

SEMIN FLEX+

The softest way insulate



CERIB 13 0046

High-performance & ecological wood fibre insulation

ITI



0,036 W/(m.K)

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

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, which makes it easy to handle and install and reduces dust when cutting and handling the panels. SEMIN FLEX PLUS does not settle, thus eliminating thermal bridging and ensuring long-term and 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 attic spaces.
- Interior insulation for walls and ceilings.

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



THERMAL COMFORT ALL YEAR ROUND

• Guaranteed technical performance : the lowest thermal conductivity of any wood-based insulation: **Thermal conductivity λ : 0.036** and a high thermal capacity/low thermal diffusivity (density : 50 kg/m³)



CLEAN CUTS, LESS DUST

• Panels designed for easy and precise cutting with minimal dust. Their innovative composition guarantees a clean cut with no loss of material, ideal for small cuts and holes for fixings. SEMIN FLEX+ ensures a clean and faultless finish for each project.



ECOLOGICAL & RESPONSIBLE

• The material used to make this product **comes from wood from sawmill offcuts and tree thinning in the heart of France's Douglas Fir forests**.

• 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

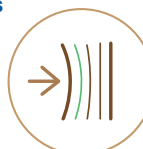
• Thanks to our industrial manufacturing technology, SEMIN FLEX + is the softest wood insulation on the market. It reduces dust, is easy to cut and is quick and easy to install.



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.



EASY TO USE

• **SEMIN FLEX+** insulation panels are flexible and compressible. This facilitates installation, especially between studs and rafters and is offers an advantage that is greatly appreciated by insulation installers.

TECHNICAL CHARACTERISTICS :

- Thermal conductivity λ : **0.036 W/ m.K**
- Density : / 50 kg/m³
- Water vapour diffusion resistance factor : MU 3 μ

- Specific heat capacity : 2 000* J/kg.K
- Airflow resistance = AFR7 kPa.s/m²

*In accordance with the pC value as defined in ISO 10456

The SEMIN FLEX + range

The different panel sizes of SEMIN FLEX + make it suitable for all construction and renovation projects.

| Refs. | Product code | Thickness (mm) | Thermal resistance R | Width (mm) | Length (mm) | Item surface area/m ² | No. of items/package | No. of m ² /package | No. of packages/pallet | No. of m ² /pallet |
|------------------------|---------------|----------------|----------------------|------------|-------------|----------------------------------|----------------------|--------------------------------|------------------------|-------------------------------|
| Metal framework | | | | | | | | | | |
| A12445 | 3585501124457 | 40 | 1.10 | 600 | 1220 | 0.73 | 15 | 10,98 | 8 | 87,84 |
| A12446 | 3585501124464 | 45 | 1.25 | 600 | 1220 | 0.73 | 13 | 9,52 | 8 | 76,13 |
| A12447 | 3585501124471 | 60 | 1.65 | 600 | 1220 | 0.73 | 10 | 7,32 | 8 | 58,56 |
| A12448 | 3585501124488 | 80 | 2.20 | 600 | 1220 | 0.73 | 7 | 5,12 | 8 | 40,99 |
| A12449 | 3585501124495 | 100 | 2.75 | 600 | 1220 | 0.73 | 6 | 4,39 | 8 | 35,14 |
| A12450 | 3585501124501 | 120 | 3.30 | 600 | 1220 | 0.73 | 5 | 3,66 | 8 | 29,28 |
| A12451 | 3585501124518 | 145 | 4 | 600 | 1220 | 0.73 | 4 | 2,93 | 8 | 23,42 |
| A12452 | 3585501124525 | 160 | 4.4 | 600 | 1220 | 0.73 | 4 | 2,93 | 8 | 23,42 |
| A12453 | 3585501124532 | 180 | 5 | 600 | 1220 | 0.73 | 3 | 2,20 | 8 | 17,57 |
| A12454 | 3585501124549 | 200 | 5.55 | 600 | 1220 | 0.73 | 3 | 2,20 | 8 | 17,57 |

| | | | | | | | | | | |
|---------------------|---------------|-----|------|-----|------|------|----|-------|---|-------|
| Timber frame | | | | | | | | | | |
| A12435 | 3585501124358 | 40 | 1.10 | 580 | 1220 | 0.71 | 15 | 10,61 | 8 | 84,91 |
| A12437 | 3585501124372 | 60 | 1.65 | 580 | 1220 | 0.71 | 10 | 7,08 | 8 | 56,61 |
| A12438 | 3585501124389 | 80 | 2.20 | 580 | 1220 | 0.71 | 7 | 4,95 | 8 | 39,63 |
| A12439 | 3585501124396 | 100 | 2.75 | 580 | 1220 | 0.71 | 6 | 4,25 | 8 | 33,96 |
| A12440 | 3585501124402 | 120 | 3.30 | 580 | 1220 | 0.71 | 5 | 3,54 | 8 | 28,30 |
| A12441 | 3585501124419 | 145 | 4 | 565 | 1220 | 0.69 | 4 | 2,76 | 8 | 22,06 |
| A12442 | 3585501124426 | 160 | 4.4 | 565 | 1220 | 0.69 | 4 | 2,76 | 8 | 22,06 |
| A12443 | 3585501124433 | 180 | 5 | 565 | 1220 | 0.69 | 3 | 2,07 | 8 | 16,54 |
| A12444 | 3585501124440 | 200 | 5.55 | 565 | 1220 | 0.69 | 3 | 2,07 | 8 | 16,54 |

Certifications 



TECHNICAL APPRAISALS :
Application to walls : 20/24-536_V1
Applications to roof spaces : 20/24-538_V1



CERTIFICATE :
N° 24/275/1672



Anti-fungal



Reaction to fire : E

