

# 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  $\lambda$  : 0.036** and a high thermal capacity/low thermal diffusivity (density : 50 kg/m<sup>3</sup>)



### 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  $\lambda$  : **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 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 <sup>2</sup>	No. of items/package	No. of m <sup>2</sup> /package	No. of packages/pallet	No. of m <sup>2</sup> /pallet
<b>Metal framework</b>										
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

<b>Timber frame</b>										
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 : 20/24-538\_V2  
Applications to roof spaces : 20/24-536\_V2



CERTIFICATE :  
N° 24/275/1672



Anti-fungal



Reaction to fire : E

