

Savolit

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SAVOLIT WOOD WOOL BOARDS

The composition and performance of Savolit boards makes them ideal for many different applications in building construction with their surface providing an excellent mechanical key for direct plastering or rendering. Manufactured in accordance with European Standard EN 13168.

APPLICATIONS

- External cladding of timber frame walls
- Internal lining of timber frame walls
- Base Board for plastered ceilings and walls
- Internal partition walls
- Carrier board for render

COMPOSITION



Savolit wood wool boards consist of long wood fibres, stabilised by chemical impregnation and bound by cement-binding agent into a compact coherent structure. The mineralisation process strongly increases the fire resistance of wood wool. The composition and performance of the boards make them ideal for many different applications in building constructions. Produced in

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accordance to standard EN 13168 (FIW München).

Savolit boards are manufactured from 100% FSC certified wood.



DIMENSIONS

SAVOLIT	15	25	35	50	75
Board size	2000 × 500mm = 1m ²				
Board thickness (mm)	15	25	35	50	75
Average specific mass (kg/m ²)	8.5	11.5	14.5	19.5	28.0
Pallet quantity (m ²)	110	80	60	40	28

ECOLOGICAL & HEALTH ASPECTS

- Many sustainable benefits
- Boards are made of natural materials
- No waste disposal problem
- Ideal for buildings comfortable for people sensitive to allergies
- Recommended for healthy living environments
- No harmful gases or vapours given off
- No toxic fumes if burned
- Diffusion permeable
- Hygroscopic - levels out humidity level changes
- Naturally resistant to fungus and insects

TECHNICAL ADVANTAGES

- Durable
- Non flammable and self extinguishing
- Thermally insulating
- Compatible with all normal construction materials
- High compression resistance and flexural strength
- Stable
- Surface offers good mechanical key for renders and plasters
- Sound absorbing and noise insulating
- Vapour permeable
- Easy and safe to handle, cut and work
- Proven performance in over 80 years in all climates

TECHNICAL DATA

Property	Designation	Units	Data					Standard
Board thickness	d	mm	15	25	35	50	75	
Board length	l	mm	2000					
Board width	b	mm	500					
Declared thermal conductivity	λ _D	W/mK	0.074					
Declared thermal resistance	R _D	m ² K/W	0.20	0.30	0.45	0.65	1.00	EN 13168

Compressive strength at 10% deformation	s10	kPa	= 30	EN 826
Tensile strength perpendicular to faces	smt	kPa	= 15	EN 1607
Diffusion resistance coefficient	μ	-	3 - 5	EN 12086
Fire rating			B - s1, d0	EN 13501-1

Dimension tolerances: Slight differences from format cannot be excluded due to the organic nature of wood.

Final shrinkage in a standard temperature 23°C and 50% humidity of ± 3 %

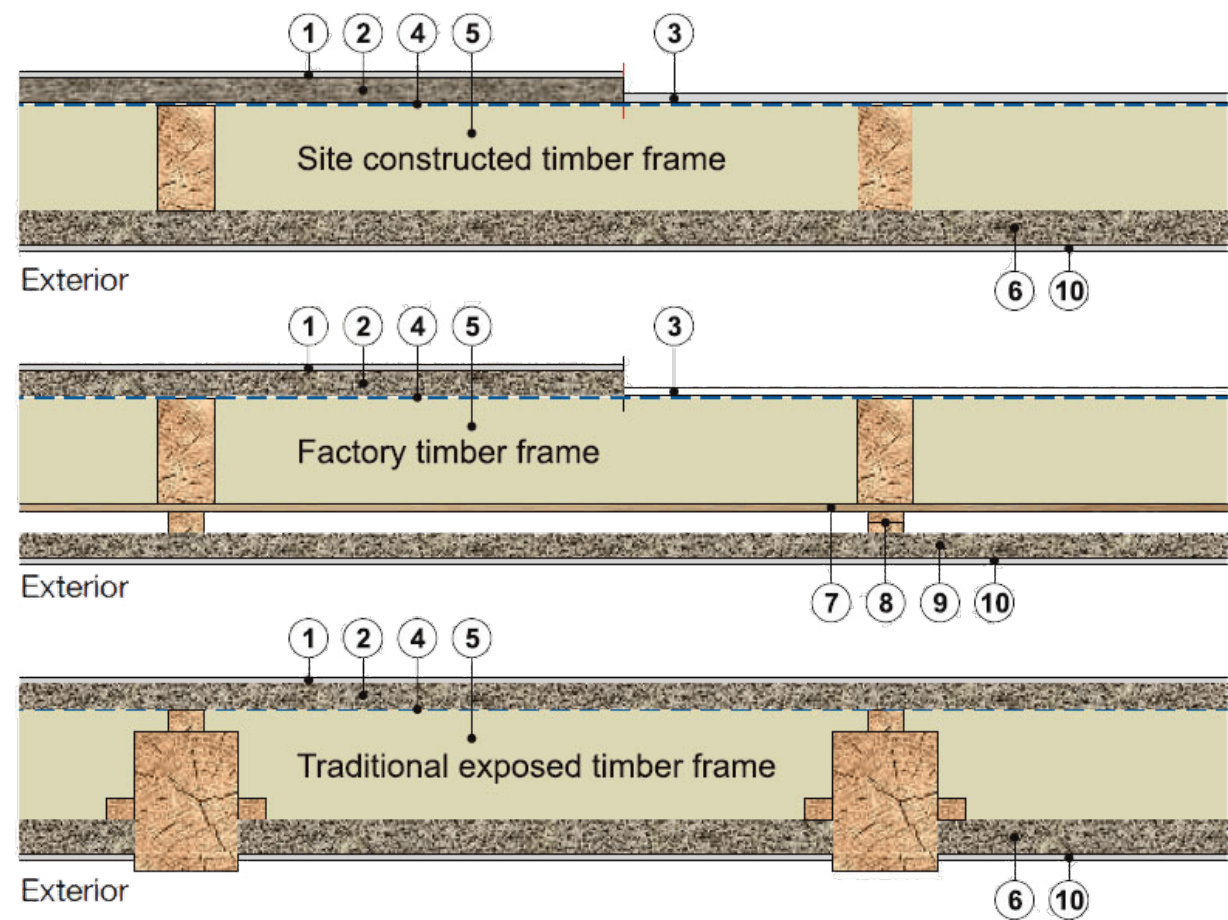
Tolerances according to EN 13168: Length +3 /-5mm; width ±3mm; thickness ±3mm.

Store panels in a dry, level place, not directly on the ground and protect from moisture and dust. The packing provided does not provide protection from rain!

Do not stack more than two pallets on top of each other.

DESIGN

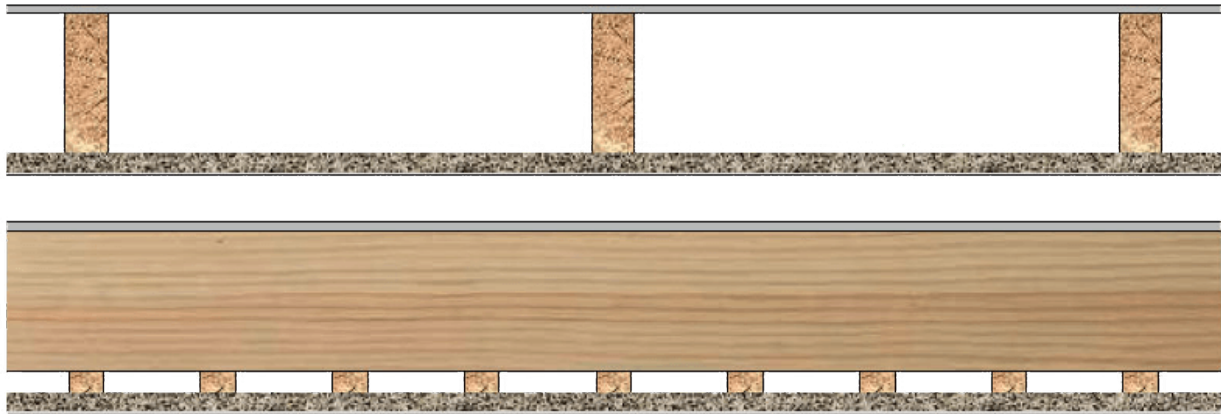
FRAME WALL & CEILING CONSTRUCTIONS



1. Interior plaster glass fibre mesh
2. SAVOLIT board 25 or 35 mm
3. Plasterboard (alternative)

4. Vapour check

5. Frame construction and insulation
6. SAVOLIT board 50 mm
7. Sheathing board
8. Battens (vent cavity)
9. SAVOLIT board 25 or 35 mm
10. Exterior render with glass fibre mesh

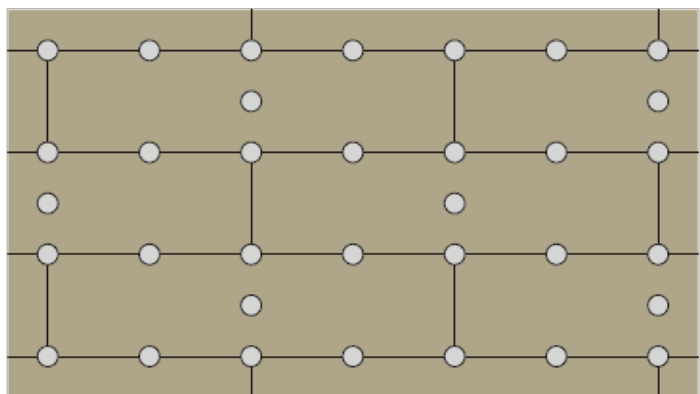
INTERIOR WALL AND CEILING APPLICATIONS

SAVOLIT 25 mm either direct fixed to joists (studs) or via supporting battens.
Lime or gypsum plaster with glass fibre mesh.

INSTALLATION**INSTALLATION**

SAVOLIT wood wool boards are installed in a broken bond pattern and fastened to timber structures with wood screws and washers positioned as shown in the following diagrams.

Mechanically fixed with
Ø5 mm screws and
Ø50 mm washers;
minimum 6 screws/m².

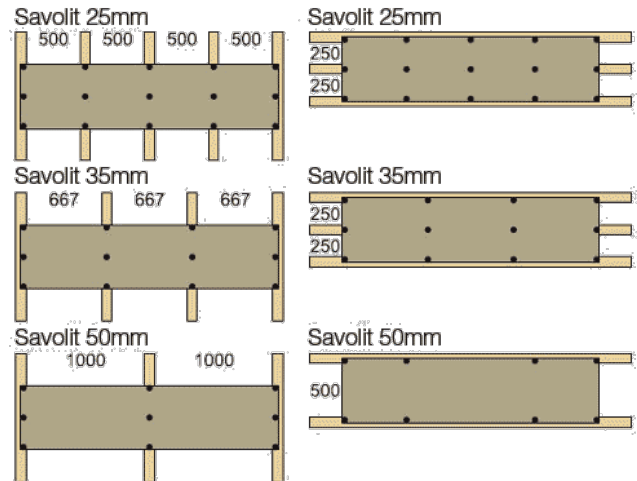


Mechanically fixed with screws and 20mm washers.
Min. distance from board edges: 20mm

Board		screw (length, diameter)
15mm	-	min. 45mm, Ø4
25mm	-	min. 50mm, Ø4
35mm	-	min. 70mm, Ø5
50mm	-	min. 90mm, Ø5

Minimum Fixings per m2

25mm board - 15 min. Screws / m2
35mm board - 12 min. Screws / m2
50mm board - 9 min. Screws / m2

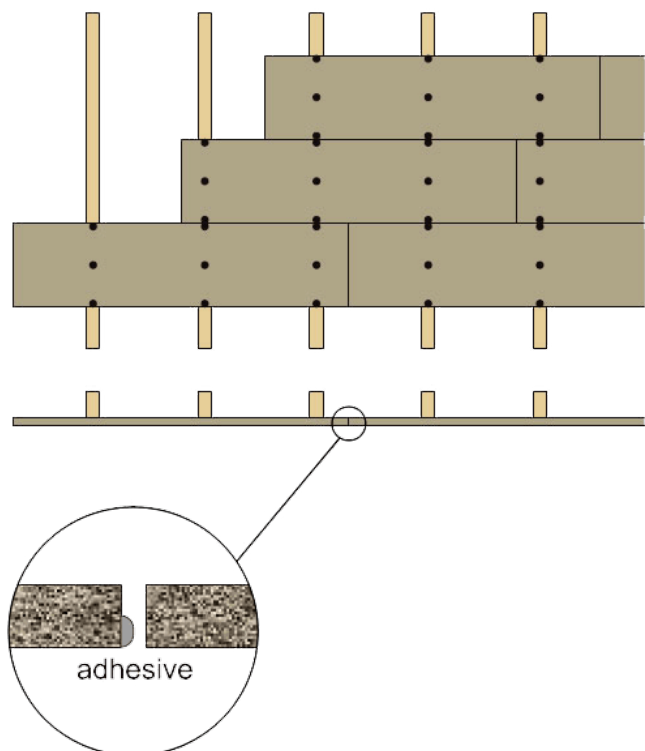


EDGE BONDING

If boards are fully edge bonded one to another it is not then necessary for board ends to occur at supports and allowing increased spans as follows:

Board thickness 25mm
Maximum span 666mm
Board thickness 35, 50mm
Maximum span 1000 mm

SAVOLIT boards 25, 35 and 50mm thick are fully edge bonded with a bead of Savolit C84 adhesive.



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