

Environmentally friendly building products from renewable resources

Innovation for timber constructions

Ecological building

Three icons representing different building components: 'Insulation' (green blocks), 'Sealing' (grey blocks), and 'Construction' (blue blocks).

Certified Safety

STEICO Building System



STEICO
engineered by nature

STEICO *engineered by nature* – environmentally friendly construction products for every project



As a sustainable building material, wood is known for its excellent qualities, both thermal and ecological.

Decades of experience and innovative engineering processes have been combined to take advantage of the natural insulation properties of wood as a raw material. The STEICO construction system combines the advantages of natural wood with those of technically refined high-tech materials.

STEICO products are especially economical and environmentally friendly as they are produced from sustainable resources. The raw materials originate from forests close to the factories as to avoid long transportation routes. Whether for engineered timber elements or insulation materials, roofing boards or wall panels, STEICO offers a suitable product for each building application!

Innovative structures

The slim STEICO I-Joists are particularly lightweight components capable of bearing a load. They are used for particularly energy-efficient designs. The innovative timber product STEICO *LVL* (Laminated Veneer Lumber) is optimally adapted to the I-joists and used wherever maximum loads need to be transferred.



The design of STEICO I-Joists and STEICO *LVL* was inspired by nature, and they combine load-bearing capacity and stability with the highest level of efficiency. Their low net weight, high load-bearing capacity and slim design allows for the development of future-oriented wood constructions characterised by diversity in design and the highest level of safety.



Building and living inspired *by nature*

STEICO – a piece of nature in your home. STEICO all-rounders in the roof, the wall and the floor ensure comfort, healthy living and safety. STEICO products have proven success for decades in hundreds of thousands of buildings all over Europe. The wood used for all STEICO products is sourced from reliable forestry in accordance with the strict certifications of the environmental organisations of the FSC® and the PEFC.

STEICO is a member of the Institut Bauen und Umwelt e.V. (IBU). Also the official seal of the Institut für Baubiologie Rosenheim (Institute for Biologically Sound Construction, IBR) attests that STEICO wood-fibre insulating materials are biologically sound and protect the environment at the same time. The STEICO construction system has also received the recognised Passive House certification.



More than *insulation* – protection for generations



The advantages of buildings with wood-fibre or cellulose insulation are that they ensure the highest levels of energy efficiency and comfortable warmth. Due to climate change, we are experiencing significantly hotter summers, and need increasing amounts of energy to keep buildings cool. In light of this, it is sensible to measure the efficiency of insulation not only in terms of its capability to prevent energy loss during winter, but also in terms of its capability to prevent heat input during summer. STEICO insulating materials offer a very high heat storage capacity combined with low thermal conductivity.



This special property makes for pleasantly cool interior rooms during summer. STEICO products are vapour-permeable construction products and therefore support reliable moisture management. They provide the structure with effective protection against damage caused by moisture. With these positive properties, the all-rounders ensure a biologically sound indoor climate. The products also reduce noise, thus ensuring a quiet and stress-free living environment. STEICO wood-fibre insulating materials are extremely durable and hard-wearing.

Sheathing boards and wall panels

STEICO universal

Sarking and sheathing boards

- Roof and wall insulation with a tongue and groove profile

STEICO universal black

Bitumen impregnated sheathing board

- for curtain walls with joints
- Special black surface

STEICO special dry

Insulation boards for renovations

- Water vapour open insulation board for the renovation of walls and roof

STEICO safe

Sarking and sheathing boards for roofs > 5°

- For roofs > 5°
- Sheathing board with tongue and groove profile with integrated sarking membrane

STEICO duo – multi purpose board

STEICO duo dry

Combined insulated sheathing and render board

- Wood fibre board for render application on external walls
- Sheathing board for both pitched roof and wall constructions
- Insulated wall panel for use behind a rain screen

External Wall Insulation System

STEICO protect dry

External thermal insulation composite system

- Ecological renderboard

STEICO multi sealing system

STEICO multi

Building shell sealing systems

- Sealing materials for the building shell

Air injected insulation

STEICO zell

Air injected insulation

- Joint free insulation
- Made from natural wood fibres



Flexible insulation from wood

STEICO flex 036

Flexible thermal insulation from wood

- Flexible cavity insulation in roof, dry wall and floor constructions with the lowest thermal conductivity



Rigid insulation from wood

STEICO therm

Rigid insulation

- Rigid insulation for applications on walls and roof
- Also available as STEICO therm dry

STEICO internal

Internal insulation board

- Water vapour open internal insulation board
- For masonry wall renovation

STEICO standard nature

Multi purpose rigid insulation board

- Multi purpose insulation board from natural wood fibre for roof, wall and floor applications

STEICO top

Insulation for attic floors

- Fit for light footfall without secondary boarding
- Special high resistant surface finish

STEICO floor

floor insulation system

- Floor insulation for solid wooden floors to avoid acoustic bridging

Construction products

STEICO joist

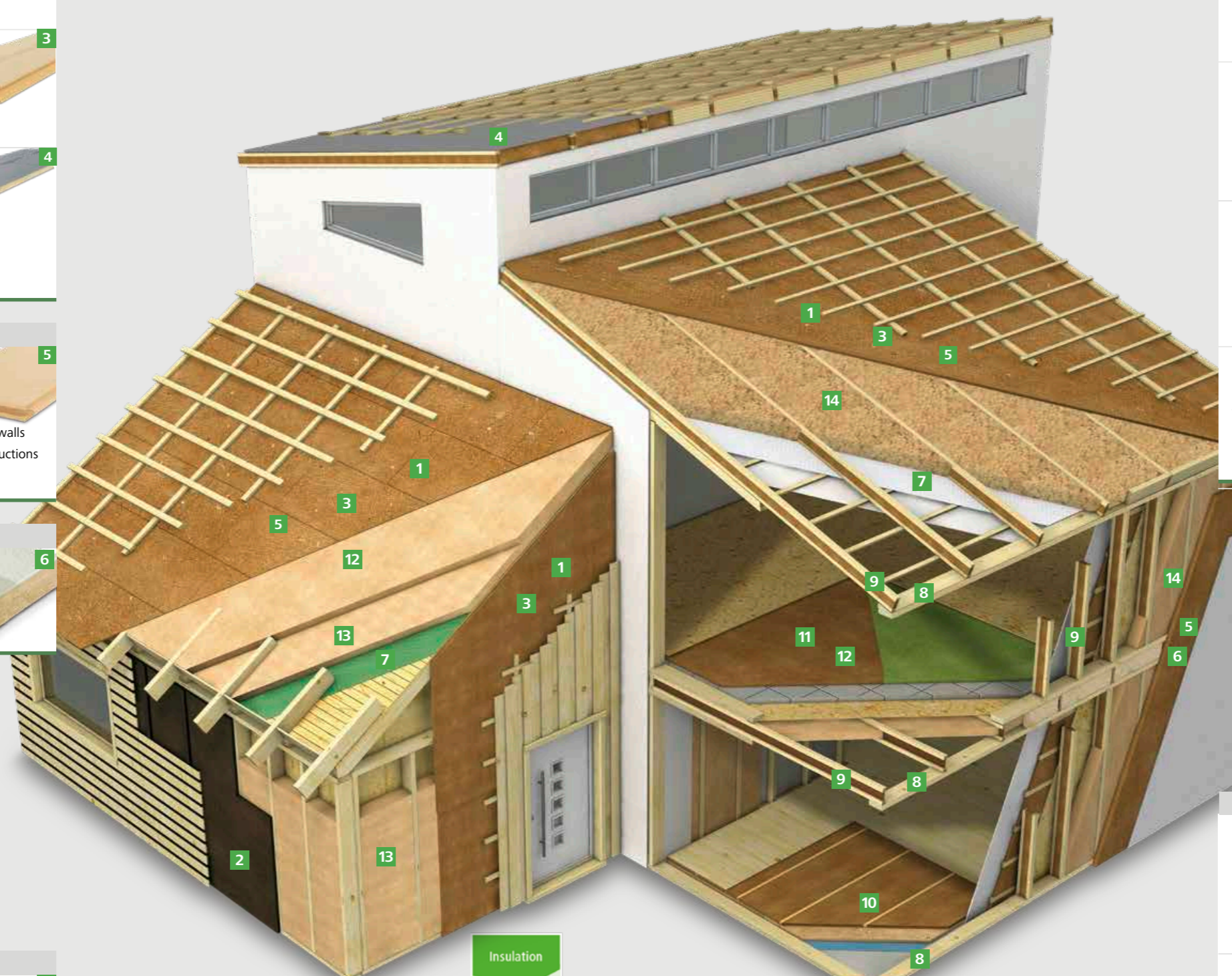
I-Joist Building System for floors & roofs

- Lightweight and high load bearing I-joists

STEICO LVL

Laminated Veneer Lumber

- High strength to weight ratio, dimensional stability



STEICO PRODUCT OVERVIEW

	Sizes ¹				Characteristics ²				General Applications										
	Thickness [mm]	Length [mm]	Width [mm]	Surface per board [m ²]	Thermal conductivity λ_b [W/(m·K)]	Density approx [kg/m ³] ca.	Compression strength [kPa]	Declared level of airflow resistance [kPa * s/m ²]	Fire class according to EN13501-1	Roof, external insulation, under covering	Roof, external insulation, under felt	Roof, cavity insulation	Roof, interior insulation, inside	Wall, exterior insulation, underneath lining	Wall, timber construction	Wall, interior insulation	Wall, partition wall insulation	Ceiling, floor top floor ceiling	
INSULATION																			
Sheathing boards and wall panels																			
STEICO <i>universal</i>	22-60	2,230	600	1.34	0.048	270	200	100	E	×	×	×	×	×				×	
STEICO <i>universal black</i>	22/35	2,230	600	1.34	0.050	260	150		E				×						
STEICO <i>special dry</i>	60-180	2,230/1,880	600	1.34 /1.07	0.040	140	100	100	E	×	×	×	×	×				×	
STEICO <i>safe</i>	40-80	2,230	600	1.34	0.040-0.043	140-180	200-100	100	E	×	×		×						
Flexible insulation from wood																			
STEICO <i>flex036</i>	40-200	1,190	375-575	0.45-0.68	0.036	60		5	E			×	×	×	×	×	×	×	
Air injected insulation materials																			
STEICO <i>zell</i>	variable	variable	variable	variable	0.038	40		>5	E			×	×	×	×	×	×	×	
Rigid insulation from wood																			
STEICO <i>therm</i>	40-80	1,350	600	0.81	0.038	160	50	100	E	×				×	×	×	×	×	
STEICO <i>therm dry</i>	60-160	1,350-1,880	600	0.81-1.13	0.037	110	50		E	×				×	×	×	×	×	
STEICO <i>standard nature</i>	8-19	2,500	1,180	2.95	0.050	230	100	100	E					×	×	×	×	×	
STEICO <i>top</i>	80-100	1,200	400	0.48	0.040	140	100	100	E									×	
STEICO <i>floor</i>	40-60	1,200	380	0.43	0.038	160	40	100	E									×	
Renderboards for ETICS																			
STEICO <i>protect M dry</i>	60-160	1,325	600	0.75	0.040	140	100	100	E				×	×	×		×		
STEICO <i>protect L dry</i>	100-240	600-1,200	400	0.24-0.72	0.037	110	50	100	E				×	×	×		×		
Combined insulated sheathing and render board																			
STEICO <i>duo dry</i>	40/60	2,230	600	1.34	0.043	180	200	100	E	×	×		×	×	×		×		

CONSTRUCTION																		
Construction products																		
STEICO <i>LVL R</i>	30-75	up to 13,000	up to 2,500		Laminated veneer lumber with longitudinally glued veneers										High load bearing rectangular section for masonry and timber construction and special industrial applications			

	Sizes		Joist height [mm]										Option	Application
	Flange [mm]	Length [mm]	160	200	220	240	300	360	400	450	500			
STEICO <i>joist</i> I-joist for floor, roof and wall	45 60 90	up to 13,000	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	Available fully insulated	Load bearing building component for roofs, floors and walls	

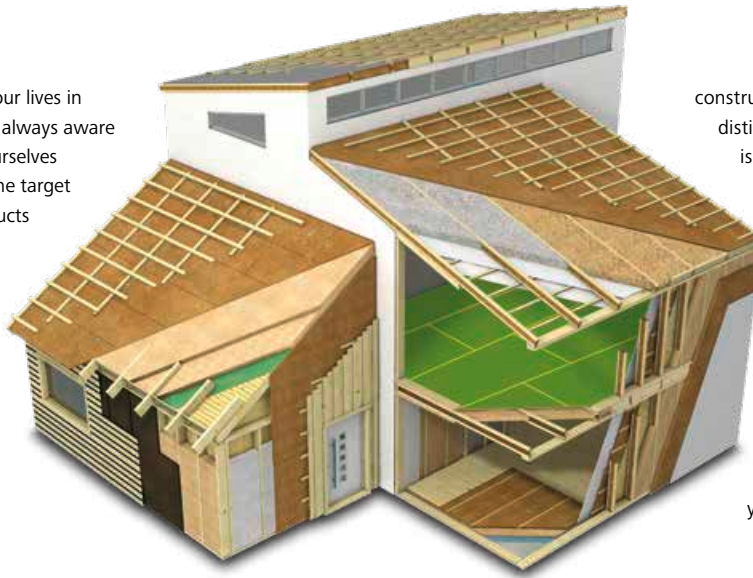
	Sizes			Application
	s _d value [m]	Weight [g/m ²]	Roll weight [kg]	
STEICO<i>multi</i> sealing system				
STEICO <i>multi membra 5</i>	5,0	130	10	Vapour barrier sheet for roof, wall and ceiling constructions
STEICO <i>multi renova</i>	0,4-35	100	9	Moisture-variable vapour barrier sheet for roof, wall and ceiling constructions
STEICO <i>multi cover 5</i>	5,0	150	11	Safe-to-walk-on, rainproof vapour barrier sheet
STEICO <i>multi UDB</i>	0,02	165	13	Highly vapour-permeable airtight membrane, sarking membrane and roof lining membrane
STEICO <i>multi CAP</i>	0,20	255	12	Diffusion permeable, fully self-adhesive and airtight weather protection membrane

ENGINEERED BY NATURE



¹ Additional formats and thicknesses available on request – minimum order of 60 m³ required
² Application recommendations and certifications are available in our datasheets

We spend approx. 80% of our lives in enclosed rooms. But are we always aware what we are surrounding ourselves with? STEICO has set itself the target of developing building products which consider the needs of both man and nature. Our products are therefore produced using sustainable natural materials. They help reduce energy use and add considerably to a natural healthy internal climate. STEICO insulation and



construction materials, carry a number of distinguished 'seals of approval' which is a sign of high quality, healthy and functional building products.

The raw materials used in STEICO products are certified by FSC® (Forest Stewardship Council®) and PEFC (Programme for the Endorsement of Forest Certification), ensuring a traceable and fully sustainable usage of the raw materials.

STEICO, the number 1 choice for your sustainable building solutions.

Natural insulation and construction systems for new builds and renovations – roof, ceiling, wall and floor



Renewable raw materials without harmful additives



Excellent cold protection in winter



Excellent summer heat protection



Energy saving and increased property worth



Weather tight and breathable



Excellent fire protection



Excellent sound protection



Environmentally friendly and recyclable



Light and easy to handle



Insulation for healthy living



Strong quality control



Compatible insulation and structural building systems



Your STEICO Partner

www.steico.com

ENGINEERED BY NATURE