



# GLULAM



# STRONGLY ON THE RISE

We combine highly professional production of your glued wood product with a comprehensive service.



AT Nr. 254815 0  
RSCG 60,2x113 PUF 1A  
1x 10 000x113  
BASF & LAMMERTS  
STRASSE 10 55128 BIELEFELD

## YOUR PRODUCT

- High strength in a low volume
- High dimensional stability thanks to gluing
- Standard lengths from 4.00 m to 18.00 m
- Automated production with high capacity and precision
- Custom sizes
- Surface treatment on request
- Delivered directly to building site

## YOUR ADVANTAGES

- Versatile use – e.g. for roof structures, beams, posts and columns of visible quality.
- Machined to your requirements with a high degree of prefabrication
- Optimized delivery times, even for large projects
- Minimal assembly time
- Support from our sales team

## AND ABOVE ALL ...

- CLT, glulam, solid wood, planed products, fiberboard, all-in-one

# SCHILLIGER HOLZ – NATURALLY FROM REGIONAL WOODS

In our plants, we process wood from regional forests. In this way, we strengthen the regional forestry economy, minimize transport and make a significant contribution to a favorable ecological balance for your building project.



# GLULAM QUALITY CRITERIAS

PROPERTIES	NORMAL QUALITY	INDUSTRIAL QUALITY
<b>Application</b>	For visible constructions with normal aesthetic requirements. e.g. living spaces or exposed framework	For construction without aesthetic requirements, e.g. industrial building, non-visible frameworks, agricultural buildings
<b>Knots</b> – Healthy knots – Other knots	Permitted Up to a visible diameter of 20 mm permitted more than 20 mm: wooden fillers	Permitted Permitted
<b>Resin pockets</b>	Up to 5 x 50 mm permitted	Permitted
<b>Bark pockets</b>	Not permitted	Permitted
<b>Discolorations (Bluestain/ brownstain)</b>	Slight discoloration up to 10% of the visible surface permitted	Permitted
<b>Decay</b>	Not permitted	Not permitted
<b>Insect infestation</b>	Small holes up to 2 mm of inactive insectes permitted	Small holes up to 2 mm of inactive insectes permitted
<b>Cracks</b>	Shrinkage Cracks up a width of 4 mm permitted, other cracks not permitted	Shrinkage cracks permitted
<b>Longitudinal curvature</b>	Up to 4 mm on 2 m permitted	Up to 4 mm on 2 m permitted
<b>Finger joint spacing</b>	Without limitation	Without limitation
<b>Surface</b>	Planed, edge chamfered	Planed, edge chamfered
<b>Repairs by means of biscuits, dowels, strips etc.</b>	Permitted	Not necessary
<b>Repairs using filling compounds</b>	Permitted	Not necessary
<b>Planer knife strokes</b>	Without limitation	Without limitation

# KVH FINGER JOINTED BEAMS

The basic component of timber-frame construction.



## ECONOMICAL

Thanks to our modern industrial process, finger-jointed solid wood is a reliable and economical structural product.

## STANDARDIZED

Our finger jointed beams can be used for both timber-framing and simple timber constructions.

## AVAILABLE

We always have a stock of solid finger-jointed timber. Please do not hesitate to contact our sales team if you have any questions.

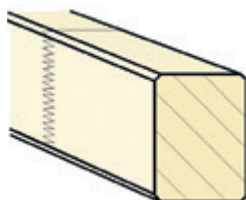




# TECHNICAL DATA SHEET

<b>Species</b>	Spruce and fir Other species on request
<b>Quality</b>	I Industry for constructions with low esthetical requirements
<b>Strengths class</b>	C24
<b>Sections</b>	See table
<b>Beam lengths</b>	Standard 13.00 m Other length on request
<b>Surface</b>	Planed and chamfered on all four edges
<b>Moisture content</b>	12% ± 2%
<b>Strength values GL 24h</b>	According SIA 265 or EN 14080:2013
<b>Reaction to fire</b>	D-s2,d0 (according to EN 13501-1)
<b>Adhesive details</b>	<ul style="list-style-type: none"> <li>• Polyurethane (PUR), Type I according EN 15425</li> <li>• Solvent-free (no formaldehyde)</li> <li>• Transparent glue-lines</li> </ul>

## Schematic representation



# PACKING STANDARD

Dimensions mm	Length m	Pieces per pack	Volume m <sup>3</sup>
45 x 95	13.00	108	6.002
45 x 120	13.00	81	5.686
45 x 145	13.00	72	6.107
45 x 160	13.00	63	5.897
45 x 180	13.00	54	5.686
45 x 200	13.00	45	5.265
45 x 220	13.00	45	5.792
60 x 80	13.00	84	5.242
60 x 100	13.00	66	5.148
60 x 120	13.00	54	5.054
60 x 140	13.00	48	5.242
60 x 160	13.00	42	5.242
60 x 180	13.00	36	5.054
60 x 200	13.00	30	4.680
60 x 220	13.00	30	5.148
60 x 240	13.00	24	4.493
80 x 80	13.00	70	5.824
80 x 100	13.00	55	5.720
80 x 120	13.00	45	5.616
80 x 140	13.00	40	5.824
80 x 160	13.00	35	5.824
80 x 180	13.00	30	5.616
80 x 200	13.00	25	5.200
80 x 220	13.00	25	5.720
80 x 240	13.00	20	4.992

# GLULAM GL 24

You need glulam – we've got it.



## SUPERIOR QUALITY

Glulam is our flagship product made from high-quality GL24h softwood. The individual 40 mm lamellas are finger-jointed and glued.

## EXCELLENT MECHANICAL VALUES

Glulam is ideal for load-bearing structures and applications with high mechanical requirements.

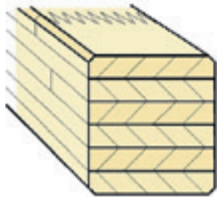
## IDEAL APPLICATIONS

Glulam can be used for a wide range of applications, from posts, and beams to framing products.

Take a look at our references!



# TECHNICAL DATA SHEET

<b>Species</b>	Spruce and fir Other species on request
<b>Quality</b>	N Normal for visible constructions I Industry for constructions with low esthetical requirements
<b>Strengths class</b>	GL24h, GL28h Other strength classes on demand
<b>Beam heights</b>	120 mm - 1'000 mm multiplication of 40 mm
<b>Beam widths</b>	100 mm - 280 mm multiplication of 20 mm Can be extended as required through block gluing
<b>Beam lengths</b>	4.00 m - 18.00 m
<b>Surface</b>	Planed and chamfered on all four edges
<b>Moisture content</b>	12% ± 2%
<b>Strength values GL 24h</b>	According SIA 265 or EN 14080:2013
<b>Reaction to fire</b>	D-s2,d0 (according to EN 13501-1)
<b>Adhesive details</b>	<ul style="list-style-type: none"><li>• Polyurethane (PUR), Type I according EN 15425</li><li>• Solvent-free (no formaldehyde)</li><li>• Transparent glue-lines</li></ul>
<b>Schematic representation</b>	

# PRE-SIZING TABLE

## SECTION B/H FOR VERIFYING FITNESS FOR SERVICE FOR NON-DEFORMATION SENSITIVE ELEMENTS; $w < \ell/350$

Light construction		$g_k$ 0.8 kN/m <sup>2</sup>																				
Residential cat. A1		$q_k$ 2.0 kN/m <sup>2</sup>																				
Span/span $\ell$ (m)		4.00			4.50			5.00			5.50			6.00			6.50			7.00		
Center distance (m)		0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70
Width / Height (mm)	100	200	200	200	200	240	240	240	240	280	280	280	280	280	280	320	320	320	320	320	320	360
	120	200	200	200	200	200	240	240	240	240	240	280	280	280	280	280	280	320	320	320	320	320
	140	160	200	200	200	200	200	200	240	240	240	240	280	240	280	280	280	280	320	280	280	320
	160	160	160	200	200	200	200	200	200	240	240	240	240	240	240	280	280	280	280	280	280	320
	180				200	200	200	200	200	240	200	240	240	240	240	280	240	280	280	280	280	320
	200							200	200	200	200	240	240				240	240	240	240	240	280
	220																240	240	240	240	240	280
	240																			240	240	280
	260																					280

Heavy construction		$g_k$ 1.6 kN/m <sup>2</sup>																				
Residential cat. A1		$q_k$ 2.0 kN/m <sup>2</sup>																				
Span/span $\ell$ (m)		4.00			4.50			5.00			5.50			6.00			6.50			7.00		
Center distance (m)		0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70
Width / Height (mm)	100	200	240	240	240	240	280	280	280	280	280	320	320	320	320	360	320	360	360	360	360	400
	120	200	200	240	240	240	240	240	280	280	280	280	320	280	320	320	320	320	360	360	360	400
	140	200	200	200	200	240	240	240	240	280	280	280	280	280	280	320	320	320	320	320	320	360
	160	200	200	200	200	240	240	240	240	240	240	280	280	280	280	320	280	320	320	320	320	360
	180	200	200	200	200	200	240	240	240	240	240	240	280	280	280	280	280	280	320	320	320	320
	200				200	200	200	200	240	240	240	240	240	240	280	280	280	280	280	280	320	280
	220										240	240	240	240	280	280	280	280	280	280	280	320
	240										240	240	240	240	240	280	240	280	280	280	280	320
	260																280	280	280	280	280	280

Heavy construction		$g_k$ 1.6 kN/m <sup>2</sup>																				
Residential cat. B		$q_k$ 3.0 kN/m <sup>2</sup>																				
Span/span $\ell$ (m)		4.00			4.50			5.00			5.50			6.00			6.50			7.00		
Center distance (m)		0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70
Width / Height (mm)	100	240	240	240	240	280	280	280	280	320	320	320	320	320	360	360	360	360	400	360	400	440
	120	200	240	240	240	240	280	280	280	280	280	320	320	320	320	360	320	360	360	360	360	400
	140	200	200	240	240	240	240	240	280	280	280	280	320	280	320	320	320	320	360	360	360	360
	160	200	200	200	200	240	240	240	240	280	280	280	280	280	280	320	320	320	320	320	320	360
	180	200	200	200	200	240	240	240	240	240	240	280	280	280	280	320	280	320	320	320	320	360
	200	200	200	200	200	200	240	240	240	240	240	240	280	280	280	280	280	320	320	320	320	320
	220										240	240	280	240	280	280	280	280	320	280	320	320
	240													240	280	280	280	280	280	280	280	320
	260																280	280	280	280	280	320

### Prerequisites

Loads  $g_k$  and  $q_k$  evenly distributed over the length and width of the beam. No point loads.  
 Single-span straight beams of constant rectangular cross-section.  
 Beams protected from the weather (moisture class 1).  
 Long-term effects due to creep are taken into account.

### Application example

Living area (category A1)  $q_k = 2.0 \text{ kN/m}^2$ . Light soil  $g_k = 0.8 \text{ kN/m}^2$ . Span  $\ell = 6.00 \text{ m}$ ,  
 Center distance  $a = 0.70 \text{ m}$   
 Suggested cross-section for BLC GL24h: 120x280 mm

This table is an aid to pre-dimensioning but does not replace a static calculation

# GLULAM C24

No beams, no house. Even better if they're made from local timber!



## LAM BEAMS: THE COST-EFFICIENT ALTERNATIVE

Lamella beams are economical. These glued wood products are made out of finger jointed C24 lamellas. The lamellas are glued together either horizontally or vertically based on the production optimization.

## RIGI BEAMS: OUR SPECIALITY

Rigi beams are composed of two or three finger-jointed C24 lamellas. Rigi beams are ideal for visible structures and rafters with high mechanical requirements.

## RBK FRAMING POSTS: THE INDUSTRIAL GLULAM OPTION

RBK beams are used in timber framing of prefabricated elements. Like glulam beams, RBK framing lamellas are glued either vertically or horizontally based on the production process.

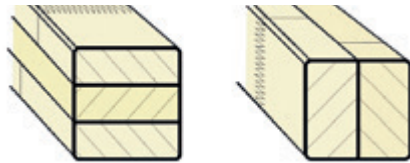
# TECHNICAL DATA SHEET

## LAM TIMBER BEAM

The lamellas are glued vertically or horizontally. The thickness and orientation of the lamellas are optimized in the production process.

<b>Species</b>	Spruce and fir
<b>Quality</b>	N Normal for visible applications I Industry for constructions with low esthetical requirements
<b>Strengths class</b>	C24
<b>Beam heights</b>	100 mm - 280 mm, multiplication of 20 mm
<b>Beam widths</b>	80 mm - 160 mm, multiplication of 20 mm
<b>Beam lengths</b>	4.00 m - 18.00 m
<b>Surface</b>	Planed and chamfered on all four edges
<b>Moisture content</b>	12% ± 2%
<b>Strength values GL 24h</b>	According SIA 265 or EN 14080:2013
<b>Reaction to fire</b>	D-s2,d0 (according to EN 13501-1)
<b>Adhesive details</b>	<ul style="list-style-type: none"><li>• Polyurethane (PUR), Type I according EN 15425</li><li>• Solvent-free (no formaldehyde)</li><li>• Transparent glue-lines</li></ul>

### Schematic representation



## RBS RIGI TIMBER BEAMS

<b>Species</b>	Spruce and fir Other species on request
<b>Quality</b>	N Normal for visible applications
<b>Strengths class</b>	C24
<b>Beam depths</b>	100 mm - 280 mm, multiplication of 20 mm
<b>Beam widths</b>	80 mm - 160 mm, multiplication of 40 mm 2 to 4 lamellas are glued vertically
<b>Beam lengths</b>	4.00 m - 18.00 m
<b>Surface</b>	Planed and chamfered on all four edges
<b>Moisture content</b>	12% ± 2%
<b>Strength values GL 24h</b>	According SIA 265 or EN 14080:2013
<b>Thermal conductivity</b>	$\lambda = 0.13 \text{ W/(m.K)}$
<b>Reaction to fire</b>	D-s2,d0 (according to EN 13501-1)
<b>Adhesive details</b>	<ul style="list-style-type: none"><li>• Polyurethane (PUR), Type I according EN 15425</li><li>• Solvent-free (no formaldehyde)</li><li>• Transparent glue-lines</li></ul>

### Schematic representation



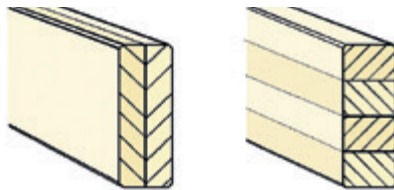


## RBK GLUED FRAMING POSTS C24

Our glued construction timber is intended for use as posts in timber framing and in prefabricated elements. The thickness and orientation of the lamellas are optimized in production.

<b>Species</b>	Mixed: Spruce, fir, larch and douglas fir
<b>Quality</b>	I Industry for constructions with low esthetical requirements
<b>Strengths class</b>	C24
<b>Beam heights</b>	80 mm - 280 mm, multiplication of 20 mm
<b>Beam widths</b>	60 mm
<b>Beam lengths</b>	13.00 m
<b>Surface</b>	Planed and chamfered on all four edges. Rough and non-chamfered parts to be tolerated
<b>Moisture content</b>	15% ± 3%
<b>Strength values GL 24h</b>	According SIA 265 or EN 14080:2013
<b>Reaction to fire</b>	D-s2,d0 (according to EN 13501-1)
<b>Adhesive details</b>	<ul style="list-style-type: none"><li>• Polyurethane (PUR), Type I according EN 15425</li><li>• Solvent-free (no formaldehyde)</li><li>• Transparent glue-lines</li></ul>

### Schematic representation





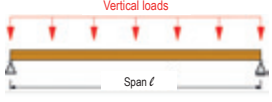
MINDA

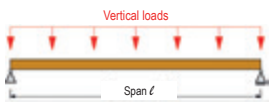
TimberPress R 512

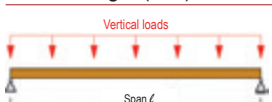
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# PRE-SIZING TABLE

## SECTION B/H FOR VERIFYING FITNESS FOR SERVICE FOR NON-DEFORMATION SENSITIVE ELEMENTS $w < \ell/350$

<b>Light construction</b>		$g_k$ 0.8 kN/m <sup>2</sup>																				
<b>Residential Kat. A1</b>		$q_k$ 2.0 kN/m <sup>2</sup>																				
Span/span $\ell$ (m)		3.00			3.50			4.00			4.50			5.00			5.50			6.00		
Centre distance (m)		0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70
Width / Height (mm)	80	140	160	160	180	180	180	200	200	220	220	220	240	240	260	260	260					
	100	140	140	160	160	160	180	180	200	200	200	220	220	220	240	240	240	260		260		
	120	140	140	140	160	160	160	180	180	180	200	200	220	220	220	240	240	240	260	260	260	260
	140				140	160	160	160	180	180	180	200	200	200	220	220	220	240	240	240	260	260
	160											180	180	200	200	220	220	220	240	220	240	260

<b>Heavy construction</b>		$g_k$ 1.6 kN/m <sup>2</sup>																				
<b>Residential Kat. A1</b>		$q_k$ 2.0 kN/m <sup>2</sup>																				
Span/span $\ell$ (m)		3.00			3.50			4.00			4.50			5.00			5.50			6.00		
Centre distance (m)		0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70
Width / Height (mm)	80	160	180	180	200	200	220	220	240	240	240	260	280	260								
	100	160	160	180	180	180	200	200	220	220	220	240	260	260	260							
	120	140	160	160	160	180	180	200	200	220	220	220	240	240	260	260	260					
	140				160	160	180	180	200	200	200	220	220	220	240	260	240	260				
	160							180	180	200	200	200	220	220	220	240	240	260	260	260	260	260

<b>Heavy construction</b>		$g_k$ 1.6 kN/m <sup>2</sup>																				
<b>Residential Kat. B</b>		$q_k$ 3.0 kN/m <sup>2</sup>																				
Span/span $\ell$ (m)		3.00			3.50			4.00			4.50			5.00			5.50			6.00		
Centre distance (m)		0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70	0.50	0.60	0.70
Width / Height (mm)	80	180	180	200	200	220	220	220	240	260	260											
	100	160	180	180	180	200	200	220	220	240	240	260	260	260								
	120	160	160	180	180	180	200	200	220	220	220	240	260	240	260							
	140		160	160	160	180	180	200	200	220	220	220	240	240	260	260	260					
	160				160	180	180	180	200	200	200	220	220	220	240	260	240	260				

### Prerequisites

Loads  $g_k$  and  $q_k$  evenly distributed over the length and width of the beam. No point loads.  
 Single-span straight beams of constant rectangular cross-section.  
 Beams protected from the weather (moisture class 1).  
 Long-term effects due to creep are taken into account.

### Application example

Living area (category A1)  $q_k = 2.0 \text{ kN/m}^2$ . Light soil  $g_k = 1.6 \text{ kN/m}^2$ . Span  $\ell = 4.00 \text{ m}$ ,  
 Centre distance  $a = 0.60 \text{ m}$   
 Suggested cross-section for C24 : 120x200 mm

This table is an aid to pre-dimensioning but does not replace a static calculation.

# TRANSFORMATION

Cutting to shape, surface treatment – we can offer you a whole programme.



## CUTTING TO SHAPE: AT THE HIGHEST LEVEL

Our CNC cutting center is equipped with a wide range of tools and operates with the utmost precision. This enables us to produce to your specifications and manage complex projects.

## DRYING: FULL PERFORMANCE

Thanks to a large number of modern, computer-controlled drying facilities, wood is naturally preserved.

## SURFACE TREATMENT: EXACTLY THE WAY YOU WANT IT

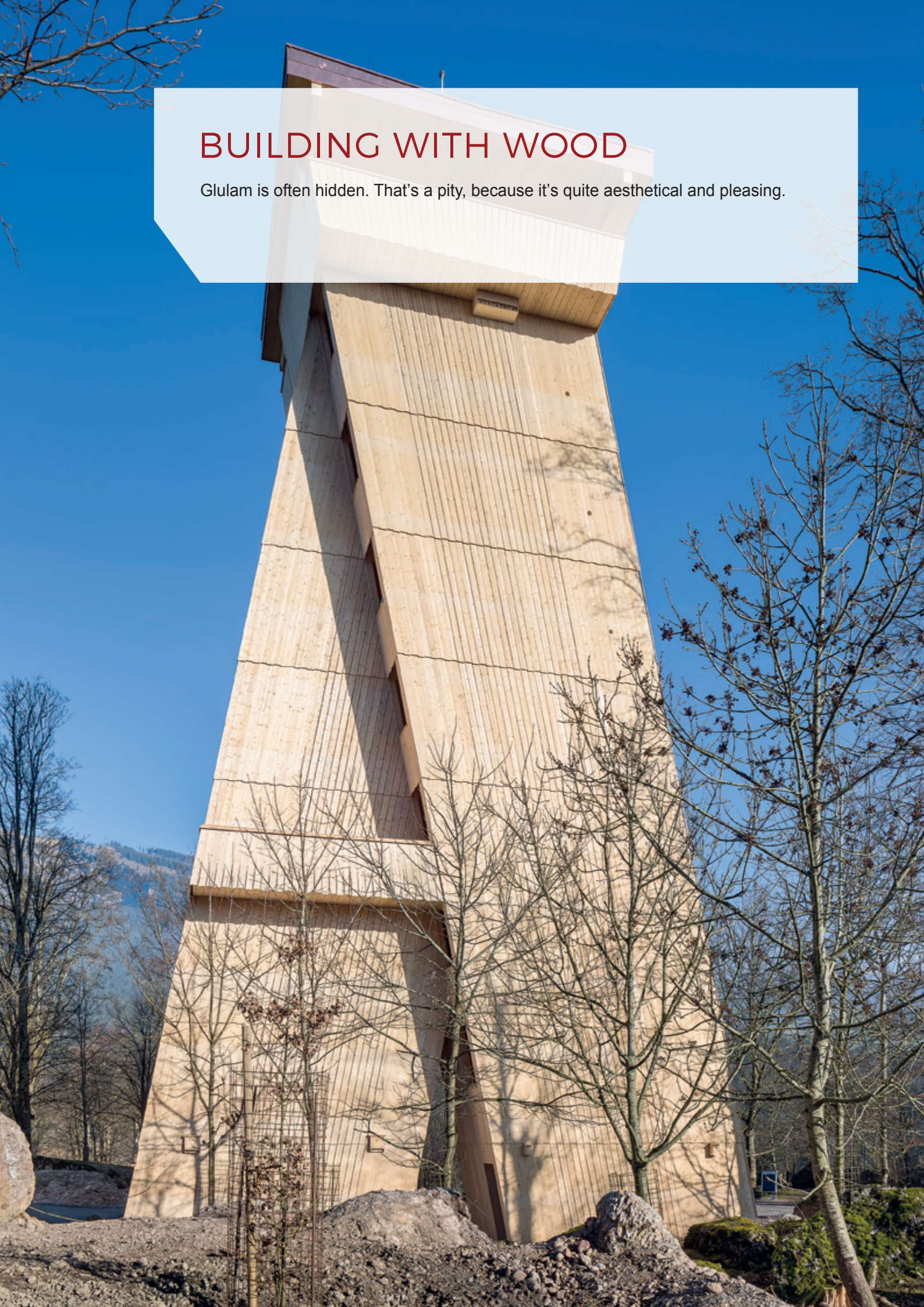
In cooperation with a painter, we offer you a wide range of surface treatments and colors, e.g. covering paints, wood finishes or UV protection.

## TREATMENT CLASS 2: AN INDUSTRIAL SOLUTION

On request, the wood can also be dip treated to class 2. This treatment is also anti-termite.

# BUILDING WITH WOOD

Glulam is often hidden. That's a pity, because it's quite aesthetical and pleasing.





Arboretum Campus, Paris (F)



Industrial hall, Bartenheim (F)



Insight in the panoramic tower of the nature reserve and wildlife park, Goldau (CH)



Hotel B&B, Guimaraes (P)



Residential home, Apsach-le-Bas (F)



Visible framework in residential home, Rothenburg (CH)



## SCHILLIGER HOLZ AG – VARIETY FROM A SINGLE SOURCE

### Haltikon (CH)

Headquarter: Solid timber, Glulam, CLT, planed products, chips and sawdust



### Küssnacht am Rigi (CH)

Wood fiber insulation products



### Perlen (CH)

Solid timber



### Volgelsheim (F)

Solid timber, Glulam, CLT, chips and sawdust



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