

Environmentally friendly building products
from **renewable** resources

Product range overview



We care about



your well-being

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

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.



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.

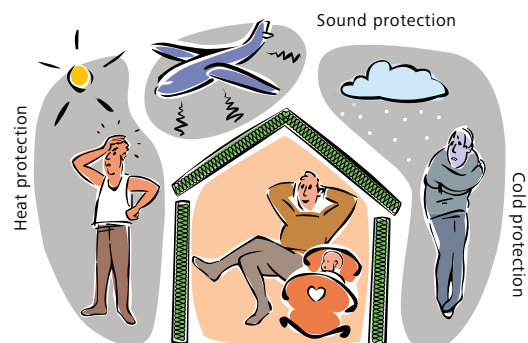
Due to climate change, we are experiencing significantly hotter summers, and need increasing amounts of energy to keep buildings cool. In light of this, it is sensible to measure the

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.



ed *by nature*

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.



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.



Construction products

STEICO joist

I-Joist Building System for floors & roofs

- Lightweight and high load bearing I-joists



STEICO wall

I-Joist Building System for walls

- Lightweight and high load bearing I-joists



STEICO LVL

Laminated Veneer Lumber

- High strength to weight ratio, dimensional stability



STEICO GLVL

Bonded LVL Sections

- For load bearing elements, flat building components and threshold material



Sheathing boards and wall panels

STEICO universal

sarking and sheathing boards

- Roof and wall insulation with a tongue and groove profile
- Also available as STEICO universal dry



STEICO special

sarking boards

- Water vapour open insulation board for the renovation of walls and roof
- Also available as STEICO special dry



External Wall Insulation System

STEICO protect

external thermal insulation composite system

- Ecological renderboard
- Also available as STEICO protect dry



STEICO multi sealing system

STEICO multi

Building shell sealing systems

- Airtight membranes and vapour barrier sheets



Air injected insulation

STEICO zell

air injected insulation

- Joint free insulation
- No additional on-site cutting



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STEICO floc

Cellulose air injected insulation

- Joint free insulation
- No additional on-site cutting



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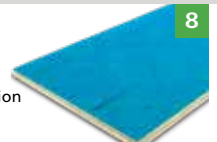


Sheet materials

STEICO sprucedek

Plywood flooring panels with peel off protection

- A high quality WISA spruce plywood with an additional waterproof protective surface



Flexible insulation from wood

STEICO *flex 036*

flexible thermal insulation from wood

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

NEW
 $\lambda_D = 0.036$

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STEICO *flex 038*

flexible thermal insulation from wood

- For cavity insulation in roofs, walls and floors

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STEICO: The integrated construction and insulation system

Rigid insulation from wood

STEICO *therm*

rigid insulation

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

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STEICO *internal*

Internal insulation board

- Water vapour open internal insulation board
- Tongue and groove profile provides improved support

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

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STEICO *underfloor*

underlay for wood and laminate flooring

- Sound protection and improvement of the acoustics on parquet and laminate floorings

Sheet materials

STEICO *durelisdek PC*

enhanced floor deck protection

- A structural particleboard floor decking with peel off waterproof surface protection

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STEICO *durelisdek PRO*

enhanced floor deck protection

- A structural particleboard floor decking with a permanent waterproof surface protection

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STEICO *dek*

P5 structural flooring

- Quality load bearing and moisture resistant particleboard floor decking
- For domestic and light commercial use

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STEICO *sprucefloor*

Plywood flooring panels

- A high quality WISA spruce plywood floor panel with a T&G profile

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STEICO PRODUCT OVERVIEW

	Sizes ¹				Characteristics ²			
	Thickness [mm]	Length [mm]	Width [mm]	Surface per board [m ²]	Thermal conductivity λ_0 [W/(m·K)]	Density approx. [kg/m ³]	Compression strength [kPa]	
INSULATION	Sheathing boards and wall panels							
	STEICO <i>universal</i>	22–60	2,500/2,800	600/1,250	1.45/3.50	0.048	270	200
	STEICO <i>universal dry</i>	35–120	2,500/1,880	600	1.42/1.07	0.045/0.043	210/180	180
	STEICO <i>special</i>	60–120	1,880	600	1.07	0.046	240	100
	STEICO <i>special dry</i>	120–200	1,880	600	1.07	0.040	140	100
	Flexible insulation from wood							
	STEICO <i>flex036</i> NEW	40–240	1,220	575	0.70	0.036	60	
	STEICO <i>flex038</i>	20–240	1,220	575/625/(670) ³	0.81	0.038	50	
	Air injected insulation							
	STEICO <i>zell</i>	variable	variable	variable	variable	0.038	40	
	STEICO <i>floc</i>	variable	variable	variable	variable	0.038	40–60	
	Rigid insulation							
	STEICO <i>therm</i>	20–200	1,350	600	0.81	0.038	160	50
	STEICO <i>therm dry</i>	40–300	1,350	600	0.81	0.037	110	50
	STEICO <i>internal</i>	40–80	1,200	380	0.45	0.038	160	40
	STEICO <i>top</i>	80–100	1,200	400	0.48	0.040	140	100
	STEICO <i>floor</i>	40–60	1,200	380	0.43	0.038	160	40
	STEICO <i>underfloor</i>	3–7	790	590	0.47	0.050 ⁴	250	150
	External thermal insulation composite systems							
	STEICO <i>protect</i>	20–100	1,325/2,800	600–1,250	0.75/3.50	0.046–0.048	230–265	100–180
	STEICO <i>protect dry</i>	40–240	1,200–2,800	400–1,250	0.48–3.50	0.037–0.043	110–180	50–200

CONSTRUCTION

Construction products													
STEICO <i>LVL R</i>	21–90	up to 18,000	up to 2,500		with longitudinally glued veneers								
STEICO <i>LVL X</i>					with crosswise glued veneers								
STEICO <i>G LVL</i> NEW	up to 400		up to 1.000		Glue bonded sections of STEICO <i>LVL R</i> or STEICO <i>LVL X</i>								
	Sizes	Width [mm]	Length [mm]	Joist height [mm]									
				160	200	220	240	280	300	360	400	450	
STEICO <i>joist</i>	45	up to 16,000		•	•	•		•	•	•			
	60			•	•	•	•	•	•	•	•	•	
	90			•	•	•	•	•	•	•	•	•	
STEICO <i>wall</i>	45		•	•		•	•	•					
	60		•	•		•	•	•	•				
	90					•	•	•	•				

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¹ additional formats and thicknesses available on request – minimum order of 60 m³ required

² application recommendations and certifications are available in our datasheets

³ also available with angle cut – see datasheet

⁴ in accordance with EN 13986, Tab 11

Declared level of airflow resistance [kPa*s/m²]			Fire class according to EN 13501-1		General Applications								
					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
	100	E	✗	✗			✗	✗	✗				✗
	100	E	✗	✗			✗	✗	✗				✗
	100	E	✗	✗			✗	✗	✗				✗
	100	E	✗	✗			✗	✗	✗				✗
	5	E				✗	✗	✗	✗	✗	✗	✗	✗
	5	E				✗	✗	✗	✗	✗	✗	✗	✗
	>5	E				✗	✗	✗	✗	✗	✗	✗	✗
	>5	E				✗	✗	✗	✗	✗	✗	✗	✗
	100	E	✗					✗	✗	✗	✗	✗	✗
		E	✗					✗	✗	✗	✗	✗	✗
	100	E					✗		✗	✗	✗		
	100	E											✗
	100	E					✗		✗	✗			✗
		E											✗
		E					✗	✗	✗		✗		
		E					✗	✗	✗		✗		

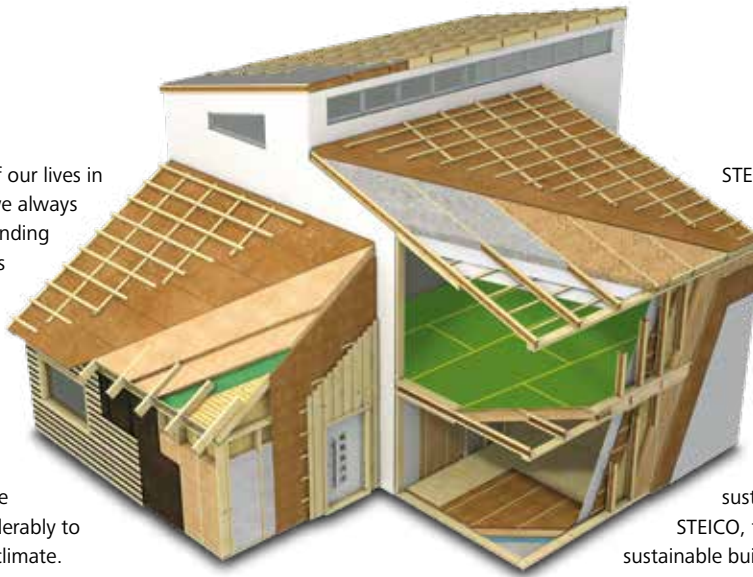
			High load bearing rectangular section for masonry and timber construction and special industrial applications									
			load bearing elements, flat building components, threshold material									

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

ENGINEERED BY NATURE



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



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Your STEICO Partner

www.steico.com