteed for 50 years.



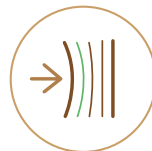
### ECOLOGICAL & RESPONSIBLE

- The material we have selected to make this product **comes from wood from tree thinning in the heart of France's** Douglas Fir forests and from sawmill offcuts.
- All of the wood fibres we use are **PEFC certified.** This certification guarantees the preservation of forests and the sustainability of resources.



### EASY TO INSTALL

- Thanks to our industrial manufacturing technologies, SEMIN FLEX + is the softest, most gentle wood insulation on the market. It reduces dust, is easy to cut and is quick and easy to install.



### EASY TO USE

- **SEMIN FLEX+** insulation panels are flexible and compressible. This makes them easy to install, especially between studs and rafters. Features that are greatly appreciated by insulation installers.

## TECHNICAL CHARACTERISTICS

- Thermal conductivity  $\lambda$  : **0.036 W/ m.K**
- Density: / 50 kg/m<sup>3</sup>
- Water vapour diffusion resistance factor: MU 3  $\mu$

- Specific heat capacity: 2 000\* J/kg.K
- Airflow resistance = AFR7 kPa.s/m<sup>2</sup>

\*In accordance with the  $\rho C$  value as defined in ISO 10456

# SEMIN

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## INSULATION



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