

EN

**HASSLACHER**  
**NORICA TIMBER**

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

## Surfaced timber

Versatility in indoor and outdoor areas.



# 01 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

# 02 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.



# 03

## Technical data

### Moisture content

General:	14% ±2%
Plank flooring:	10% ±2% (concerns wooden flooring AB VEH 19 x 116 in spruce and larch)
Rough tongue and groove boards:	16% ±2%

### Thermal conductivity

$\lambda = 0.13 \text{ W/mK}$

### Thermal capacity

1,600 J/kgK

### Diffusion resistance

According to EN ISO 10456  
 $\mu = 50$  (dry) to 20 (wet)

### Fire behaviour

Wood in general:	D-s2, d0
Floor covering:	D <sub>fl</sub> -s1

### Relief groove

The number of relief grooves for reducing crack formation depends on the selected profile

### Shrinkage and swelling behaviour

Perpendicular to the grain direction  
 $\alpha_{u,90} = 0.24\%$  per 1% change in moisture content

Parallel to the grain direction  
 $\alpha_{u,0} = 0.01\%$  per 1% change in moisture content

### Natural durability

#### In accordance to EN 350-2












Spruce	4
Fir	4
Pine	3-4
Larch	3-4
Thermo-pine	2
Sapwood	5



# 04









# 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		

# Product portfolio

## 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's standard portfolio

	Profile		Wood species	Thickness (mm)	Width (mm)	Length (mm)	Quality	Piece/bundle
Profiled 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

# 05

# Quality description

## AB TOP, AB VEH for indoor areas

### Characteristics

### A VEH: Softwood

### B VEH: Softwood

#### Knots

#### Permitted:

Any number of sound knots  
**Spruce/Fir:** Maximum size 25% of the board width. Intergrown knots with a maximum diameter of 15 mm  
**Pine:** Maximum size 10% of the board width + 30 mm. 50% of the goods partially sound knotted up to a maximum of 10% of the board width + 30 mm.  
**Larch:** Maximum size 25% of the board width. Sound knots with a maximum diameter of 15 mm, bark-edged and dead branches, size up to 20% of the profile board width. Black spots up to max. 5 mm diameter (also in groups).  
**Not permitted:** Loose and fallen-out knots; up to 15% of the goods may be dowelled with a rod of the same wood species (produced from a branch). Per 1m, an end-grain dowel with random distribution on the board is permissible.

#### Permitted:

⊕ sound knots, partially overgrown branches, bark-edged branches, wing knots and dead (non-overgrown) branches  
 ⊕ maximum size 10% of the board width + 50 mm.  
**Not permitted:** Loose and fallen-out knots; they may be dowelled with a rod of the same wood species(produced from a branch)

#### Chipped and maladjusted areas

#### Permitted:

⊕ At maximum 15% of the material, as far as the coverage of two profile boards is not impaired.  
 ⊕ The size of the chips in case of edge knots, is comparable to that of a branch.  
**Spruce/Fir:** max. 10 mm diameter  
**Pine/Larch:** max. 15 mm diameter

#### Permitted:

Size of the chips up to 40% of the knot area. In case of edge knots the coverage of two profile boards must not be impaired.

#### Compression wood

**Permitted:** up to 15% of the goods as far as the overall impression is not impaired

#### Permitted

#### Deformation

**Permitted:** Boards with curvature and twisting, as far as a proper installation is ensured

**Permitted:** Boards with curvature and twisting, as far as a proper installation is ensured

#### Pitch pockets

#### Permitted:

⊕ Up to a maximum of 15% of the goods, size up to 5 mm x 50 mm or an equivalent area of 250 mm<sup>2</sup>.  
 ⊕ Permitted up to 1 piece per 1m with random distribution over the board length  
 ⊕ The following pitch pocket sizes are disregarded:  
**Spruce/Fir:** 2 mm x 20 mm  
**Pine/Larch:** 3 mm x 30 mm

#### Permitted:

⊕ Size up to 10 mm x 100 mm or the equivalent area in mm<sup>2</sup>.  
 ⊕ Permitted up to 3 pieces per 1m with random distribution over the board length  
 ⊕ Pitch pocket sizes up to 3 mm x 30 mm are disregarded



## Characteristics

## A VEH: Softwood

## B VEH: Softwood

### Cracks

#### Permitted:

- ⊕ Up to 15% of the goods, discontinuous surface cracks (hairline splits) on the visible surface
- ⊕ Continuous end cracks not longer than 30 mm
- ⊕ Up to 20% of the goods, continuous end cracks not longer than the board width

**Spruce/Pine/Fir:** up to 20% of the goods

**Larch:** up to 40% of the goods

**Not permitted:** Ring shake

#### Permitted:

- ⊕ Discontinuous surface cracks on the visible surface
- ⊕ Continuous end cracks, not longer than 1.5 times the width of the piece

**Not permitted:** Ring shake

### Piths

#### Permitted:

**Spruce/Fir:** For up to 15% of the goods, on the visible surface up to max. 15% of the board length with max. 4 mm width.

**Pine:** For up to 25% of the goods, on the visible surface up to max. 30% of the board length and with max. 5 mm width

**Larch:** For up to 15% of the goods, on the visible surface up to max. 30% of the board length with max. 5 mm width

#### Permitted

### Discolouration

#### Permitted:

Discoloration on the reverse side.

**Pine:** Resinous (rightful) spots around knots

**Larch:** Slight colour differences (e.g. water spots).

#### Not permitted:

Discoloration on the visible side.

**Pine:** other resinous areas on the visible side

#### Permitted:

⊕ Slight discoloration on the visible side (e.g. red and blue stripes).

⊕ Discoloration on the reverse side

**Pine:** Resinous planks

**Larch:** Slight colour differences due to water spots are permitted.

### Fungus infestation

#### Not permitted

(for exceptions see point "discolorations")

**Permitted:** Harsh red stripes (for exceptions see point "discolorations")

**Not permitted:** Other fungi infestations (for exceptions see point "discolorations")

### Insect infestation

#### Not permitted

#### Not permitted

### Wane

**Permitted:** On the reverse side if tongue and groove are not affected by it

**Permitted:** On the reverse side if tongue and groove are not affected by it over 3/4 of the length

### Bark pockets

**Permitted:** Up to 15% of the goods, size up to a diameter of 15 mm or an equivalent area in mm<sup>2</sup>.

**Permitted:** In branch size or in an equivalent area in mm<sup>2</sup>.

### Splint

**Permitted:** Up to 15% of the goods, splints up to 20% of the visible area

#### Permitted

### Scope of validity

The specified surface qualities are valid at time of delivery.

# Quality description

## AB TOP, AB VEH for outer areas

### Characteristics

### A VEH: Softwood

### B VEH: Softwood

#### Knots

**Permitted:**

- ⊕ Any number of sound knots. Maximum size 25% of the board width.
- ⊕ Partially grown, bark-edged and dead knots are permitted up to 1 piece per 1m, randomly distributed along the board length. Up to 20% of the size of the board.
- ⊕ Single black point knots with a diameter up to 5 mm are permitted and thus disregarded.
- ⊕ In the case of boards made of rift and semi-circular materials, the above-mentioned knot sizes are increased by + 20 mm.

**Not permitted:** Loose and fallen-out knots**Permitted:**

- ⊕ Sound knots, partially overgrown knots, bark-edged knots, wing and dead (non-overgrown) knots up to 1 piece per 1m, randomly distributed along the board length.
- ⊕ Single black point knots of up to 5 mm in diameter are permitted and thus disregarded.
- ⊕ w >100 mm: branch size max. 10% of the board width + 40 mm.
- ⊕ w <100 mm: branch size max. 60% of the board width.

**Not permitted:** Loose and fallen-out knots

#### Chipped and maladjusted areas

**Permitted:** Up to 15% of the goods or chipped knots up to a diameter of 15 mm.**Permitted:** Loose and chipped knots up to a diameter of 30 mm.

#### Compression wood

**Permitted:** If the overall impression is not impaired.**Permitted**

#### Deformation

**Permitted:** Boards with curvature and twisting, as far as a proper installation is ensured**Permitted:** Boards with curvature and twisting, as far as a proper installation is ensured

#### Pitch pockets

**Permitted:**

- ⊕ Sizes up to 3 mm x 40 mm or the equivalent area in 120 mm<sup>2</sup>.
- ⊕ Permitted up to 1 piece per meter, randomly distributed along the board length
- ⊕ Pitch pocket sizes up to 1 mm x 20 mm are disregarded

**Permitted:**

- ⊕ Sizes up to 5 mm x 60 mm or the equivalent area in 300 mm<sup>2</sup>.
- ⊕ Permitted up to 3 pieces per meter, randomly distributed along the board length
- ⊕ Pitch pocket sizes up to 3 mm x 40 mm are disregarded

#### Cracks

**Permitted:**

- ⊕ Discontinuous surface cracks (hairline cracks) on the visible surface
- ⊕ Up to 20% of the goods, continuous end cracks not longer than the board width

**Not permitted:** Ring shake**Permitted:**

- ⊕ Discontinuous surface cracks (hairline cracks) on the visible surface.
- ⊕ Continuous end cracks, not longer than 1.5 times the width of the piece

**Not permitted:** Ring shake

## Characteristics

### A VEH: Softwood

### B VEH: Softwood

<b>Pith</b>	<b>Permitted:</b> Up to 15% of the goods, on the visible surface up to max. 30% of the board length with max. 5 mm width.	<b>Permitted</b>
<b>Discolouration</b>	<b>Permitted:</b> <ul style="list-style-type: none"> <li>⊕ Discoloration on the reverse side.</li> <li>⊕ Slight discolorations on the visible side for up to 30% of the goods.</li> <li>⊕ Splint is not considered as a discoloration.</li> </ul>	<b>Permitted:</b> <ul style="list-style-type: none"> <li>⊕ Slight discoloration on the visible side (e.g. red and blue stripes).</li> <li>⊕ Discoloration on the reverse side</li> <li>⊕ For Siberian larch: slight colour differences due to water spots are permitted.</li> <li>⊕ Splint is not considered as a discoloration.</li> </ul>
<b>Fungus infestation</b>	<b>Not permitted:</b> (for exceptions see point "discolorations")	<b>Not permitted:</b> (for exceptions see point "discolorations")
<b>Insect infestation</b>	<b>Not permitted</b>	<b>Not permitted</b>
<b>Wane</b>	<b>Permitted:</b> On the reverse side, as far as a proper installation is ensured <b>Not permitted:</b> On the visible side	<b>Permitted:</b> On the reverse side, as far as a proper installation is ensured <b>Not permitted:</b> On the visible side
<b>Bark pockets</b>	<b>Not permitted</b>	<b>Permitted:</b> In branch size or in an equivalent area in mm <sup>2</sup> .
<b>Splint</b>	<b>Permitted:</b> <ul style="list-style-type: none"> <li>⊕ The visible side is practically splint-free</li> <li>⊕ On the reverse side, up to 30% of the goods, and up to 50% of the board width.</li> </ul>	<b>Permitted:</b> On the reverse side, the core portion must be present at least over the entire board length. Up to 30% of the goods, and up to 50% of the board width.
<b>Scope of validity</b>	The specified surface qualities are valid at time of delivery.	



# Quality description

## AB-US

### Grading criteria

### Spruce, fir, pine and larch

#### General

- ⊕ The AB-US quality is a mixed portfolio consisting of at least 70% VEH AB and max. 30% B-Sort.
- ⊕ The optical appearance of the goods corresponds to an AB VEH with a certain share of the described maximum permissible grading and growth criteria related to B-Sort.
- ⊕ Surface is closed

#### Knots

##### Permitted:

- ⊕ Sound knots, partially intergrown knots
- ⊕ Bark-bordered knots, spike knots and non-intergrown knots up to 10% of the board width + 50 mm
- ⊕ Single chipped edge knots up to 40% of the permissible knot size, as far as the coverage is not impaired

#### Compression wood

##### Permitted

#### Deformation

**Permitted:** Boards with curvature and twisting, as far as a proper installation is ensured

#### Pitch pockets

**Permitted:** No oversized pitch pockets and without peppered resin galls

#### Cracks

##### Permitted:

- ⊕ Discontinuous cracks on the visible side
- ⊕ Continuous open cracks (max. 1 mm wide) up to a length of 300 mm
- ⊕ End cracks not longer than twice the board width in a part of the goods
- ⊕ Closed cracks in a part of the goods on max. 1/4 of the length

#### Pith

##### Permitted

#### Discolouration

**Permitted:** Discoloration on the reverse side  
**Not permitted:** Discoloration on the visible side

#### Red stripes and brown discolouration

**Permitted:** only when isolated and up to 25% of the visible surface; hard brown discolouration is permitted.

#### Insect infestation

**Permitted:** Small isolated worm holes up to 10% of the visible surface.

#### Wane

**Permitted:** on the reverse side up to 1.5 cm when inclined measured and if tongue and groove are not affected by it on 3/4 of the length

#### Scope of validity

The specified surface qualities are valid at time of delivery

#### A tip from the experts:

Use wood species with a high durability, such as larch, for outdoor areas!

# Quality description

## B-Sort.

### Grading criteria

### Spruce and fir

#### Knots

**Permitted:**

- ⊕ Sound knots and partially intergrown knots
- ⊕ Bark-bordered knots, spike knots and non-intergrown knots up to 10% of the board width + 50 mm (in fact without any size restrictions)
- ⊕ Single chipped edge knots up to 40% of the permissible knot size, as far as the coverage is not impaired
- ⊕ Surface is closed

#### Deformation

**Permitted:** Boards with curvature and twisting, as far as a proper installation is ensured

#### Pitch pockets

**Permitted:** No oversized pitch pockets and without peppered resin galls

#### Cracks

**Permitted:**

- ⊕ Discontinuous cracks on the visible side
- ⊕ Continuous open cracks (max. 1 mm wide) up to a length of 300 mm
- ⊕ End cracks not longer than twice the board width in a part of the goods
- ⊕ Closed cracks in a part of the goods on max. 1/4 of the length

#### Pith

**Permitted**

#### Discolouration

**Not permitted:** Pronounced discolourations on the visible side

#### Red stripes and brown discolouration

**Permitted:** Only when isolated and up to 25% of the visible surface; hard brown discolouration is permitted.

#### Insect infestation

**Permitted:** Small isolated worm holes up to 10% of the visible surface.

#### Wane

**Permitted:** on the reverse side up to 1.5 cm when inclined measured and if tongue and groove are not affected by it on 3/4 of the length

#### Bark pockets

Have to be treated equally as the grading criterion "knots"

#### Scope of validity

The specified surface qualities are valid at time of delivery

# Quality description

## Rough tongue and groove boards

### Grading criteria

### Spruce, fir and pine

<b>Knots</b>	<b>Permitted:</b> <ul style="list-style-type: none"><li>☛ Dead knots, edge knots up to a maximum diameter of 20 mm (not more than 2 knot holes per board, given for approx. 10% of the goods)</li><li>☛ Black knots</li><li>☛ No closed surfaces</li></ul>
<b>Compression wood</b>	<b>Permitted</b>
<b>Deformations</b>	<b>Permitted:</b> Boards with curvature and twisting, as far as a proper installation is ensured
<b>Pitch pockets</b>	<b>Permitted</b>
<b>Cracks</b>	<b>Permitted:</b> <ul style="list-style-type: none"><li>☛ Up to a width of 2 mm and up to half the board length</li><li>☛ End cracks up to a maximum length of 300 mm</li></ul>
<b>Pith</b>	<b>Permitted</b>
<b>Discolouration</b>	<b>Permitted</b>
<b>Brown discolouration</b>	<b>Permitted:</b> Only when isolated and up to 25% of the visible surface; hard brown discolouration is permitted.
<b>Insect infestation</b>	<b>Permitted</b>
<b>Wane</b>	<b>Permitted:</b> On the reverse side
<b>Annual-ring width</b>	Not taken into account
<b>Bark pockets</b>	<b>Permitted</b>
<b>Splints</b>	<b>Permitted</b>
<b>Scope of validity</b>	The specified surface qualities are valid at time of delivery



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# HASSLACHER group product range



Sawn timber



Surfaced timber



Structural finger jointed  
solid timber & GLT®



Glued solid timber Duo/Trio



Glued laminated timber



Glued ceiling systems



Cross laminated timber



Glued laminated timber  
special components



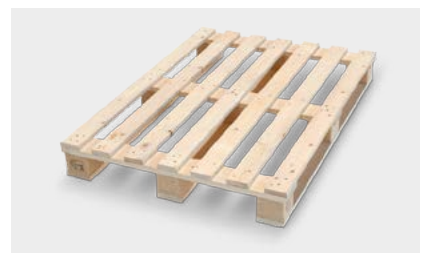
Solid wood boards



Pellets



Formwork panels



Pallets & packaging solutions

# HASSLACHER NORICA TIMBER

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

## HASSLACHER group

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