

EN

**HASSLACHER**  
**NORICA TIMBER**

From **wood** to **wonders**.

Product Overview

HASSLACHER Product Overview





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# From wood

## Vision

We are a family-owned company with regional roots and global ambitions. We specialize in optimized and integrated solutions using wood as a renewable resource. Our customers value the highest level of quality that we provide. We continually support our customers with a philosophy of innovation and expertise to meet their requirements in modern timber construction. We are backed by sustainable solutions and materials with our state-of-the-art production and digital technologies.





ood

We produce sustainably and efficiently, creating value and striving for continuous success at every turn. Together with our employees, we are making a conscious contribution to our future. We are motivated by our love of nature, especially the forests where our product is grown.





A photograph of the International House in Sydney, Australia, at night. The building is a modern structure with a prominent timber frame and glass facade. The interior lights are on, creating a warm, golden glow that illuminates the wooden structure. The building is set against a dark night sky. In the foreground, there are some green trees and foliage, partially obscuring the view of the building.

International House  
Sydney | AU

to wonder

## Mission

We are a global leader in innovative and efficient solutions for modern timber construction. Our group of companies is diversified and vertically integrated, with a substantial portfolio of projects using renewable materials. We are market leaders in modern timber construction with a reputation for quality and reliability. We have a proud heritage and a sustainable philosophy, duly reflected in our employee satisfaction. Our efficient and high-quality production techniques make us a reliable partner with the best customer service and logistical support in the industry.





ers.

Our skilled employees are the core of our success, going above and beyond to uphold our reputation. Our team is customer-focused and shows constant determination and dedication. As a family-oriented enterprise, we are united by our love of nature, making a positive contribution to society and a commitment to long-term, successful growth. We are driven by our passion, curiosity and desire for innovation.

Always true to our motto: „From **wood** to **wonders.**“



# Location

## Austria

Sachsenburg  
Stall im Mölltal  
Hermagor  
Preding  
Rennweg am Katschberg  
Nikolsdorf  
Rangersdorf

## Slovenia

Bohinjska Bistrica

## Germany

Kleinheubach  
Magdeburg  
Schmallenberg

## Spain

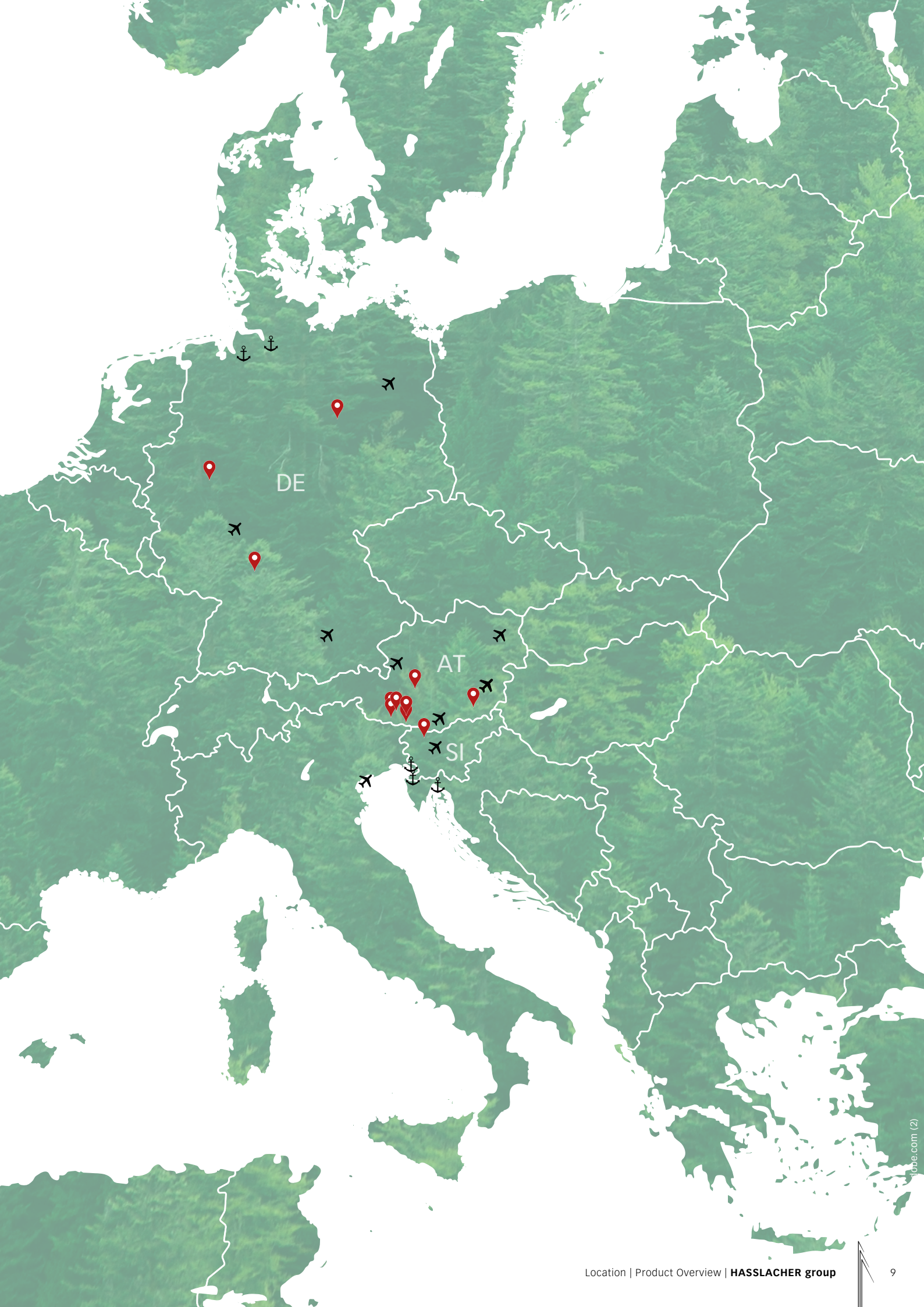
Ea  
Legutio



✈ **AT** | Klagenfurt, Graz, Salzburg, Vienna; **IT** | Venice;  
**DE** | Munich, Frankfurt, Berlin; **SI** | Ljubljana; **ES** | Bilbao;

⚓ **DE** | Hamburg, Bremerhaven; **IT** | Trieste; **SI** | Koper; **HR** | Rijeka; **ES** | Bilbao;







HoHo  
Vienna | AT





EN

**HASSLACHER**  
**NORICA TIMBER**

From **wood** to **wonders**.



# Cross Laminated Timber

The building material of the future.

# Cross Laminated Timber Overview

## Product standard

ETA-12/0281

## Surface qualities

Excellent surface  
Visual quality  
Industrial visual quality  
Industrial quality

On request, cover lamellas can also be edge bonded.

## Cross sections

	Large size	Standard size
Thickness:	80 mm to 400 mm 60 mm on request	90 mm to 280 mm 60 mm and 80 mm upon request
Width:	up to 3.20 m	1.25 m
Length:	up to 20 m	up to 24 m

## Strength classes

CL26E11.8  
CL36E14.7

## Wood species

- ⊕ Spruce/fir
- ⊕ Pine
- ⊕ Larch
- ⊕ Swiss stone pine, fir, hardwoods (on request)

## Certificates

The current certificates are available in the download area of our website at [HASSLACHER.COM](https://www.hasslacher.com).

## Sustainability

The HASSLACHER Group stands for a careful use of wood as a resource. Our raw materials come from sustainable and controlled forestry. Our locations are certified according to the strict PEFC standards.





# Product range

## Panel lay-ups

Type	Thickness (mm)	Layers	Panel lay-ups mm						Width (m)	Length (m)	Mass (kg/m <sup>2</sup> )
BSP 60	60	3		20	20	20		2.20 – 3.20 m	up to 20 m	27	
BSP 80	80	3		20	40	20				36	
BSP 90	90	3		30	30	30		none Standard widths	The type and orientation of the layers define the recommended maximum length of the panels for reasons of	41	
BSP 100	100	3		30	40	30				45	
BSP 120	120	3		40	40	40		no modular dimensions	transport and installation.	54	
BSP 100	100	5	20	20	20	20	20			45	
BSP 120	120	5	30	20	20	20	30			54	
BSP 140	140	5	40	20	20	20	40			63	
BSP 160	160	5	40	20	40	20	40			72	
BSP 180	180	5	40	30	40	30	40			81	
BSP 200	200	5	40	40	40	40	40			90	
BSP 200	200	7s / 7ss	30	30	30	20	30			30	90
BSP 210	210	7s / 7ss	30	30	30	30	30			30	95
BSP 220	220	7s / 7ss	40	40	20	20	20			40	99
BSP 240	240	7s / 7ss	40	40	20	40	20			40	108
BSP 260	260	7s / 7ss	40	40	30	40	30			40	117
BSP 280	280	7s / 7ss	40	40	40	40	40			40	126
BSP 300	300	8s / 8ss	40	40	30	40 + 40	30			40	40
BSP 320	320	8s / 8ss	40	40	40	40 + 40	40	40	40	144	

Due to the density's natural variability, the quantified masses may vary up to ±15 %.  
 ss: Outer layers consist of 2 longitudinal layers (l)  
 BSP 60 mm and other panel thicknesses or special lay-ups on request.

## Standard size panel lay-ups

Type	Thickness (mm)	Layers	Panel lay-ups mm						Width (m)	Length (m)	Mass (kg/m <sup>2</sup> )	
BSP 60	60	3s		20	20	20		Standard width 1.25 m	up to 24 m	27		
BSP 80	80	3s		30	20	30				36		
BSP 90	90	3s		30	30	30		Widths below 1.25 m can be cut	The type and orientation of the layers define the recommended maximum length of the panels for reasons of	41		
BSP 100	100	3s		30	40	30				45		
BSP 100	100	3s		40	20	40				45		
BSP 120	120	5s		40	40	40				54		
BSP 100	100	5s	20	20	20	20	20			45		
BSP 120	120	5s	20	30	20	30	20			54		
BSP 140	140	5s	40	20	20	20	40			63		
BSP 160	160	5s	40	20	40	20	40			72		
BSP 180	180	5s	40	30	40	30	40			81		
BSP 200	200	5s	40	40	40	40	40			90		
BSP 220	220	7ss	30	30	35	30	35			30	30	99
BSP 240	240	7ss	40	40	20	40	20			40	40	108
BSP 260	260	7ss	40	40	30	40	30			40	40	117
BSP 280	280	7s / 7ss	40	40	40	40	40			40	40	126

Due to the density's natural variability, the quantified masses may vary up to ±15 %.  
 ss: Outer layers consist of 2 longitudinal layers (l)  
 BSP 60 mm and 80 mm and other panel thicknesses or special lay-ups on request.



# Cross Laminated Timber

## Quality description

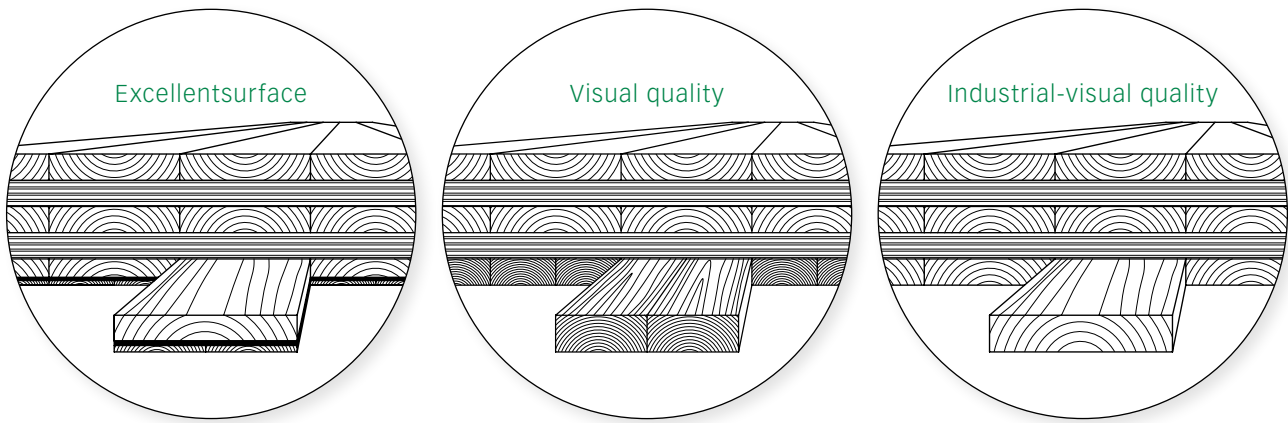
### Characteristics

### Excellent surface

### Visual quality

<b>Description</b>	Consists of finger-jointed lamellas, whereby the cover lamellas have a special lay-up including a cross layer. Wood grain and texture result in a very homogeneous appearance. Appearance of gaps is remarkably lessened. Repairs through wood patches are permissible.	Consists of finger-jointed lamellas of a single wood species, which have a homogeneous appearance in texture and grain. Field of use: Exposed floors in the luxury market. Growth-related features occur in reduced form. Non-conforming growth-related features may be repaired through wood patches.
<b>Wood species for the cover layer</b>	On request, various soft- and hardwood species are available.	On request, spruce, larch, pine, fir and hardwood.
<b>Surface</b>	Sanded	Sanded
<b>Gap width on delivery</b>	Up to maximum of 1 mm	Up to maximum of 1 mm
<b>Knots</b>	Sound knots, isolated black knots are permissible, edge knots and falling knots of up to 10 mm are permissible	Sound knots, isolated black branches are permissible, edge knots and falling knots of up to 15 mm are permissible
<b>Pitch pockets</b>	are permissible up to 3 mm x 50 mm (or the equivalent in mm <sup>2</sup> ).	are permissible up to 5 mm x 70 mm (or the equivalent in mm <sup>2</sup> ).
<b>Patches</b>	Permissible	Permissible
<b>Blue stains and red stripes</b>	Slight discolourations of less than 5 % are permissible, which are predominantly balanced out.	Slight discolourations covering 5 % of the surface area are permissible
<b>Insect infestation</b>	Not permissible	Not permissible
<b>Ingrown bark</b>	Not permissible	Not permissible
<b>Piths</b>	Widely free from ingrown bark	Permissible
<b>Cracks</b>	A crack width up to 1 mm are permissible	Up to 1 mm are permissible
<b>Compression wood</b>	which are predominantly balanced out	Up to 40 % of the surface area
<b>Soft rot</b>	Not permissible	Not permissible
<b>Mistletoe</b>	Not permissible	Not permissible
<b>Wood moisture content</b>	Maximum 10 % ± 2 %	Maximum 10 % ± 2 %
<b>Board thicknesses</b>	Specific lay-up of the cover lamella	19 mm to 45 mm
<b>Board widths</b>	80 mm to 200 mm; only boards with identical widths are used in the cover layer.	80 mm to 200 mm; only boards with identical widths are used in the cover layer.
<b>Type of cutting</b>	The cut is heartwood-free	Centre boards
<b>Scope of application</b>	The specified surface qualities are only valid for the outer layer(s), and thus not applicable to the cross laminated timber's narrow faces. The indicated surface qualities are valid upon delivery. Crack and gap formation may occur in use, in particular at extreme climatic conditions.	
<b>Sanded surface</b>	The surfaces are sanded or calibrated up to a panel width of 3.20 m, or a panel thickness of 300 mm. In dependence of the panel format or on the cover layer's orientation the element may be sanded perpendicular to grain direction.	
<b>Edge bonding</b>	Edge-wise bonding of the boards of the longitudinal cover layer on request.	





## Characteristics

## Industrial-visual quality

## Industrial quality

<b>Description</b>	Surfaces consist of a single wood species; colour differences, wood grain and texture are categorically less relevant. Used as to cover industrial hall constructions. Non-conforming growth-related features may be repaired by means of wood patches. Industrial quality possible on request.	No visual requirements at all; the surface is assumed to be covered with additional materials. Various wood species are possible for cover layer.
<b>Wood species for the cover layer</b>	Spruce/fir, pine	Spruce/fir, pine
<b>Surface</b>	Sanded	Calibrated
<b>Gap width on delivery</b>	Up to maximum of 2 mm	Up to maximum of 3 mm
<b>Knots</b>	Sound knots, black knots of up to 20 mm are permissible, broken edge knots and falling knots up to 25 mm permissible.	Restrictions are in accordance to the corresponding strength grading
<b>Pitch pockets</b>	Are permissible up to 6 mm x 80 mm (or the equivalent in mm <sup>2</sup> ).	No restrictions
<b>Patches</b>	Permissible	Permissible
<b>Blue stains and red stripes</b>	Discolouration covering up to 10 % of the surface area is permissible	No restrictions
<b>Insect infestation</b>	Not permissible	Worm grooves of up to 2 mm of diameter are permissible
<b>Ingrown bark</b>	Permissible if isolated	Permissible
<b>Piths</b>	Permissible	Permissible
<b>Cracks</b>	Up to 3 mm are permissible	Restrictions are in accordance to the corresponding strength grading
<b>Compression wood</b>	Restrictions are in accordance with the corresponding strength grading	Restrictions are in accordance with the corresponding strength grading
<b>Soft rot</b>	Not permissible	Not permissible
<b>Mistletoe</b>	Not permissible	Not permissible
<b>Wood moisture content</b>	Maximum 12 % ± 2 %	Maximum 12 % ± 2 %
<b>Board thicknesses</b>	19 mm to 45 mm	19 mm to 45 mm
<b>Board widths</b>	80 mm to 240 mm; boards with varying widths in one layer are possible.	80 mm to 280 mm; boards with varying widths in one layer are possible.
<b>Type of cutting</b>	No restrictions	No restrictions
<b>Scope of application</b>	The specified surface qualities are only valid for the outer layer(s), and thus not applicable to the cross laminated timber's narrow faces. The indicated surface qualities are valid upon delivery. Crack and gap formation may occur in use, in particular at extreme climatic conditions.	
<b>Sanded surface</b>	The surfaces are sanded or calibrated up to a panel width of 3.20 m, or a panel thickness of 300 mm. In dependence of the panel format or on the cover layer's orientation the element may be sanded perpendicular to grain direction.	
<b>Edge bonding</b>	Edge-wise bonding of the boards of the longitudinal cover layer on request.	







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# Glued Laminated Timber

The engineered timber beam.



# Glued Laminated Timber Overview

## Product standard/certification

EN 14080

## Surface qualities

Visual quality  
Industrial quality

## Cross sections

Heights: 80 to 1,280 mm in 40 mm steps  
Special components up to 4,000 mm are possible  
Widths: 80 mm to 280 mm in 20 mm steps  
Any desired extension is possible through block bonding  
Lengths: up to 27 m; or up to 42 m as special components

## Strength classes

GL24h GL24c up to a beam width of 280 mm  
GL28h GL28c up to a beam width of 280 mm  
GL30h GL30c up to a beam width of 240 mm  
GL32h GL32c up to a beam width of 200 mm  
Other strength classes available on request

## Wood species

- ⊕ Spruce/fir
- ⊕ Larch
- ⊕ Pine
- ⊕ Other wood species on request

## Certification

The current certificates are available in the download area of our website at [HASSLACHER.COM](https://www.hasslacher.com).

## Sustainability

The HASSLACHER Group stands for a careful use of wood as a resource. Our raw materials come from sustainable and controlled forestry. Our locations are certified according to the strict PEFC standards.





# Quality description

Characteristics	Visual Quality	Industry Quality
<b>General</b>	Optimised for a visible use, e.g. as visible rafters and beams for carports and upscale residential areas. All knots are sound knots and knotholes are patched. The occurrence of blue stains, red stripes and/or pitch pockets is minimised. The cracks are minimised and hardly any heart centre is present due to core-free cutting. A homogeneous appearance is aspired.	Optimised for a non-visual use. Discolouration such as blue stain, nail-proof brown and/or red stripes are permitted. Fallen-out knots and pitch pockets may casually occur. For loadbearing and non-loadbearing use in engineered timber structures with lower aesthetic requirements.
<b>Black knots</b>	Permitted, provided that they do not fall out	Permitted
<b>Falling knots</b>	Permitted up to approximately 20 mm, sound knots are permitted	Permitted
<b>Wane</b>	Not permitted	Not permitted
<b>Rotten areas</b>	Not permitted	Not permitted
<b>Pith</b>	Permitted	Permitted
<b>Pitch pockets</b>	Permitted up to approximately 5 x 50 mm, larger pockets must be patched	Permitted
<b>Insect infestations</b>	Not permitted	Permitted up to a diameter of 2 mm
<b>Red stripes</b>	Up to approximately 5 % of the surface	Permitted
<b>Blue stain</b>	Up to approximately 5 % of the surface	Permitted
<b>Planing quality</b>	Rough areas are not permitted. Planer marks up to a length of 10 mm and a depth of 1 mm are permitted	Rough areas and planer marks are permitted
<b>Cracks</b>	Permitted up to a depth of 1/6 of the component width (per side); as long as the required static loadbearing capacity is not impaired	Permitted up to a depth of 1/6 of the component width (per side); as long as the required static loadbearing capacity is not impaired
<b>Scope of validity</b>	The specified surface qualities are valid at time of delivery.	

# Glued Laminated Timber Straight beams

## Standard packing units

### Packaging units

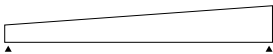
Height in mm	t	m <sup>3</sup>	t	m <sup>3</sup>	t	m <sup>3</sup>	t	m <sup>3</sup>	t	m <sup>3</sup>	t	m <sup>3</sup>	t	m <sup>3</sup>	t	m <sup>3</sup>
	unit	cm	unit	cm	unit	cm	unit	cm	unit	cm	unit	cm	unit	cm	unit	cm
1,280	2.5	5.5	3.1	6.9	1.9	4.1	2.2	4.8	1.2	2.8	1.4	3.1	1.6	3.5	1.9	4.1
	<b>4</b>	128 x 32	<b>4</b>	128 x 40	<b>2</b>	128 x 24	<b>2</b>	128 x 28	<b>1</b>	128 x 16	<b>1</b>	128 x 18	<b>1</b>	128 x 20	<b>1</b>	128 x 24
1,240	2.4	5.4	3.0	6.7	1.8	4.0	2.1	4.7	2.4	5.4	1.4	3.0	1.5	3.3	1.8	4.0
	<b>4</b>	124 x 32	<b>4</b>	124 x 40	<b>2</b>	124 x 24	<b>2</b>	124 x 28	<b>2</b>	124 x 32	<b>1</b>	124 x 18	<b>1</b>	124 x 20	<b>1</b>	124 x 24
1,200	2.3	5.2	2.9	6.5	1.7	3.9	2.0	4.5	2.3	5.2	1.3	2.9	1.5	3.2	1.7	3.9
	<b>4</b>	120 x 32	<b>4</b>	120 x 40	<b>2</b>	120 x 24	<b>2</b>	120 x 28	<b>2</b>	120 x 32	<b>1</b>	120 x 18	<b>1</b>	120 x 20	<b>1</b>	120 x 24
1,160	2.3	5.0	2.8	6.3	1.7	3.8	2.0	4.4	2.3	5.0	1.3	2.8	1.4	3.1	1.7	3.8
	<b>4</b>	116 x 32	<b>4</b>	116 x 40	<b>2</b>	116 x 24	<b>2</b>	116 x 28	<b>2</b>	116 x 32	<b>1</b>	116 x 18	<b>1</b>	116 x 20	<b>1</b>	116 x 24
1,120	2.2	4.8	2.7	6.0	1.6	3.6	1.9	4.2	2.2	4.8	2.4	5.4	1.4	3.0	1.6	3.6
	<b>4</b>	112 x 32	<b>4</b>	112 x 40	<b>2</b>	112 x 24	<b>2</b>	112 x 28	<b>2</b>	112 x 32	<b>2</b>	112 x 36	<b>1</b>	112 x 20	<b>1</b>	112 x 24
1,080	2.1	4.7	2.6	5.8	1.6	3.5	1.8	4.1	2.1	4.7	2.4	5.2	1.3	2.9	1.6	3.5
	<b>4</b>	108 x 32	<b>4</b>	108 x 40	<b>2</b>	108 x 24	<b>2</b>	108 x 28	<b>2</b>	108 x 32	<b>2</b>	108 x 36	<b>1</b>	108 x 20	<b>1</b>	108 x 24
1,040	2.0	4.5	2.5	5.6	1.5	3.4	1.8	3.9	2.0	4.5	2.3	5.1	1.3	2.8	1.5	3.4
	<b>4</b>	104 x 32	<b>4</b>	104 x 40	<b>2</b>	104 x 24	<b>2</b>	104 x 28	<b>2</b>	104 x 32	<b>2</b>	104 x 36	<b>1</b>	104 x 20	<b>1</b>	104 x 24
1,000	1.9	4.3	2.4	5.4	1.5	3.2	1.7	3.8	1.9	4.3	2.2	4.9	2.4	5.4	2.9	6.5
	<b>4</b>	100 x 32	<b>4</b>	100 x 40	<b>2</b>	100 x 24	<b>2</b>	100 x 28	<b>2</b>	100 x 32	<b>2</b>	100 x 36	<b>2</b>	100 x 40	<b>2</b>	100 x 48
960	1.9	4.1	2.3	5.2	1.4	3.1	1.6	3.6	1.9	4.1	2.1	4.7	2.3	5.2	2.8	6.2
	<b>4</b>	96 x 32	<b>4</b>	96 x 40	<b>2</b>	96 x 24	<b>2</b>	96 x 28	<b>2</b>	96 x 32	<b>2</b>	96 x 36	<b>2</b>	96 x 40	<b>2</b>	96 x 48
920	1.8	4.0	2.2	5.0	1.3	3.0	1.6	3.5	1.8	4.0	2.0	4.5	2.2	5.0	2.7	6.0
	<b>4</b>	92 x 32	<b>4</b>	92 x 40	<b>2</b>	92 x 24	<b>2</b>	92 x 28	<b>2</b>	92 x 32	<b>2</b>	92 x 36	<b>2</b>	92 x 40	<b>2</b>	92 x 48
880	1.7	3.8	2.1	4.8	1.3	2.9	1.5	3.3	1.7	3.8	1.9	4.3	2.1	4.8	2.6	5.7
	<b>4</b>	88 x 32	<b>4</b>	88 x 40	<b>2</b>	88 x 24	<b>2</b>	88 x 28	<b>2</b>	88 x 32	<b>2</b>	88 x 36	<b>2</b>	88 x 40	<b>2</b>	88 x 48
840	1.6	3.6	2.0	4.5	1.2	2.7	1.4	3.2	1.6	3.6	1.8	4.1	2.0	4.5	2.4	5.4
	<b>4</b>	84 x 32	<b>4</b>	84 x 40	<b>2</b>	84 x 24	<b>2</b>	84 x 28	<b>2</b>	84 x 32	<b>2</b>	84 x 36	<b>2</b>	84 x 40	<b>2</b>	84 x 48
800	1.6	3.5	1.9	4.3	1.2	2.6	1.4	3.0	1.6	3.5	1.7	3.9	1.9	4.3	2.3	5.2
	<b>4</b>	80 x 32	<b>4</b>	80 x 40	<b>2</b>	80 x 24	<b>2</b>	80 x 28	<b>2</b>	80 x 32	<b>2</b>	80 x 36	<b>2</b>	80 x 40	<b>2</b>	80 x 48
760	1.5	3.3	1.8	4.1	1.1	2.5	1.3	2.9	1.5	3.3	1.7	3.7	1.8	4.1	2.2	4.9
	<b>4</b>	76 x 32	<b>4</b>	76 x 40	<b>2</b>	76 x 24	<b>2</b>	76 x 28	<b>2</b>	76 x 32	<b>2</b>	76 x 36	<b>2</b>	76 x 40	<b>2</b>	76 x 48
720	1.4	3.1	1.7	3.9	1.0	2.3	1.2	2.7	1.4	3.1	1.6	3.5	1.7	3.9	2.1	4.7
	<b>4</b>	72 x 32	<b>4</b>	72 x 40	<b>2</b>	72 x 24	<b>2</b>	72 x 28	<b>2</b>	72 x 32	<b>2</b>	72 x 36	<b>2</b>	72 x 40	<b>2</b>	72 x 48
680	1.3	2.9	1.7	3.7	1.0	2.2	1.2	2.6	1.3	2.9	1.5	3.3	1.7	3.7	2.0	4.4
	<b>4</b>	68 x 32	<b>4</b>	68 x 40	<b>2</b>	68 x 24	<b>2</b>	68 x 28	<b>2</b>	68 x 32	<b>2</b>	68 x 36	<b>2</b>	68 x 40	<b>2</b>	68 x 48
640	1.2	2.8	1.6	3.5	0.9	2.1	1.1	2.4	1.2	2.8	1.4	3.1	1.6	3.5	1.9	4.1
	<b>4</b>	64 x 32	<b>4</b>	64 x 40	<b>2</b>	64 x 24	<b>2</b>	64 x 28	<b>2</b>	64 x 32	<b>2</b>	64 x 36	<b>2</b>	64 x 40	<b>2</b>	64 x 48
600	2.3	5.2	2.9	6.5	1.7	3.9	2.0	4.5	2.3	5.2	2.6	5.8	2.9	6.5	3.5	7.8
	<b>8</b>	120 x 32	<b>8</b>	120 x 40	<b>4</b>	120 x 24	<b>4</b>	120 x 28	<b>4</b>	120 x 32	<b>4</b>	120 x 36	<b>4</b>	120 x 40	<b>4</b>	120 x 48
560	2.2	4.8	2.7	6.0	1.6	3.6	1.9	4.2	2.2	4.8	2.4	5.4	2.7	6.0	3.3	7.3
	<b>8</b>	112 x 32	<b>8</b>	112 x 40	<b>4</b>	112 x 24	<b>4</b>	112 x 28	<b>4</b>	112 x 32	<b>4</b>	112 x 36	<b>4</b>	112 x 40	<b>4</b>	112 x 48
520	2.0	4.5	2.5	5.6	1.5	3.4	1.8	3.9	2.0	4.5	2.3	5.1	2.5	5.6	3.0	6.7
	<b>8</b>	104 x 32	<b>8</b>	104 x 40	<b>4</b>	104 x 24	<b>4</b>	104 x 28	<b>4</b>	104 x 32	<b>4</b>	104 x 36	<b>4</b>	104 x 40	<b>4</b>	104 x 48
480	1.9	4.1	2.3	5.2	1.4	3.1	1.6	3.6	1.9	4.1	2.1	4.7	2.3	5.2	2.8	6.2
	<b>8</b>	96 x 32	<b>8</b>	96 x 40	<b>4</b>	96 x 24	<b>4</b>	96 x 28	<b>4</b>	96 x 32	<b>4</b>	96 x 36	<b>4</b>	96 x 40	<b>4</b>	96 x 48
440	1.7	3.8	2.1	4.8	1.3	2.9	1.5	3.3	1.7	3.8	1.9	4.3	2.1	4.8	2.6	5.7
	<b>8</b>	88 x 32	<b>8</b>	88 x 40	<b>4</b>	88 x 24	<b>4</b>	88 x 28	<b>4</b>	88 x 32	<b>4</b>	88 x 36	<b>4</b>	88 x 40	<b>4</b>	88 x 48
400	2.3	5.2	2.9	6.5	1.7	3.9	2.0	4.5	2.3	5.2	2.6	5.8	2.9	6.5	3.5	7.8
	<b>12</b>	120 x 32	<b>12</b>	120 x 40	<b>6</b>	120 x 24	<b>6</b>	120 x 28	<b>6</b>	120 x 32	<b>6</b>	120 x 36	<b>6</b>	120 x 40	<b>6</b>	120 x 48
360	2.1	4.7	2.6	5.8	1.6	3.5	1.8	4.1	2.1	4.7	2.4	5.2	2.6	5.8	3.1	7.0
	<b>12</b>	108 x 32	<b>12</b>	108 x 40	<b>6</b>	108 x 24	<b>6</b>	108 x 28	<b>6</b>	108 x 32	<b>6</b>	108 x 36	<b>6</b>	108 x 40	<b>6</b>	108 x 48
320	1.9	4.1	2.3	5.2	1.4	3.1	1.6	3.6	1.9	4.1	2.1	4.7	2.3	5.2	2.8	6.2
	<b>12</b>	96 x 32	<b>12</b>	96 x 40	<b>6</b>	96 x 24	<b>6</b>	96 x 28	<b>6</b>	96 x 32	<b>6</b>	96 x 36	<b>6</b>	96 x 40	<b>6</b>	96 x 48
280	2.2	4.8	2.7	6.0	1.6	3.6	1.9	4.2	2.2	4.8	2.4	5.4	2.7	6.0	3.6	7.3
	<b>16</b>	112 x 32	<b>16</b>	112 x 40	<b>8</b>	112 x 24	<b>8</b>	112 x 28	<b>8</b>	112 x 32	<b>8</b>	112 x 36	<b>8</b>	112 x 40	<b>8</b>	112 x 48
240	2.3	5.2	2.9	6.5	1.7	3.9	2.0	4.5	2.3	5.2	2.6	5.8	2.9	6.5	3.5	7.8
	<b>20</b>	120 x 32	<b>20</b>	120 x 40	<b>10</b>	120 x 24	<b>10</b>	120 x 28	<b>10</b>	120 x 32	<b>10</b>	120 x 36	<b>10</b>	120 x 40	<b>10</b>	120 x 48
200	2.3	5.2	2.9	6.5	1.7	3.9	2.0	4.5	2.3	5.2	2.6	5.8	2.9	6.5		
	<b>24</b>	120 x 32	<b>24</b>	120 x 40	<b>12</b>	120 x 24	<b>12</b>	120 x 28	<b>12</b>	120 x 32	<b>12</b>	120 x 36	<b>12</b>	120 x 40		
160	2.2	4.8	2.7	6.0	1.6	3.6	1.9	4.2	2.2	4.8						
	<b>28</b>	112 x 32	<b>28</b>	112 x 40	<b>14</b>	112 x 24	<b>14</b>	112 x 28	<b>14</b>	112 x 32						
120	2.3	5.2	2.9	6.5	1.7	3.9										
	<b>40</b>	120 x 32	<b>40</b>	120 x 40	<b>20</b>	120 x 24										
Width in mm	80		100		120		140		160		180		200		240	

260 mm and 280 mm widths are available on request. Can be expanded by block bonding if desired. Heights up to 4.000 mm are possible



# Special components

## Product portfolio



Single tapered beams

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**Beam length:** up to 40 m  
**Width:** 80 to 280 mm  
**Block bonding:** >280 mm  
possible on request  
**Heights:** up to 4,000 mm



Curved beams  
or pre-cambered  
parallel beams

---

**Beam length:** up to 40 m  
**Width:** 80 to 280 mm  
**Block bonding:** >280 mm  
possible on request  
**Heights:** up to 4,000 mm



Double-tapered  
or pitched cambered  
beams

---

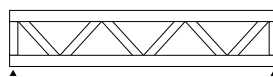
**Beam length:** up to 40 m  
**Width:** 80 to 280 mm  
**Block bonding:** >280 mm  
possible on request  
**Heights:** up to 4,000 mm



Fish beams

---

**Beam length:** up to 40 m  
**Width:** 80 to 280 mm  
**Block bonding:** >280 mm  
possible on request  
**Heights:** up to 4,000 mm



Trussed girders

---

**Span lengths:** >40 m  
**Width:** 80 to 280 mm  
**Block bonding:** >280 mm  
possible on request  
**Heights:** >4,000 mm are possible



Free forms

---

**Lengths:** up to 40 m  
**Widths:** up to 280 mm  
**Block bonding:** >280 mm  
possible on request  
**Heights:** up to 4,000 mm

# Glued Laminated Timber Further processing

## Advantages

- ⊕ High precision with optimal material utilisation
- ⊕ Versatile machining options due to modern technology
- ⊕ Ongoing development through regular and continuous quality control
- ⊕ Professional support during the planning phase
- ⊕ Consultation and services provided by qualified master carpenters
- ⊕ Rapid and cost-efficient assembly on the construction site thanks to a high level of prefabrication

## Further processing – Special components

	Portal Machining Centre	CMS Hermagor	MAKA BC 570 Kleinheubach
Component dimensions and axes.	X-axis (longitudinal direction) Y-axis (transverse direction) Z-axis (vertical stroke) C-axis (rotation) B-axis (panning)	42 m 5.80 m 1.25 m 360° ± 110°	35 m or 41 m up to 4.80 m uo to 1.60 m 360° ± 105°
Precision		±2 mm to 40 m length	±2 mm to 40 m length
Spindle speed		Continuously variable from 0 to 10,000 rpm	Continuously variable from 0 to 12,000 rpm
CNC controller		NUM 1,060W	BWO 920
Online program transfer		CAD/CNC-Working Space	NC Codes from the CNC- Production Control
Workpiece measurement		Renishaw - Services	no services available
Workpiece positioning		Supported by laser	Supported by laser
Automatic changing of tools		Circular magazine with 16 tools Rotary magazine with 2 saw blades max. 750mm	20 tools saw blade max. 800mm
Workpiece fixation		Using vacuum working blocks and single vacuum units	Using flexible vacuum units and hydraulic clamp cylinders
Import formats		*.btl   Direct control of the portal system	NC Codes generated by post - processors. AlphaCam: CAD-Import: Acis, dwg, dxf, IGES, Inventor, Rhino, Step LignoCam: *.btl-Files

### IT Interfaces | Import Formats

2D/3D-DXF (\*.dxf) | 2D/3D DWG (\*.dwg) | ACIS (\*.sat)  
IFC (\*.ifc) | STEP (\*.stp) (\*.ste) (\*.step) | DSTV (\*.stp)

Inventor (\*.ipt) (\*.iam) (\*.3ds) (\*.fbx) (\*.jt) (\*.mwf) (\*.dgn)  
cadwork (\*.2d) und (\*.3d)

## Further processing – Machining capabilities

5-axis CNC machining	Hundegger K3 5-axis 900, Hundegger K2i 5-axis 900 and Hundegger Robot 1,280
6-axis CNC machining	Hundegger K2-Industry 1,280 and Hundegger Robot 1,250
Component dimensions	Length: up to 27 m Height: up to 1,280 mm Width: up to 280 mm

### IT Interfaces | Import Formats

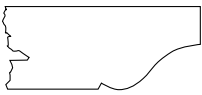
- (1) \*.bvn, \*.bvx | Direct control of the systems
- (2) From SEMA 3D, Dietrich's 3D-CAD/CAM and cadwork \*.bvn, \*.bvx files are created.
- (3) 2D/3D \*.dxf, \*.dwg, \*.sat (ACIS) files can be converted into machine files at an extra charge.



# Further Processing – possibilities and examples

## Rafter and Purlin profiles

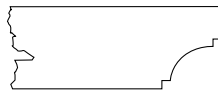
Profile 1



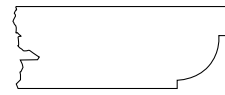
Profile 2



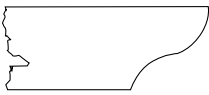
Profile 3



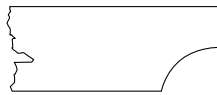
Profile 4



Profile 5



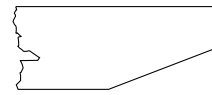
Profile 6



Profile 7

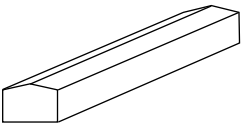


Profile 8

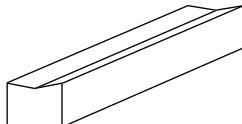


## Valley and hip rafter

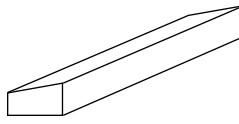
Hip rafters



Valley rafters

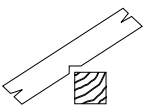


Tapered form

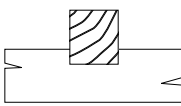


## Carpentry joints

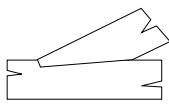
Rafter notch



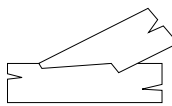
Cross cogging



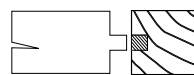
Stepped joint



Double stepped joint



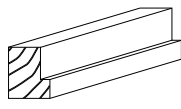
Tenon



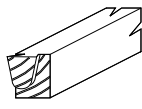
Forked support



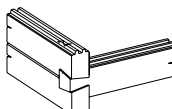
Rebate



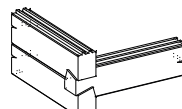
Dovetail joint



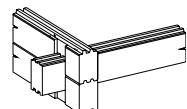
“Tiroler Schloss” corner joint



Dovetail



Log house







EN

**HASSLACHER**  
**NORICA TIMBER**

From **wood** to **wonders**.

# HASSLACHER Glulam Ceiling

The high-performance ceiling system.

# HASSLACHER Glulam Ceiling Overview

## Product standard/certification

EN 14080

## Surface qualities

Visual quality

Industrial quality

## Cross sections

Heights: 60 to 280 mm in 20 mm steps

Widths: 400 mm to 1,280 mm (steps depend on the width of the used raw lamellas)

Lengths: up to 27 m

## Post-processing

possible up to 1,280 mm

## Strength classes

GL24h, GL28h in accordance to EN 14080

(higher strength classes are available on request)

## Wood species

- ⊕ Spruce/fir
- ⊕ Other wood species on request

## Certification

The current certificates are available in the download area of our website at [HASSLACHER.COM](https://www.hasslacher.com).

## Sustainability

The HASSLACHER group stands for a careful use of wood as a resource. Our raw materials come from sustainable and controlled forestry. Our locations are certified according to the strict PEFC standards.





# Quality description

## Characteristics

## Visual Quality

## Industrial Quality

Characteristics	Visual Quality	Industrial Quality
<b>General</b>	Optimised for a visible use, e.g. as visible rafters and beams for carports and upscale residential areas. All knots are sound knots and knotholes are patched. The occurrence of discolouration such as blue stains, red stripes and/or pitch pockets is minimised. The cracks are minimised and hardly any heart centre is present due to core-free cutting. A homogeneous appearance is aspired.	Optimised for non-visual use, e.g. for industrial and production buildings, farming buildings and roof structures, which are subsequently covered by planks. Discolouration such as brownness (nail-holding), blue stain, and/or red stripes are permitted. Fallen-out knots and pitch pockets may casually occur.
<b>Black knots</b>	Permitted, as long as they don't fall out	Permitted
<b>Fallen-out knots</b>	Permitted up to approximately 20 mm, sound knots are permitted	Permitted, the size depends on the strength classes
<b>Wane</b>	Not permitted	Permitted
<b>Rotten areas</b>	Not permitted	Not permitted
<b>Pitch pockets</b>	Permitted up to approximately 5 x 50 mm, larger pockets must be patched	Permitted
<b>Insect infestation</b>	Not permitted	Permitted up to a diameter of 2 mm
<b>Discolouration</b>	Up to approximately 5 % of the surface	Permitted
<b>Planing quality</b>	Rough areas are not permitted. Planer marks up to a length of 10 mm and a depth of 1 mm are permitted	Rough areas and planer marks are permitted
<b>Cracks</b>	Permitted up to a depth of 1/6th of the component width (per side). The required static load carrying capacity must not be impaired.	Permitted up to a depth of 1/6th of the component width (per side). The required static load carrying capacity must not be impaired.
<b>Scope of validity</b>	The specified surface qualities are valid at time of delivery.	
<b>Information</b>	In case of a low wood equilibrium moisture content, a corresponding gap formation between the individual elements has to be expected. In case of a high wood equilibrium moisture content, the elements can swell perpendicular to the layers' fibre direction.	

# HASSLACHER Glulam Ceiling Design and acoustic elements



## Areas of use

- ⊕ Offices and public buildings
- ⊕ Schools and kindergartens
- ⊕ Gyms
- ⊕ Auditoriums and rehearsal rooms

## Advantages

- ⊕ Visually appealing interior architecture
- ⊕ Enhancement of room acoustics
- ⊕ Fast and easy assembly

## Surface qualities

Visual quality  
Industrial quality

## Cross sections

Thicknesses: 80 mm to 280 mm in 20 mm steps  
Widths: 200 to 1,200 mm in 40 mm steps  
Lengths: up to 27 m

## Strength classes

GL24h, GL28h in accordance to EN 14080  
Higher strength classes are available on request

## Degree of openness

Approximately 20 % of the visible surface

## Sound absorption coefficient

$\alpha_w = 0.10$



# Joint formation

## Tongue and groove

### Element pattern

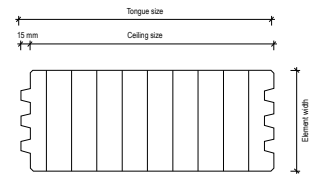
Element thickness: in 20 mm steps  
 Element width: in 40 mm steps  
 Net width = tongue size – 15 mm  
 Possible length up to 27 m

### Thickness

60, 80 mm  
 100, 120, 140 mm  
 160, 180 mm  
 200, 220, 240 mm  
 260, 280 mm

### Tongue and Groove

1 Tongue and groove  
 2 Tongue and groove  
 3 Tongue and groove  
 4 Tongue and groove  
 5 Tongue and groove



## Tongue and groove, including longitudinal rebate

### Element pattern

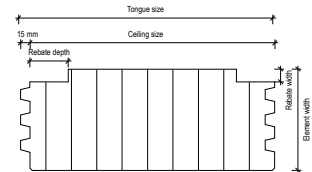
Element thickness: in 20 mm steps  
 Element width: in 40 mm steps  
 Net width = tongue size – 15 mm  
 Possible length up to 27 m

### Thickness

60, 80 mm  
 100, 120, 140 mm  
 160, 180 mm  
 200, 220, 240 mm

### Tongue and Groove

1 Tongue and groove  
 2 Tongue and groove  
 3 Tongue and groove  
 4 Tongue and groove



### Rebate

Depth: 60 mm, width: 20 mm

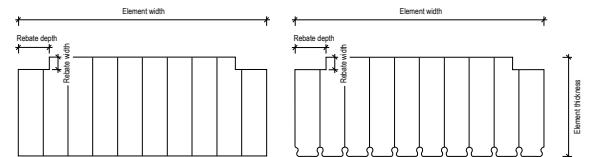
## Longitudinal rebate

### Element pattern

Element thickness: in 20 mm steps  
 Element width: in 40 mm steps  
 Net width = finished size  
 Possible length up to 27 m

### Rebate

Depth: 50 mm  
 Width: 20 mm



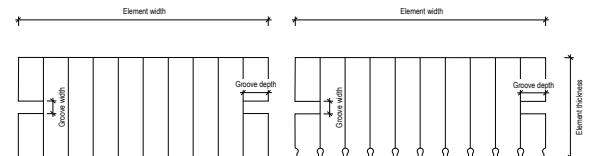
## Single groove with loose tongue

### Element pattern

Element thickness: in 20 mm steps  
 Element width: in 40 mm steps  
 Net width = finished size  
 Possible length up to 27 m

### Groove

Depth: 40 mm  
 Width: 20 mm



## Longitudinal rebate with single groove and loose tongue

### Element pattern

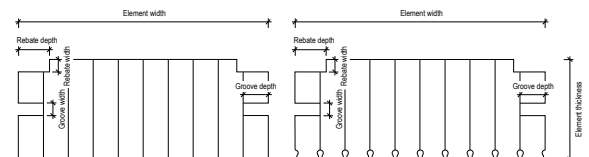
Element thickness: in 20 mm steps  
 Element width: in 40 mm steps  
 Net width = finished size  
 Possible length up to 27 m

### Rebate

Depth: 50 mm  
 Width: 20 mm

### Groove

Depth: 40 mm  
 Width: 20 mm







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**HASSLACHER**  
**NORICA TIMBER**

From **wood** to **wonders**.

# Glued solid timber Duo/Trio/Quattro

The dimensionally stable aesthete.

# Glued solid timber DUO/TRIO/Quattro Overview



## Product standard/certification

EN 14080

## Surface qualities

Visual quality  
Industrial quality

## Cross sections

Heights: 100 to 280 mm  
Widths: 80 to 200 mm in 20 mm steps  
Lengths: Standard length: 13.5 m  
Special lengths: from 4 m up to 16 m  
Other cross sections are available on request

## Strength classes

C24  
C30 (on request)

## Wood species

- ⊕ Spruce
- ⊕ Other types of wood on request

## Certification

The current certificates are available in the download area of our website at [HASSLACHER.COM](https://www.hasslacher.com).

## Sustainability

The HASSLACHER group stands for a careful use of wood as a resource. Our raw materials come from sustainable and controlled forestry. Our locations are certified according to the strict PEFC standards.





# Quality description

Characteristics	Visual Quality	Industrial Quality
<b>General</b>	Optimised for a visible use, e.g. as visible rafters and beams for carports and upscale residential areas. All knots are sound knots and knotholes are patched. The occurrence of discolorations such as blue stains, red stripes and/or pitch pockets is minimised. The cracks are minimised and hardly any heart centre is present due to core-free cutting. A homogeneous appearance is aspired.	Optimised for a nonvisual use. Discolorations such as blue stain, nail-proof brown and/or red stripes are permitted. Fallen-out knots and pitch pockets may casually occur. For loadbearing and non-loadbearing use in engineered timber structures with lower aesthetic requirements.
<b>Black knots</b>	Healthy knots	Permitted
<b>Falling knots</b>	Permitted up to approximately 20 mm, sound knots are permitted	Permitted
<b>Pith</b>	Lamellas are free of pith	Permitted
<b>Wane</b>	Not permitted	Not permitted
<b>Rotten areas</b>	Not permitted	Not permitted
<b>Pitch pockets</b>	Permitted up to approximately 5 x 50 mm, larger pockets must be patched	Permitted
<b>Insect infestations</b>	Not permitted	Permitted up to a diameter of 2 mm
<b>Red stripes</b>	Up to approximately 5% of the surface	Permitted
<b>Blue stain</b>	Up to approximately 5% of the surface	Permitted
<b>Planing quality</b>	Rough areas are not permitted. Planer marks up to a length of 10 mm and a depth of 1 mm are permitted	Rough areas and planer marks are permitted
<b>Cracks</b>	Depth: up to 50% of the component width Crack width: max. 3 mm Crack length: no restrictions	Depth: up to 50% of the component width Crack width: no restriction Crack length: no restriction
<b>Scope of validity</b>	The specified surface qualities are valid at time of delivery.	

# Glued solid timber DUO/TRIO/Quattro Product portfolio

## Glued solid timber – package units

Height in mm	t	m <sup>3</sup>	t	m <sup>3</sup>	t	m <sup>3</sup>	t	m <sup>3</sup>	t	m <sup>3</sup>	t	m <sup>3</sup>	t	m <sup>3</sup>
Max.	unit	cm	unit	cm	unit	cm	unit	cm	unit	cm	unit	cm	unit	cm
280					1.5	3.49							2.5	5.82
					<b>8</b>	112 x 24							<b>8</b>	112 x 40
					TRIO						QUINTO			
260					1.4	3.24								
					<b>8</b>	104 x 24								
					TRIO									
240	2.2	4.99	2.7	6.24	1.6	3.74	1.9	4.37	2.2	4.99	2.5	5.62	2.7	6.24
	<b>20</b>	120 x 32	<b>20</b>	120 x 40	<b>10</b>	120 x 24	<b>10</b>	120 x 28	<b>10</b>	120 x 32	<b>10</b>	120 x 36	<b>10</b>	120 x 40
	DUO		DUO		DUO		TRIO		QUATTRO		TRIO		QUINTO	
220	2	4.58	2.5	5.72	1.5	3.43	1.8	4	2	4.58	2.3	5.15	2.5	5.72
	<b>20</b>	110 x 32	<b>20</b>	110 x 40	<b>10</b>	110 x 24	<b>10</b>	110 x 28	<b>10</b>	110 x 32	<b>10</b>	110 x 36	<b>10</b>	110 x 40
	DUO		DUO		DUO		TRIO		QUATTRO		TRIO		QUINTO	
200	2.2	4.99	2.7	6.24	1.6	3.74	1.9	4.37	2.2	4.99	2.5	5.62	2.7	6.24
	<b>24</b>	120 x 32	<b>24</b>	120 x 40	<b>12</b>	120 x 24	<b>12</b>	120 x 28	<b>12</b>	120 x 32	<b>12</b>	120 x 36	<b>12</b>	120 x 40
	DUO		DUO		DUO		DUO		QUATTRO		TRIO		TRIO	
180	2	4.49	2.5	5.62	1.5	3.37	1.7	3.93	2	4.49	2.2	5.05		
	<b>24</b>	108 x 32	<b>24</b>	108 x 40	<b>12</b>	108 x 24	<b>12</b>	108 x 28	<b>12</b>	108 x 32	<b>12</b>	108 x 36		
	DUO		DUO		DUO		TRIO		QUATTRO		TRIO			
160	2.1	4.66	2.6	5.82	1.5	3.49			2.1	4.66				200
	<b>28</b>	112 x 32	<b>28</b>	112 x 40	<b>14</b>	112 x 24			<b>14</b>	112 x 32				
	DUO		DUO		DUO				QUATTRO					
140	2.1	4.66	1.9	4.37	1.5	3.49	1.8	4.08				180		
	<b>32</b>	112 x 32	<b>24</b>	112 x 30	<b>16</b>	112 x 24	<b>16</b>	112 x 28						
	DUO		DUO		TRIO		DUO							
120	2.2	4.99			1.6	3.75						160		
	<b>40</b>	120 x 32			<b>20</b>	120 x 24								
	DUO				TRIO									
100	2.2	4.99										140		
	<b>48</b>	120 x 32												
	DUO													
Width in mm	80		100		120									

## Log house profile

Net size = nominal size – 15 mm

Tongue and groove joint

Thickness	80 mm	100–140 mm	160–180 mm	200–240 mm
Connection type	1 tongue-and-groove-joint	2 tongue-and-groove-joints	3 tongue-and-groove-joints	4 tongue-and-groove-joints





EN

**HASSLACHER**  
**NORICA TIMBER**

From **wood** to **wonders**.



Structural finger jointed solid timber & GLT<sup>®</sup>

The beam with the character of solid timber.

# Structural finger jointed solid timber & GLT® Overview

## Product standard/certification

EN 15497  
ETA-13/0644

## Tensile proof loading

ETA-13/0644  
ON B 4125

## Surface qualities

Visual quality  
Industrial quality

## Maximum cross sections

Heights: 60 to 300 mm in 20 mm steps  
Widths: 50 mm to 160 mm in 20 mm steps  
Lengths: Standard 13 m  
Specific lengths from 2.5 m to 18.0 m are possible

## Strength classes

C24, C24M

## Wood species

Spruce/Fir  
Pine

## Certification

The current certificates are available in the download area of our website at [HASSLACHER.COM](https://www.hasslacher.com).

## Sustainability

The HASSLACHER group stands for a careful use of wood as a resource. Our raw materials come from sustainable and controlled forestry. Our locations are certified according to the strict PEFC standards.





# GLT<sup>®</sup> – Girder Longitudinally Tensiletested

## Triple security

Which is completely tested, is the safest! Each individual GLT<sup>®</sup> – girder longitudinally tensiletested as well as its finger joint connections are tested under extreme conditions.

## Safety step 1: Quality grading

Specifically selected and certified sawn timber is produced in our sawmill, where it is technically dried and carefully pre-graded by our specialists.

## Safety step 2: High-Tech strength grading

Using state-of-the-art X-ray and laser technology, strength-relevant wood defects are detected and eliminated without any compromise.

## Safety step 3: Patented tensile test

In common, the strength of loadbearing components is only monitored on a random basis – not in case of GLT<sup>®</sup>. Here, each individual GLT<sup>®</sup>, without exception, is subjected to the patented tensile test procedure according to ON B 4125, thus ensuring a complete level of quality.

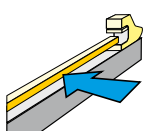
## Advantages

- Safety in the finger joints' loadbearing behaviour
- Safety in the grading process
- The same design as glued laminated timber
- Up to 20% of material savings if compared to conventional solid construction timber
- Up to 15% in cost savings if compared to glued laminated timber

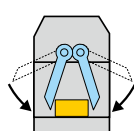


© JOST&BAYER

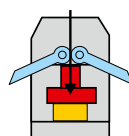
## Tensile test procedure according to ON B 4125



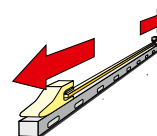
Entry



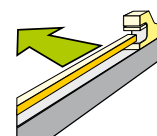
Centring



Clamping



Tensile testing



Exit

# Structural finger jointed solid timber & GLT® Product portfolio

## Spruce/fir – available cross sections and package units

Height in mm	t		m <sup>3</sup>		t		m <sup>3</sup>		t		m <sup>3</sup>		t		m <sup>3</sup>	
	unit	cm	unit	cm	unit	cm	unit	cm	unit	cm	unit	cm	unit	cm	unit	cm
300			2.5	5.62	2.8	6.24	2.8	6.24								
			<b>24</b>	120 x 36	<b>20</b>	120 x 40	<b>16</b>	120 x 40								
280			2.4	5.24	2.6	5.82	2.6	5.82	2.4	5.24						
			<b>24</b>	112 x 36	<b>20</b>	112 x 40	<b>16</b>	112 x 40	<b>12</b>	112 x 36						
260			2.2	4.87	2.4	5.41	2.4	5.41								
			<b>24</b>	104 x 36	<b>20</b>	104 x 40	<b>16</b>	104 x 40								
240			2.0	4.49	2.2	4.99	2.2	4.99	2.0	4.49	2.4	5.24	2.2	4.99		
			<b>24</b>	96 x 36	<b>20</b>	96 x 40	<b>16</b>	96 x 40	<b>12</b>	96 x 36	<b>12</b>	96 x 42	<b>10</b>	96 x 48		
220			2.3	5.15	2.6	5.72	2.6	5.72	2.3	5.15	2.7	6.01				
			<b>30</b>	110 x 36	<b>25</b>	110 x 40	<b>20</b>	110 x 40	<b>15</b>	110 x 36	<b>15</b>	110 x 42				
200	2.0	4.55	2.1	4.68	2.3	5.20	2.3	5.20	2.1	4.68	2.5	5.46	2.8	6.24		
	<b>35</b>	110 x 35	<b>30</b>	100 x 36	<b>25</b>	100 x 40	<b>20</b>	100 x 40	<b>15</b>	100 x 36	<b>15</b>	100 x 42	<b>15</b>	100 x 48		
180	2.2	4.91	2.3	5.05	2.5	5.62	2.5	5.62	2.3	5.05	2.7	5.90				
	<b>42</b>	108 x 35	<b>36</b>	108 x 36	<b>30</b>	108 x 40	<b>24</b>	108 x 40	<b>18</b>	108 x 36	<b>18</b>	108 x 42				
160			2.4	5.24	2.6	5.82	2.6	5.82	2.4	5.24	2.8	6.12	3.1	6.99		
			<b>42</b>	112 x 36	<b>35</b>	112 x 40	<b>28</b>	112 x 40	<b>21</b>	112 x 36	<b>21</b>	112 x 42	<b>21</b>	112 x 48		
140	2.3	5.10	2.4	5.24	2.6	5.82	2.6	5.82	2.4	5.24	2.8	6.12				
	<b>56</b>	112 x 35	<b>48</b>	112 x 36	<b>40</b>	112 x 40	<b>32</b>	112 x 40	<b>24</b>	108 x 36	<b>24</b>	112 x 42				
120	2.2	4.91	2.3	5.05	2.5	5.62	2.5	5.62	2.3	5.05						
	<b>63</b>	108 x 35	<b>54</b>	108 x 36	<b>45</b>	108 x 40	<b>36</b>	108 x 40	<b>27</b>	108 x 36						
100	2.3	5.01	2.3	5.15	2.6	5.72	2.6	5.72								
	<b>77</b>	110 x 35	<b>66</b>	110 x 36	<b>55</b>	110 x 40	<b>44</b>	110 x 40								
80			2.4	5.24	2.6	5.82										
			<b>84</b>	112 x 36	<b>70</b>	112 x 40										
60			0.9	1.9												
			<b>108</b>	112 x 36												
Width in mm	50		60		80		100		120		140		160			

Available exclusively in NSI quality and with a length of 13 m

NSI quality: produced of double-width  
NSI select: produced of single-stem

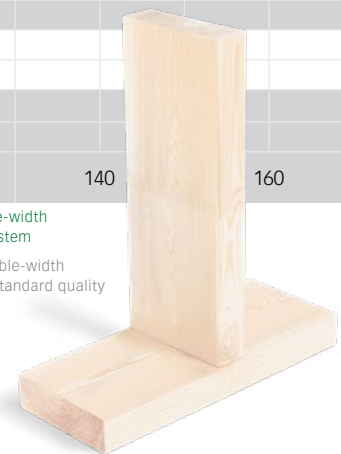
Available exclusively in NSI quality and with a length of 5 m

Cross section produced of double-width  
Quality: maximum possible is standard quality

## PINE

Height in mm	t		m <sup>3</sup>	
	unit	cm	unit	cm
240	2.0	4.49		
	<b>24</b>	96 x 36		
200	2.1	4.68		
	<b>30</b>	100 x 36		
180	2.3	5.05		
	<b>36</b>	100 x 36		
160	2.4	5.24		
	<b>42</b>	112 x 36		
140	2.4	5.24		
	<b>48</b>	112 x 36		
120	2.3	5.05		
	<b>54</b>	108 x 36		
100	2.3	5.15		
	<b>66</b>	110 x 36		
80	2.4	5.24		
	<b>84</b>	112 x 36		
Width in mm	60			

Available exclusively in NSI quality



### Advantages

- ⊕ Higher durability than spruce
- ⊕ High dimensional stability
- ⊕ Cost-efficient
- ⊕ Also available as pressure-impregnated modification

### Areas of application

- ⊕ Post and beam structures
- ⊕ Timber frame constructions
- ⊕ Rafters
- ⊕ Supporting structures



# Further Processing

## Advantages

- ⊕ High precision with an optimal material utilization
- ⊕ Versatile machining options due to modern technology
- ⊕ Ongoing development through regular and continuous quality control
- ⊕ Professional support during the engineering phase
- ⊕ Consultation and services provided by qualified master carpenters
- ⊕ Rapid and cost-efficient assembly on the construction site thanks to a high level of prefabrication

## Further Processing – Machining Capabilities

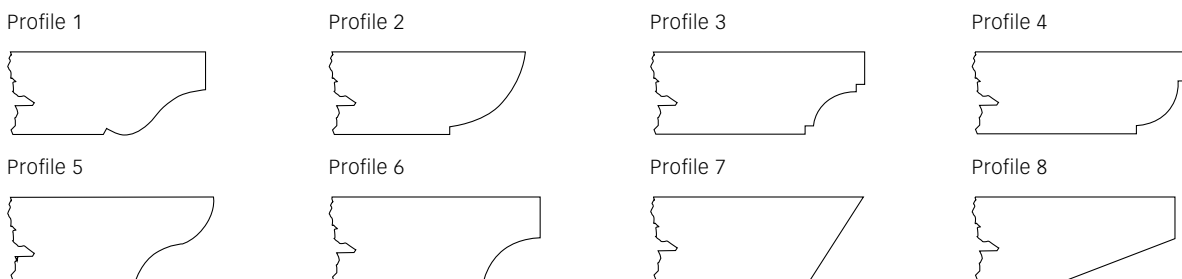
5-axis CNC machining	Hundegger K2i 450 (HPH)
Component dimensions	Length: up to 14.5 m Height: up to 450 mm Width: up to 280 mm

### IT Interfaces | Import Formats

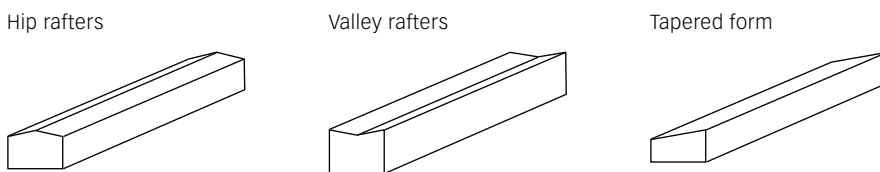
- (1) \*.bvn, \*.bvx | Direct control of the systems
- (2) From SEMA 3D, Dietrich's 3D-CAD/CAM and cadwork \*.bvn, \*.bvx files are created.
- (3) 2D/3D \*.dxf, \*.dwg, \*.sat (ACIS) files can be converted into machine files at an extra charge.

## Further Processing – Possibilities and examples

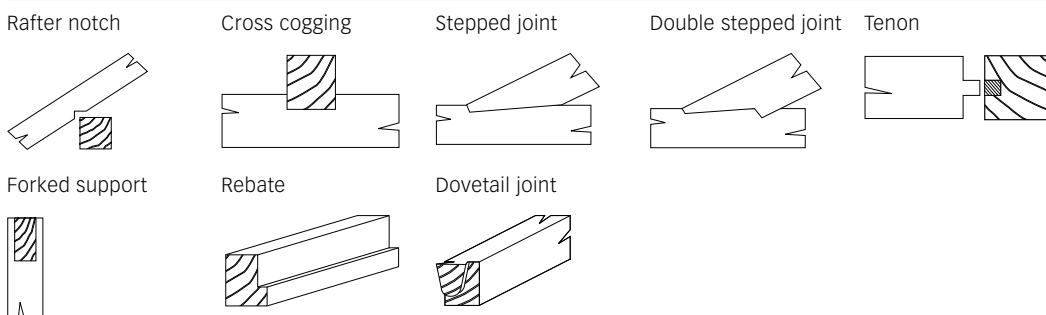
### Rafter and Purlin profiles



### Valley and hip rafter



### Carpenter joints and profiles



# Structural finger jointed solid timber & GLT®

## Quality description

Parameters	Visual Quality	Industrial Quality
<b>Description</b>	For loadbearing and non-loadbearing components in visual form, such as visible rafters, visible beams, etc.	For loadbearing and non-loadbearing components in non-visual form, e.g. as lightweight timber construction, covered rafters and purlins, etc.
<b>Wood species</b>	Spruce	Spruce (fir is also possible) or pine
<b>Mistletoe infestation</b>	Not permitted	Not permitted
<b>Moisture content</b>	Maximum of 18%	Maximum of 18%
<b>Cut type</b>	Separated at the core	Separated at the core
<b>Bark embedding</b>	Not permitted	To be treated as knots
<b>Pitch pockets</b>	Up to 5 mm wide, no clusters	Permitted
<b>Surface</b>	Smoothly planed and chamfered on all sides	Planed and chamfered on all sides, rough areas are permitted
<b>Dimensional accuracy</b>	Dimensional tolerance class 2 according to EN 336 has to be applied. In case of visual and standard quality, undersize of up to 2 mm is possible.	
<b>Finishes</b>	Trimmed square, dimensional accuracy of length according to EN 390	
<b>Wane</b>	Not permitted	Up to 10% of the cross section
<b>Knots<sup>(1)</sup></b>	Up to 40% of the cross section's side <sup>(2)</sup>	Up to 40% of the cross section's side
<b>Average annual ring width<sup>(3)</sup></b>	Up to 6 mm	Up to 6 mm
<b>Grain slope</b>	Up to 12 cm/m	Up to 12 cm/m
<b>Shrinkage cracks</b>	Crack width of up to 3 mm	Permissible crack depth of up to 50%
<b>Edge cracks</b>	Not permitted	Permitted
<b>Lightning/frost cracks, ring shake</b>	Not permitted	Not permitted
<b>Blue stain</b>	Not permitted	Permitted
<b>Nailing stripes (red, brown)</b>	Not permitted	Permitted
<b>Red and white rot</b>	Not permitted	Not permitted
<b>Compression wood / redwood</b>	Up to 40% of the surface	Up to 40% of the surface
<b>Insect damage</b>	Not permitted	Permissible up to a diameter of 2 mm
<b>Scope of validity</b>	The specified surface qualities are valid at time of delivery	

(1) A knot diameter of up to 40% of the cross section's height or width is permitted

(2) loose knots, falling-out knots, knocked-out and isolated knots with black rimmed knots are permitted up to 20 mm of the knot diameter

(3) The average annual ring width according to EN 1310 is applicable. Thereby, an area of 25 mm around the pith is not taken into account. For reasons of inevitable grading errors and variability of moisture content within the cross sections, the requirements and grading criteria specified in the table must be complied in 95% of the supplied pieces. In case of mechanical grading, related parameters are according to EN 14081. Therefore, deviations from the ones shown in the table may occur.



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**HASSLACHER**  
**NORICA TIMBER**

From **wood** to **wonders**.

## Surfaced timber

Versatility in indoor and outdoor areas.



# Surfaced timber

## At a glance

### Areas of application

- ⊕ Wall claddings
- ⊕ Ceiling panelling
- ⊕ Parquet floors
- ⊕ Prefabricated façade elements
- ⊕ Decking boards
- ⊕ Swimming pier surfaces
- ⊕ Soffits
- ⊕ Privacy screen
- ⊕ Wood applied in the garden

### Fields of use

- ⊕ Indoors – walls and floors
- ⊕ Façades
- ⊕ Terrace
- ⊕ Supporting structures

### Advantages

- ⊕ Pleasant and comfortable room climate
- ⊕ Thermal insulation and heat storage
- ⊕ Easy workability
- ⊕ Optimised sound insulation and room acoustics
- ⊕ High fire and chemical resistance
- ⊕ Positive impacts on climate protection through storage of carbon dioxide (CO<sub>2</sub>)
- ⊕ Ecologically sustainable materials
- ⊕ Aesthetic and visually appealing
- ⊕ A pleasant and natural feel



# Overview

## Product standard/certification

- ⊕ ÖNORM B 3020 Profiles for wood panelling and cladding
- ⊕ ÖNORM EN 13990 Wood flooring – Solid softwood floor boards
- ⊕ ÖNORM EN 14342 Wood flooring and parquet
- ⊕ ÖNORM EN 14519 Solid softwood panelling and cladding –  
Machined profile with tongue and groove
- ⊕ ÖNORM EN 14915 Solid wood panelling and cladding
- ⊕ ÖNORM EN 15146 Solid softwood panelling and cladding –  
Machined profiles without tongue and groove

## Qualities

- ⊕ A VEH 100% A VEH
- ⊕ AB TOP min. 60% A VEH, max. 40% B VEH
- ⊕ AB VEH min. 30% A VEH, max. 70% B VEH
- ⊕ AB US min. 70% AB VEH, max. 30% B-Sort.
- ⊕ B-Sort.
- ⊕ Rough tongue and groove boards
- ⊕ C

## Cross sections

Thicknesses: 12.5 mm up to 100 mm  
Widths: 25 mm up to 300 mm  
Lengths: Standard – 4 m; 2.0 to 5.1 m in dependence of each item

## Wood species

Spruce/fir, pine, larch, thermally modified wood

## Surface treatment and finishing

Vacuum/high pressure impregnation Hazard class 3 (Standard)  
Hazard class 4 (on request)

Thermal modification Thermal treatment  
Vaporization

Brushes

Further refinements, such as painting and coatings, are available on request

## Certification

The current certificates are available in the download area of our website at [HASSLACHER.COM](https://www.hasslacher.com).












## Sustainability

The HASSLACHER group stands for a careful use of wood as a resource. Our raw materials come from sustainable and controlled forestry. Our locations are certified according to the strict PEFC standards.











# Surfaced timber Product portfolio

## Surfaced timber's standard portfolio

	Profile		Wood species	Thickness (mm)	Width (mm)	Length (mm)	Quality	Piece/bundle			
Facades	Edge-rounded Rhombus		EU Larch	19	96	4	AB-US	6			
			EU Larch	19	116	4	AB-US	6			
			EU Larch	19	146	4	AB-US	6			
			EU Larch	25	65	4	AB-VEH	8			
	Rhombus for invisible panel installations		EU Larch	24	68	4	AB-US	5			
			EU Larch	24	115	4	AB-US	5			
	Rhombus tongue and groove		EU Larch	24	95	4	AB-US	5			
			EU Larch	24	115	4	AB-US	5			
	C Chamfer profile		Thermo Spruce	19	146	4	AB-VEH	6			
	CS Strip/ flooring chamfer		EU Larch	19	146	4	AB-US	6			
EU Larch			19	146	4	B-Sort.	6				
EU Larch			24	146	4	AB-US	5				
F Trapezoidal profile		EU Larch	19	146	4	AB-US	6				
Scale formwork		Spruce	25	146	4	AB-VEH	6				
		EU Larch	25	146	4	AB-VEH	6				
D Curved log wall		Spruce	19	116	4	AB-US	6				
		Spruce	24	116	4	AB-VEH	5				
Smooth Sided Cladding + Construction Timber	AF Smooth-edged plank flooring		Spruce	19	45	2,5	AB-VEH	12			
			Spruce	19	72	2,5	AB-VEH	12			
			Spruce	19	96	3,0/4,0	AB-VEH	6			
			Spruce	19	96	4	AB-US	6			
			Spruce	19	116	3,0/4,0	AB-VEH	6			
			Spruce	19	116	4	AB-US	6			
			Spruce	19	146	3,0/4,0/5,0	AB-VEH	6			
			Spruce	19	146	4	AB-US	6			
			Spruce	19	170	4	AB-VEH	6			
			Spruce	19	196	4	AB-VEH	6			
			Spruce	24	146	4	AB-VEH	5			
			Spruce	25	45	2,5	AB-VEH	10			
			Spruce	35	35	2,5	AB-VEH	9			
			Spruce	35	55	2,5	AB-VEH	8			
			Spruce	45	45	3,0/4,0	AB-VEH	6			
			Spruce	45	75	3,0/4,0	AB-VEH	4			
			Spruce	70	70	4	AB-VEH	4			
			Spruce	90	90	4	AB-VEH	2			
			EU Larch	19	96	4	AB-US	6			
			EU Larch	19	116	4	AB-US	6			
			EU Larch	19	146	4	AB-US	6			
			EU Larch	19	176	4	AB-US	6			
			EU Larch	19	196	4	AB-US	6			
			EU Larch	24	146	4	AB-US	5			
			EU Larch	32	146	4	AB-US	4			
			EU Larch	45	146	4	AB-US	3			
			Wooden strips		Spruce	19	56	4	AB-TOP	12	
					EU Larch	19	56	4	AB-VEH	12	
			Deckings	Finely grooved decking boards		EU Larch	25	144	4	AB-US	4
						EU Larch	33	144	4	AB-US	3
Pressure-treated pine	25	144				4	AB-VEH	4			










## Surfaced timber's standard portfolio

	Profile		Wood species	Thickness (mm)	Width (mm)	Length (mm)	Quality	Piece/bundle
Deckings	Smooth decking with round edges		EU Larch	25	144	4	AB-US	4
			EU Larch	33	144	4	AB-US	3
			EU Larch	45	144	4	AB-US	3
			Termo-pine	26	118	3,9-5,1	AB-VEH	4
			Termo-pine	26	144	3,9-5,1	AB-VEH	4
	Standard decking		Siberian Larch	28	144	3,98	AB	4
	Thermo Decking Ash		Larch/Thermo Ash	28	144	6	A	4
	Terrace supporting construction		EU Larch	35	72	4	AB-US	6
			EU Larch	45	72	4	AB-US	4
			Pressure-treated pine	40	70	4	AB-VEH	6
Mini Glulam		EU Larch	40	70	3,97	NSI		
		EU Larch	50	80	3,97	NSI		
		EU Larch	90	90	3,97	NSI		
		EU Larch	100	100	3,97	NSI		
		EU Larch	120	120	3,97	NSI		
Profiled Timber	F Trapezoidal profile		Spruce	12,5	96	3,0/4,0	AB-US	10
			Spruce	15	116	4	AB-US	7
			Spruce	19	116	4	AB-US	6
			Spruce	19	146	4	AB-VEH	6
			Spruce	19	146	4	AB-US	6
			Spruce	19	146	4	B-Sort.	6
			EU Larch	19	146	4	AB-US	6
	C Chamfer profile		Spruce	12,5	96	2,0/3,0/4,0	AB-US	10
			Spruce	15	116	3,0/4,0/5,0	AB-US	7
			Spruce	19	116	4	AB-US	6
			Spruce	19	146	4	AB-TOP	6
			Spruce	19	146	4	AB-VEH	6
			Spruce	19	146	4	AB-US	6
			Spruce	19	146	4	B-Sort.	6
			Pine	19	146	4	AB-VEH	6
	CS Strip/ flooring chamfer		Spruce	19	116	4	AB-VEH	6
			Spruce	19	116	4	AB-US	6
			Spruce	19	116	4	B-Sort.	6
			Spruce	19	121	3,0/4,0/5,0	AB-US	6
			Spruce	19	146	3,0/4,0/5,0	AB-VEH	6
			Spruce	19	146	4	AB-US	6
			Spruce	19	146	3,0/4,0/5,0	B-Sort.	6
			Spruce	19	171	4	AB-US	6
			Spruce	24	146	4	AB-TOP	5
			Spruce	24	146	4,0/5,0	AB-VEH	5
			Spruce	24	146	4	AB-US	5
			Spruce	24	146	4	B-Sort.	5
			Spruce	27	146	4	AB-VEH	4
Spruce	27	146	4	B-Sort.	4			
Spruce	32	146	4	AB-VEH	4			
Spruce	32	146	4	AB-US	4			
Spruce	32	146	4	B-Sort.	4			
Spruce	32	171	4,0/5,0	AB-VEH	4			
Spruce	32	171	4	AB-US	4			

# Surfaced timber

## Product portfolio

### Surfaced timber's standard portfolio

	Profile		Wood species	Thickness (mm)	Width (mm)	Length (mm)	Quality	Piece/bundle	
Profilled Timber			Spruce	32	171	4,0/5,0	B-Sort.	4	
			Pine	19	146	4	AB-US	6	
			Pine	24	146	4	AB-US	5	
			EU Larch	19	146	4	AB-US	6	
			EU Larch	19	146	4	B-Sort.	6	
			EU Larch	24	146	4	AB-US	5	
	Fire protection planks with keyway			Spruce	40	146	4,0/5,0	AB-VEH	3
				Spruce	40	146	4	B-Sort.	3
				Spruce	40	171	4	AB-VEH	3
				Spruce	40	171	4	B-Sort.	3
	Double tongue and groove fire protection planks			Spruce	40	146	4,0/5,0	AB-TOP	3
				Spruce	40	146	4,0/5,0	B-Sort.	3
	E Softline-Profil			Spruce	14	121	4	AB-US	7
				Spruce	15	116	4	AB-US	7
				Spruce	19	121	4	AB-US	6
				Spruce	19	146	4	AB-VEH	6
				Spruce	19	146	4	AB-US	6
				Spruce	19	146	4	B-Sort.	6
	O Wooden flooring			Spruce	19	116	4	AB-VEH	6
				Spruce	19	116	4	AB-US	6
Spruce				19	116	4	B-Sort.	6	
Spruce				19	116	4	Rough tongue and groove boards	6	
Spruce				19	146	4	AB-US	6	
Spruce				24	146	4,0/5,0	AB-VEH	5	
Spruce				24	146	4	AB-US	5	
Spruce				24	146	4	B-Sort.	5	
Pine				19	116	4	AB-VEH	6	
Pine				19	116	4	AB-US	6	
Pine				19	146	4	AB-US	6	
Pine				35	146	4	AB-US	4	
EU Larch				19	116	4	AB-US	6	
Battens				Wood Paneling Profile A3		Spruce	22	100	4
	Spruce	22	120			4	35 Select	5	
	Spruce	22	150			4	35 Select	5	
	Spruce	24	73			4	B-Sort.	8	
	Spruce	27	105			4	35 Select	4	
	Spruce	30	73			4	B-Sort.	8	
	Decking Battens			Spruce	23	48	4	III/IV	10
				Spruce	28	38	4	III/IV	12
				Spruce	28	48	4	III/IV	8
				Spruce	38	38	4	III/IV	9
				Spruce	38	48	4	III/IV	6
				Spruce	38	58	4	III/IV	6
				Spruce	38	78	4	III/IV	6
				Spruce	48	48	4	III/IV	4
Spruce	48	58	4	III/IV	4				
Spruce	48	78	4	III/IV	4				

Special profiles are available on request



EN

**HASSLACHER**  
**NORICA TIMBER**

From **wood** to **wonders**.



## Sawn timber

Sawn timber for manufacturers.

# Sawn Timber

## At a glance

### Products

- + Lamellas for glued laminated timber and cross laminated timber
- + Lamellas for laminated beams and finger jointed structural timber, core-free or separated from core
- + Rough lumber
- + Vertical grain lumber, lamellas and finger-jointed goods
- + Battens, larger battens and posts
- + Square cut lumber
- + Side boards for the packaging industry
- + Random width side boards
- + Sawmill by-products

### Grading

- + In accordance with Austrian Timber Trade Practices
- + By arrangement and in accordance with guidelines
- + Strength-graded in acc. with EN 14081

### Advantages

- + 100% natural and renewable raw material
- + From sustainable forestry, no destructive exploitation
- + CO<sub>2</sub> storage
- + Recyclable and CO<sub>2</sub>-neutral thermal usage
- + The best structural properties with low self-weight
- + Thermally insulating and therefore energy-saving building material
- + Natural supplier of energy

### Certification

The current certificates are available in the download area of our website at [HASSLACHER.COM](https://www.hasslacher.com).

### Sustainability

The HASSLACHER group stands for a careful use of wood as a resource. Our raw materials come from sustainable and controlled forestry. Our operations are certified according to the strict PEF standards.





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# Pellets

Renewable energy supplied by nature.





# Pellets

# Technical data

## Product standard

EN ISO 17225-2

## Certifications

- ⊕ DINplus certification programme for “Wood pellets for use in small furnaces”, certificate 7A120
- ⊕ ENplus-A1 – European Pellet Council – ENplus Manual for the certification of wood pellets for heating purposes, certificate AT010

## Characteristic values according to ENplus-A1

Diameter		6 mm	ISO 17829
Length	<	40 mm	ISO 17829
Water content	<	10 Ma%	ISO 18134
Ash content	<	0.70 Ma%	ISO 18122
M-strength	>	98 Ma%	ISO 17831-1
Fines content (<3.15 mm)	<	0.5 w%	ISO 18846
Calorific value	>	4.6 kWh/kg	ISO 18125
Bulk density	<	750 kg/m <sup>3</sup>	ISO 17828
Ash melting temperature	>	1,200° C	CEN/TC 15370-1

## Storage

Store product in dry conditions. The pellets must be protected against moisture.

## Application

Use only in approved and appropriate heating appliances in compliance with the manufacturer’s instruction and statutory regulations.

## Packaging units

Bagged goods	15 kg/bag 72 bags/pallet equivalent to 1,080 kg/pallet
Big Bag	approx. 1,000 kg
Pump silo truck	3 to 25 t/delivery
Batches on truck	Up to 25 t/delivery

## Certification

The current certificates are available in the download area of our website at [HASSLACHER.COM](https://www.hasslacher.com).





# Formwork panels

The ecological, dimensionally stable solution for concrete surfaces.



# Formwork panels

## Product range

### Panel sizes

**Thickness** 21 mm, 27 mm

**Sizes** 500 x 1,000 mm, 500 x 1,500 mm, 500 x 2,000 mm, 500 x 2,500 mm, 500 x 3,000 mm

### Packaging units

- ⊕ Every package is wrapped in a plastic hood (with UV filter).
- ⊕ Other packaging units can be supplied upon request.

Thickness	Size (mm)	Units per package	m <sup>2</sup> per package
21 mm	500 x 1,000	2 x 50 units	50 m <sup>2</sup>
	500 x 1,500	2 x 50 units	75 m <sup>2</sup>
	500 x 2,000	2 x 50 units	100 m <sup>2</sup>
	500 x 2,500	2 x 50 units	125 m <sup>2</sup>
	500 x 3,000	2 x 50 units	150 m <sup>2</sup>
27 mm	500 x 1,000	40 units	20 m <sup>2</sup>
	500 x 1,500	40 units	30 m <sup>2</sup>
	500 x 2,000	40 units	40 m <sup>2</sup>
	500 x 2,500	40 units	50 m <sup>2</sup>
	500 x 3,000	40 units	60 m <sup>2</sup>

### Truck transport

- ⊕ Thickness 27 mm: 1,900 m<sup>2</sup> / truck (13.6 m)
- ⊕ Thickness 21 mm: 2,300 m<sup>2</sup> / truck (13.6 m)





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## Special products

For every challenge, a solution.



# Special products

## Terrace – Comfort plank

### Advantages

- + Minimised deformation due to bonding
- + Vertical grain orientation minimises warping, with hardly any fibre separation
- + Homogeneous appearance
- + Easy installation due to invisible installation aid
- + Larch wood for high durability
- + High mechanical properties

### Technical specifications

<b>Wood species</b>	Larch
<b>Bonding</b>	Melamine resin adhesive type I in accordance with EN 301, for loadbearing and non-loadbearing components indoors and outdoors. Quality assured according to EN 14080
<b>Abmessungen</b>	Thickness: 28 mm Width: 144 mm Length: 3,980 mm Special lengths possible on request.
<b>Surface</b>	Smooth V-notch Usable on both sides
<b>Durability class</b>	3 to 4 in accordance with EN 350-1
<b>Fire behaviour</b>	D <sub>fi</sub> -s1
<b>Packaging unit</b>	147 pc/pack 84.35 m <sup>2</sup> 2.36 m <sup>3</sup>
<b>Recommendation</b>	For high durability, follow the planning, installation and care guidelines of the VEH ( <a href="http://www.veh.org">www.veh.org</a> [Association of the European Planing Mill Industry]).



Siberian larch

# Terrace – Thermo plank

## Advantages

- + Outstanding surface appearance
- + Vertical grain orientation of the base material minimises warping
- + Layered structure that ensures hardly any deformations occur
- + Easy installation due to invisible installation aid
- + Larch wood for high durability
- + High-quality, durable top layer of thermally-modified ash or thermally-modified birch
- + The base material in larch can be used for static calculations

## Technical specifications

<b>Wood species</b>	Base material: Edge glued larch Surface material: Thermally-modified ash, thermally-modified birch
<b>Bonding</b>	Melamine resin adhesive type I in accordance with EN 301, for loadbearing and non-loadbearing components indoors and outdoors. Quality assured according to EN 14080
<b>Dimensions</b>	Thickness: 32 mm Width: 144 mm Length: 6,000 mm Special lengths possible on request. Finger-jointed
<b>Surface</b>	Smooth
<b>Durability class</b>	Larch: 3 to 4 in accordance with EN 350-1 Thermally-modified ash: 2 in accordance with EN 350-1 Thermally-modified birch: 3 to 4 in accordance with EN 350-1
<b>Fire behaviour</b>	D <sub>fl</sub> -s1
<b>Recommendation</b>	For high durability, follow the planning, installation and care guidelines of the VEH ( <a href="http://www.veh.org">www.veh.org</a> [Association of the European Planing Mill Industry]).



Top: Thermally-modified ash  
Bottom: Thermally-modified birch







# Special products


## Mini Glued Laminated Larch Beams

### Advantages

- Ideal for supporting structures and outdoor applications
- Planed and chamfered structural timber
- The layered structure ensures that hardly any deformations occur
- Larch wood for high durability

### Technical data

<b>Wood species</b>	Larch
<b>Bonding</b>	Melamine resin adhesive type I in accordance to EN 301 for loadbearing and non-loadbearing components for both indoor and outdoor applications. Quality assured according to EN 391
<b>Cross sections</b>	50 mm x 80 mm; 60 mm x 100 mm; 90 mm x 90 mm Other cross sections are available on request
<b>Lengths</b>	2,970 mm; 3,970 mm; 4,970 mm Note: Not all lengths are available for all qualities and cross sections
<b>Surfaces</b>	Planed and chamfered
<b>Qualities</b>	Visual quality for visible applications in the garden area. Industrial quality is suitable for any type of supporting structure.
<b>Durability class</b>	3 to 4 according to EN 350-1



### Quality description

Parameter	Industrial quality	Visible quality
<b>Knots</b>	Loose and dead (not intergrown) knots allowed	Intergrown knots, loose knots up to 20 mm diameter allowed
<b>Wane</b>	Up to 10% of the cross-cut side	Up to 5% of the cross-cut side
<b>Slope of grain</b>	No restriction	No restriction
<b>Cracks</b>	Permissible	Cracks up to 3 mm wide are permissible
<b>Proportion of sapwood</b>	Permissible	Up to 5% of the surface permissible
<b>Rot</b>	Not permissible	Not permissible
<b>Blue stain, discolourations</b>	Permissible	Up to 5% of the surface permissible
<b>Moisture content</b>	14% ±2%	14% ±2%
<b>Ingrown bark</b>	Permissible	Not permissible
<b>Insect holes</b>	Permissible up to 2 mm diameter	Not permissible
<b>Pitch pockets</b>	Permissible	Up to 3 mm wide and 50 mm length permissible
<b>Rough areas</b>	Planed and chamfered on all sides, rough areas are permissible	Planed and chamfered on all sides, rough areas around knots are permissible
<b>Ends</b>	Trimmed	Trimmed
<b>Additional information</b>	The surface qualities shown are applicable on delivery.	



# Special products

## Circular column

### Advantages

- + An architectural eye-catcher
- + Aesthetic load-transferring component
- + Attractive timber appearance
- + High loadbearing capacity
- + Weather-resistant

### Technical data

<b>Wood species</b>	Larch, spruce and pine
<b>Structures</b>	Select columns: crosswise arrangement of the lamellas Standard columns: setup similar to that of glued laminated timber
<b>Bonding</b>	Melamine resin adhesive type I in accordance to EN 301 for loadbearing and non-loadbearing components for both indoor and outdoor applications. Produced and quality assured according to EN 14080
<b>Dimensions</b>	Diameter: From 80 mm to 320 mm in 20 mm increments Available up to 700 mm on request Length: Up to 8 m
<b>Qualities</b>	Select: Smooth, sound knots Visual: Similar to glued laminated timber visual quality Industrial: Similar to glued laminated timber industrial quality
<b>Surfaces</b>	Diameter: For planed surfaces 80 mm to 120 mm For sanded surfaces Diameter – 140 mm
<b>Durability class</b>	Larch: 3 to 4 according to EN 350-1 Spruce: 4 Pine: 3 to 4 (also applies to heartwood)
<b>Fire behaviour</b>	D-s2, d0
<b>Packaging</b>	Individually wrapped Wrapped in plastic film packs



# HASSLACHER group product range



Sawn timber



Surfaced timber



Structural finger jointed  
solid timber & GLT®



Glued solid timber Duo/Trio



Glued laminated timber



Glulam ceiling



Cross Laminated Timber



Glued laminated timber  
special components



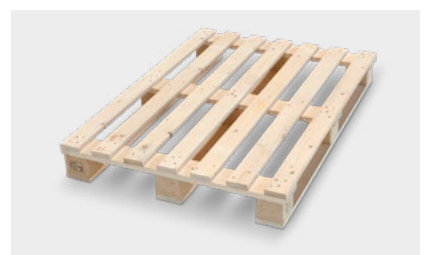
Special products



Pellets



Shuttering boards



Pallets & packaging solutions



# HASSLACHER NORICA TIMBER

From **wood** to **wonders**.

## HASSLACHER group

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