



STEICO

Building systems and wood fibre insulation



* Storage refers to CO₂ equivalent in life cycle phase A1 according to EN 15804+A2

Bio-based building products
made from renewable raw materials

STEICO – engineered by nature

Whether it's thermal insulation, rigid wood fibre boards, rain-proofing, or load-bearing components, the bio-based STEICO building system can be used to create almost the entire building envelope.



STEICO building products for almost every building project

In roofs, ceilings, walls and floors, STEICO products strive to provide lasting and energy-efficient cosiness, healthy living and safety – tried and tested over decades in hundreds of thousands of buildings worldwide.

For the production of our building materials, we source fresh softwood regionally from sustainably managed forests around the STEICO plants, certified according to PEFC standards. Our production facilities use biomass to generate heat and steam in a forward-thinking way.

Insulate with wood fibre

Climate change is making our summers warmer and warmer, and an increasing amount of energy is required to cool buildings. Insulation is particularly energy-efficient when it works all year round.

STEICO wood fibre insulation materials are characterised by low thermal conductivity and high heat storage capacity. This contributes to protecting the interior from summer heat while retaining warmth and minimizing energy loss during the winter months.

Some more advantages: STEICO wood fibre insulation materials are 'diffusion open' and can help to protect against structural damages caused by moisture. They also contribute to noise reduction for quieter, less stressful living conditions.



Heat protection



Cold protection



Diffusion open



Noise protection

Innovative load-bearing structures

Developed using nature as an inspiration, STEICO I-joists and STEICO laminated veneer lumber (LVL) combine high load-bearing capacity and stability. With their lightweight design and efficient material use, STEICO joists make it possible to construct buildings that are optimized for both resource efficiency and energy performance.

STEICO **LVL** is used where higher loads have to be supported. The limited self-weight combined with its high load-bearing capacity enable pioneering construction systems.

STEICO – a reliable choice

The independent *Institut für Baubiologie Rosenheim GmbH* (IBR) labels healthy living and environmentally friendly building products with its test seal for consumers. Certified STEICO products bear this recognised quality mark for a healthy living environment.

Finally, STEICO wood fibre insulation materials are certified on a voluntary basis by an independent institute according to Keymark certification. All product properties listed in the declaration of performance (DOP) are tested.

The STEICO building system for renovation and new build

Product groups

① Compartment insulation

- Flexible insulation batts
- Air injected insulation



② Roof insulation systems

- Sarking boards
- Roof insulation
- Flat roof insulation



③ Facade insulation systems

External wall insulation

- In timber frame construction
- For solid timber walls
- For rendered facades and cladding systems



④ Interior insulation systems

- Internal wall insulation, dry construction
- Attic floors
- Floor systems, installation underlays



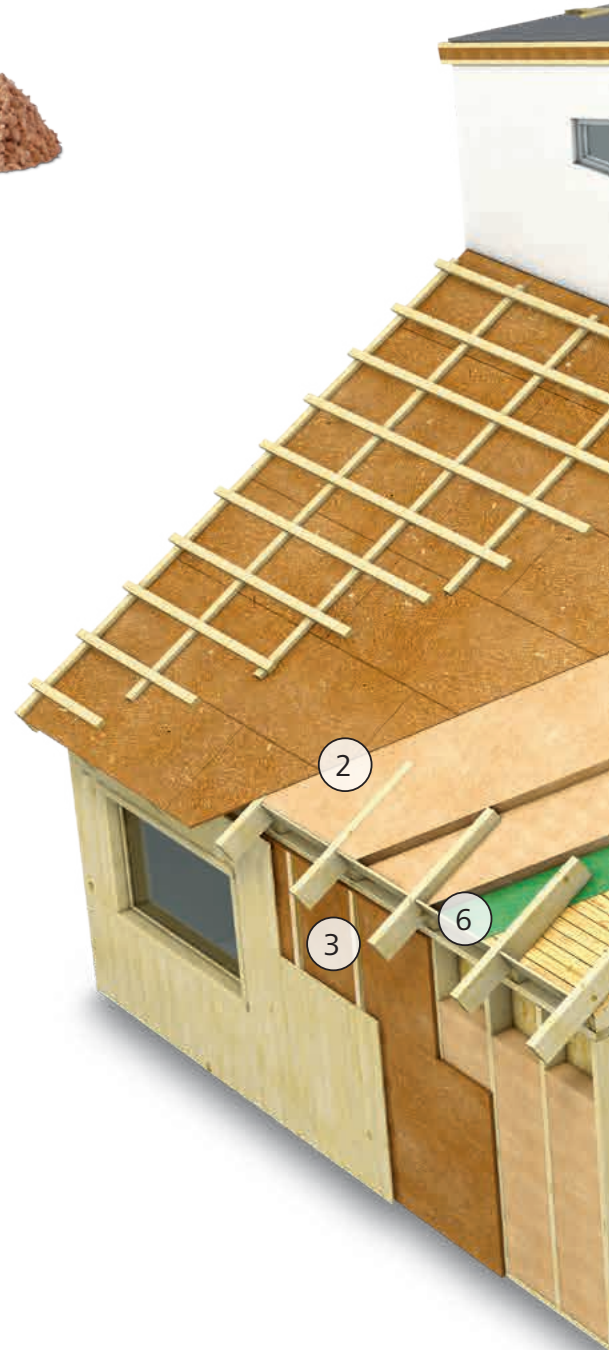
⑤ Construction

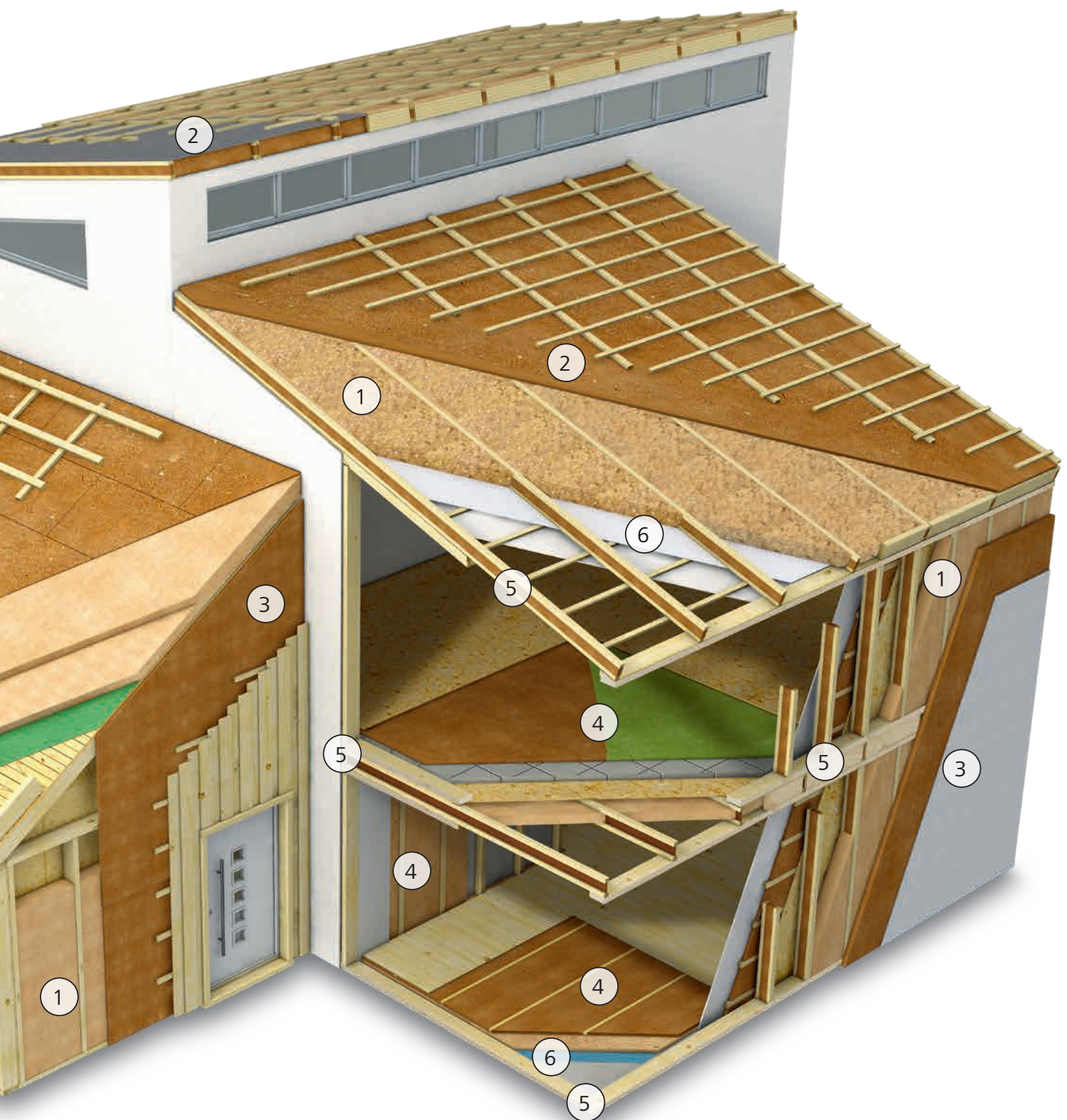
- Laminated veneer lumber (LVL)
- I-joist



⑥ Sealing system

- Air- and vapour control membranes
- Adhesives and sealants





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The STEICO product range

INSULATION

	Sizes			Characteristics	
	Thickness [mm]	Length [mm]	Width [mm]	Thermal conductivity λ_0 [W/(m·K)]	
Combined insulated sarking, sheathing and render board					
STEICO <i>universal dry</i>	40-60	1,880/2,230	600	0.045 / 0.043	
STEICO <i>special dry</i>	60-200	2,230/1,880/1,325	600	0.040	
Sarking and sheathing board					
STEICO <i>universal</i>	22-35	1,880	600	0.048	
STEICO <i>safe</i>	40-80	1,880	600	0.040-0.043	
Flexible insulation from wood					
STEICO <i>flex 036</i>	40-240	1,190	375-575	0.036	
Air injected insulation materials					
STEICO <i>zell</i>	variable	variable	variable	0.038	
STEICO <i>timberfloc</i>	variable	variable	variable	0.039	
Render boards for ETICS					
STEICO <i>protect L dry</i>	100-240	600-1,200	400	0.037	
Render boards for IWI					
STEICO <i>internal</i>	40-100	1,200	380	0.038	
Rigid insulation from wood					
STEICO <i>base</i>	20	1,350	600	0.048	
STEICO <i>EcoSilent</i>	5-7	790	590	0.050	
STEICO <i>therm dry</i>	40-100	1,350/1,880	600	0.037	
STEICO <i>therm SD</i>	20-30	1,350	600	0.038	
STEICO <i>isorel</i>	9-18	2,440	1220	0.050	

CONSTRUCTION

Construction products					
STEICO <i>LVL R</i>	39-75	up to 13,000	up to 600	Laminated veneer lumber with longitudinally glued veneers	
STEICO <i>LVL X</i>	30	up to 12,000	220 - 300	Laminated veneer lumber with cross-bonded veneers	

	Sizes		Joist height [mm]									
	Flange [mm]	Length [mm]	160	200	220	240	300	360	400	450	500	
STEICO <i>joist</i> I-joists for Roofs, Walls and Floors	45	up to 13,000	•	•	•	•	•	•	•	•	•	
	60		•	•	•	•	•	•	•	•	•	
	90				•	•	•	•	•	•	•	

SEALING

Values	s_d-value [m]	Weight [g/m²]	Roll weight [kg]	Applications
STEICO <i>multi</i> sealing system				
STEICO <i>multi membra 5</i>	5.0	130	10	Vapour control membrane for roof, wall and ceiling constructions
STEICO <i>multi renova</i>	0.4 - 35	100	9	Moisture-variable vapour control membrane for roof, wall and ceiling constructions
STEICO <i>multi cover 5</i>	5.0	150	11	Safe-to-walk-on, rainproof vapour control membrane
STEICO <i>multi UDB</i>	0.02	170	13	Highly vapour-permeable airtight membrane, sarking membrane and roof lining membrane
STEICO <i>multi CAPclear</i>	0.3 - 2.7	215	17	Diffusion permeable, fully self-adhesive and airtight weather protection membrane

				General Application							
	Density approx. [kg/m ³]	Compression strength [kPa]	Fire class according to EN13501-1	Roof, external insulation, under covering	Roof, between framing insulation	Roof, interior insulation	Wall, exterior insulation, underneath lining	Wall, timber construction	Wall, interior insulation	Wall, partition wall insulation	Attic floor
	210/180	200	E	✖		✖	✖	✖			✖
	140	≥ 100	E	✖		✖	✖	✖			
	270	200	E	✖			✖	✖			
	140-180	200-100	E	✖			✖	✖			
	50		E		✖		✖	✖	✖	✖	✖
	40		E		✖		✖				✖
	40		E		✖		✖				✖
	110	≥ 50	E				✖	✖			
	160	≥ 50	E					✖			
	250	≥ 150	E	specialist applications							
	250	≥ 150	E								
	110	50	E								
	160	50	E								
	230	≥ 100	E								

	High load bearing rectangular section for masonry and timber construction and special industrial applications
	Additional dimensional stability for timber construction and special industrial applications

Options	Application
Available fully insulated	Load bearing building component for roofs, floors and walls

Responsible for content

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Version: 3

Date: 2026-04-20

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