

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

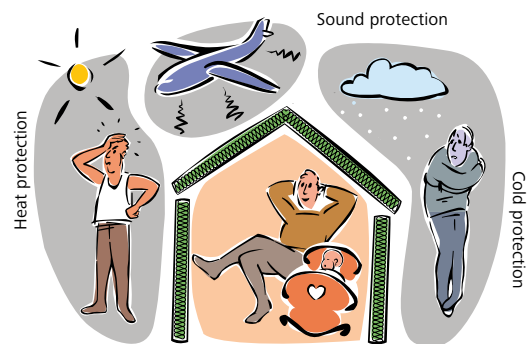


The advantages of buildings with wood-fibre or cellulose insulation are that they ensure the highest levels of energy efficiency and comfortable warmth. Due to climate change, we are experiencing significantly hotter summers, and need increasing amounts of energy to keep buildings cool. In light of this, 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.



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*



1

STEICO *universal black*

Bitumen impregnated sheathing board

- for curtain walls with joints
- Special black surface



2

STEICO *special*

sarking boards

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



3

STEICO *safe*

Sarking and sheathing boards for roofs >5°

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



4

STEICO *duo* – multi purpose board

NEW

STEICO *duo*

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*

external thermal insulation composite system

- Ecological renderboard
- Also available as STEICO*protect dry*



6

STEICO *secure* render system

STEICO *secure*

Render system for STEICO wood fibre boards

- Ecological render system
- Choice of two water vapour open render systems



7

STEICO *multi* sealing system

STEICO *multi*

Building shell sealing systems

- Sealing materials for the building shell



5

Air injected insulation

STEICO *zell*

air injected insulation

- Joint free insulation
- Made from natural wood fibres



16



STEICO *floc*

Cellulose air injected insulation

- Joint free insulation
- Made from recycled paper



NEW
λ_D 0,038

17



Construction products

STEICO *joist / wall*

I-Joist Building System for floor, roofs & walls

- Lightweight and high load bearing I-joists



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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



STEICO flex 038
flexible thermal insulation from wood

- For cavity insulation in roofs, walls and floors



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



STEICO install
Insulation for service voids

- Ideal for the installation of service voids in timber constructions



STEICO internal
Internal insulation board

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



STEICO isorel
multi purpose rigid insulation board

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



STEICO roof dry
Insulation for flat roofs

- Insulation for flat roof construction
- High compression strength, even with concentrated loads



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



STEICO underfloor
underlay for wood and laminate flooring

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



STEICO base
robust insulation for floors

- Ideal solutions for high load bearing wet and dry screed systems



STEICO LVL
Laminated Veneer Lumber

- High strength to weight ratio, dimensional stability



STEICO PRODUCT OVERVIEW

Sizes¹

Characteristics²

Thickness
[mm]

Length
[mm]

Width
[mm]

Surface per
board [m²]

Thermal conductivity
 λ_b [W/(m*K)]

Density approx.
[kg/m³] ca.

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>	35-100	2.500/1.880	600	1,42/1,07	0,045/0,043	210/180	180	
STEICO <i>universal black</i>	22/35	2.500	600	1,45	0,050	260	150	
STEICO <i>special</i>	60-120	1.880	600	1,07	0,046	240	100	
STEICO <i>special dry</i>	40-200	1.880	600	1,07	0,040	140	100	
STEICO <i>safe</i>	40-240	2.500/1.880	600	1,42/1,07	0,037-0,045	210-110	180-50	
Flexible insulation from wood								
STEICO <i>flex 036</i>	40-240	1.220	575	0,70	0,036	60		
STEICO <i>flex 038</i>	30-240	1.220	575/625/(670) ³	0,81	0,038	50		
Air injected insulation materials								
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 from wood								
STEICO <i>therm</i>	20-200	1.350-1.880	600	0,81-1,13	0,038	160	50	
STEICO <i>therm dry</i>	40-300	1.350-1.880	600	0,81-1,13	0,037	110	50	
STEICO <i>install</i>	50	2.595/2.600	600-1.250	1,56-3,24	0,040	140	100	
STEICO <i>internal</i>	40-80	1.200	380	0,45	0,038	160	40	
STEICO <i>isorel</i>	8-19	1.200/2.500	1.000/1.200	1,20/3,00	0,050	230	100	
STEICO <i>roof dry</i>	60-200	800	800	0,64	0,040	140	100	
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	
STEICO <i>base</i>	20-100	1.350	600	0,81	0,048	250	150	
Renderboards for ETICS								
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	
Combined insulated sheathing and render board								
STEICO <i>duo</i>	40/60	1.880	600	1,07	0,048	265	180	
STEICO <i>duo dry</i> *	40/60	1.880	600	1,07	0,043	180	200	

* XXL formats available up to 6.000 x 2.500 mm

CONSTRUCTION

Construction products					
STEICO <i>LVL R</i>	21-90	up to 18.000	up to 2.500	Laminated veneer lumber with longitudinally glued veneers	
STEICO <i>LVL X</i>	21-75			Laminated veneer lumber 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>	

	Flange [mm]	Length [mm]	Joist height [mm]									
			160	200	220	240	280	300	360	400	450	500
STEICO <i>joist</i> I-joist for floor and roof	45	up to 16.000		•	•	•		•	•	•		
	60			•	•	•	•	•	•	•	•	•
	90			•	•	•	•	•	•	•	•	•
STEICO <i>wall</i> I-joist for wall	45			•			•	•	•	•		
	60			•	•		•	•	•	•		
	90					•	•	•	•			

s_d value
[m]

Weight
[g/m²]

Roll weight
[kg]

Application

SEALING

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>	0,25 - 25	110	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	170	13	Highly vapour-permeable airtight membrane, sarking membrane and roof lining membrane

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

⁵ In accordance with EN 10456, Tab 3

Declared level of airflow resistance [KPa*s/m²]	Fire Class according to EN13501-1	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 top floor ceiling	
100	E	×	×		×	×	×			×	
100	E	×	×		×	×	×			×	
	E					×					
100	E	×	×		×	×	×			×	
100	E	×	×		×	×	×			×	
100	E	×	×			×					
5	E			×	×	×	×	×	×	×	
5	E			×	×	×	×	×	×	×	
>5	E			×	×	×	×	×	×	×	
>5	E			×	×	×	×	×	×	×	
100	E	×				×	×	×	×	×	
	E	×				×	×	×	×	×	
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100	E	×	×		×	×	×		×		

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

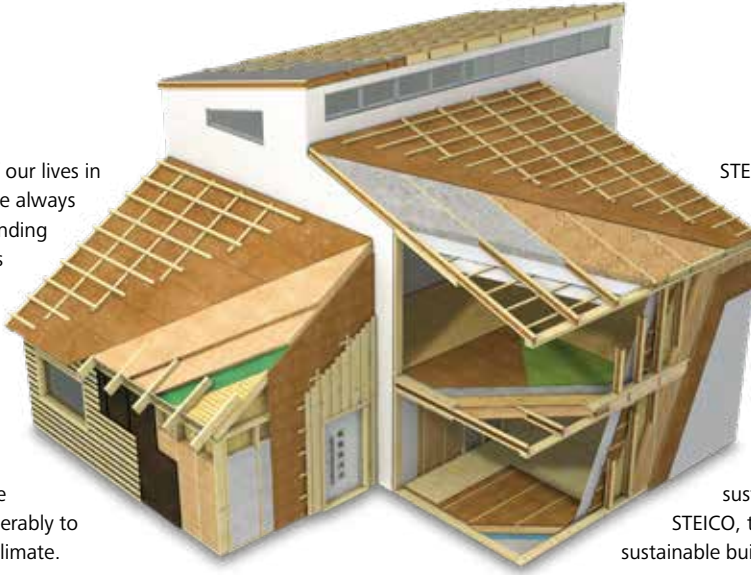
Structural beams like girder and lintels, sole and top plate applications, solid floor elements

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



ENGINEERED BY NATURE

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