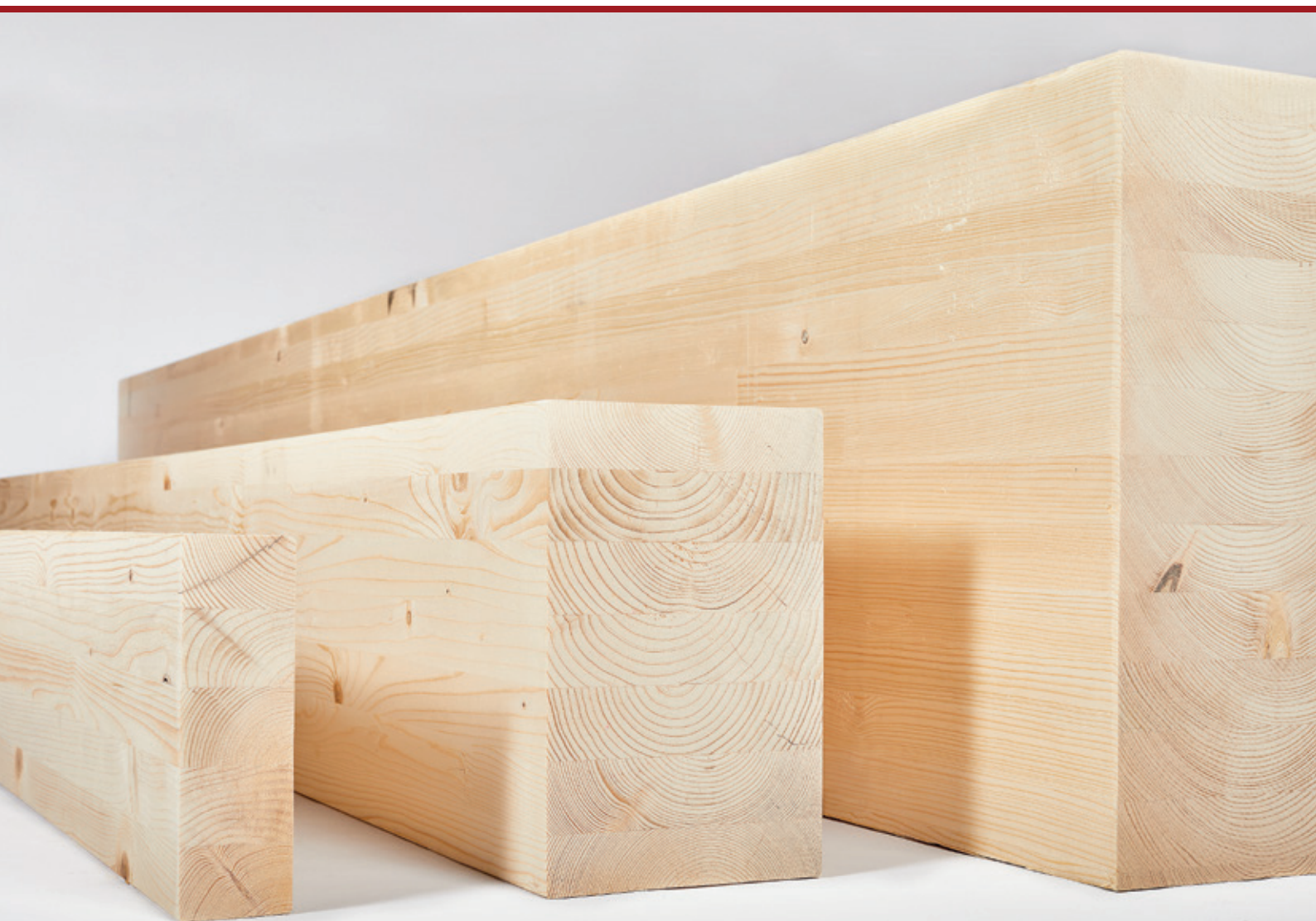




GLULAM



STRONGLY ON THE RISE

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



AT-Nr. 234816 C
RISPE GMBH & CO. KG
FAX 030 6006113
www.rispe.de

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
Application	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
Knots – Healthy knots – Other knots	Permitted Up to a visible diameter of 20 mm permitted more than 20 mm: wooden fillers	Permitted Permitted
Resin pockets	Up to 5 x 50 mm permitted	Permitted
Bark pockets	Not permitted	Permitted
Discolorations (Bluestain/ brownstain)	Slight discoloration up to 10 % of the visible surface permitted	Permitted
Decay	Not permitted	Not permitted
Insect infestation	Small holes up to 2 mm of inactive insectes permitted	Small holes up to 2 mm of inactive insectes permitted
Cracks	Shrinkage Cracks up a width of 4 mm permitted, other cracks not permitted	Shrinkage cracks permitted
Longitudinal curvature	Up to 4 mm on 2 m permitted	Up to 4 mm on 2 m permitted
Finger joint spacing	Without limitation	Without limitation
Surface	Planed, edge chamfered	Planed, edge chamfered
Repairs by means of biscuits, dowels, strips etc.	Permitted	Not necessary
Repairs using filling compounds	Permitted	Not necessary
Planer knife strokes	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.

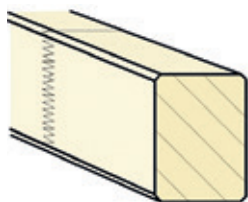
AVAILABLE

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

Species	Spruce and fir Other species on request
Quality	I Industry for constructions with low esthetical requirements
Strengths class	C24
Sections	See table
Beam lengths	Standard 13.00 m Other length on request
Surface	Planed and chamfered on all four edges
Moisture content	12% ± 2%
Strength values GL 24h	According SIA 265 or EN 14080:2013
Reaction to fire	D-s2,d0 (according to EN 13501-1)
Adhesive details	Polyurethane (PUR), Type I according EN 15425 Solvent-free (no formaldehyde) Transparent glue-lines
Schematic representation	



PACKING STANDARD

Dimensions mm	Length m	Pieces per pack	Volume m³
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.

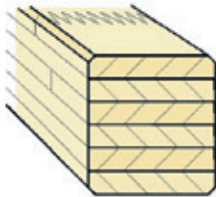
IDEAL APPLICATIONS

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

Take a look at our references!

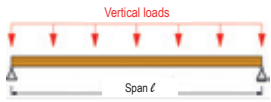


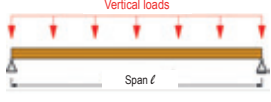
TECHNICAL DATA SHEET

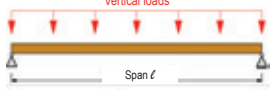
Species	Spruce and fir Other species on request
Quality	N Normal for visible constructions I Industry for constructions with low esthetical requirements
Strengths class	GL24h, GL28h Other strength classes on demand
Beam heights	120 mm - 1'000 mm multiplication of 40 mm
Beam widths	100 mm - 280 mm multiplication of 20 mm Can be extended as required through block gluing
Beam lengths	4.00 m - 18.00 m
Surface	Planed and chamfered on all four edges
Moisture content	12 % $\pm$ 2 %
Strength values GL 24h	According SIA 265 or EN 14080:2013
Reaction to fire	D-s2,d0 (according to EN 13501-1)
Adhesive details	Polyurethane (PUR), Type I according EN 15425 Solvent-free (no formaldehyde) Transparent glue-lines
Schematic representation	

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 ²																					
Residential cat. A1		q_k 2.0 kN/m ²																					
Span/span ℓ (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	240	240	240	240	280	280	280	280	280	280	320	320	320	320	320	360	360	
	120	200	200	200	200	200	240	240	240	240	240	280	280	280	280	280	280	320	320	320	320	320	360
	140	160	200	200	200	200	200	200	240	240	240	240	240	280	240	280	280	280	280	320	280	320	320
	160	160	160	200	200	200	200	200	200	240	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	240	280	240	280	280	280	280	320
	200							200	200	200	200	240	240	240	240	240	240	240	240	240	280	280	280
	220														240	240	240	240	240	280	240	280	280
	240																	240	240	240	240	280	280
	260																						280

Heavy construction		g _k 1.6 kN/m ²																					
Residential cat. A1		q _k 2.0 kN/m ²																					
Span/span ℓ (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	320	320	320	320	360	320	360	360	360	400	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	320	320	320	320	320	360	360	360	
	160	200	200	200	200	240	240	240	240	240	280	280	280	280	320	280	320	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	360	
	200				200	200	200	200	240	240	240	240	240	280	280	280	280	280	320	320	320	360	
	220											240	240	240	240	280	280	280	280	280	320	320	
	240											240	240	240	240	280	240	280	280	280	280	320	
	260																	280	280	280	280	280	

Heavy construction		g_k 1.6 kN/m ²																					
Residential cat. B		q_k 3.0 kN/m ²																					
Span/span ℓ (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	320	320	320	320	320	360	360	360	360	400	360	400	440	
	120	200	240	240	240	240	280	280	280	280	320	320	320	320	360	320	360	360	360	360	400		
	140	200	200	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	320	320	320	320	320	360	360		
	180	200	200	200	200	240	240	240	240	240	280	280	280	280	280	320	280	320	320	320	360		
	200	200	200	200	200	240	240	240	240	240	240	280	280	280	280	280	280	320	320	320	320		
	220											240	240	280	240	280	280	280	280	320	280	320	
	240														240	280	280	280	280	280	320	320	
	260																	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.

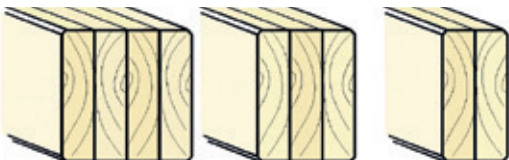
TECHNICAL DATA SHEET

LAM TIMBER BEAM

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

Species	Spruce and fir
Quality	N Normal for visible applications I Industry for constructions with low esthetical requirements
Strengths class	C24
Beam heights	100 mm - 280 mm, multiplication of 20 mm
Beam widths	80 mm - 160 mm, multiplication of 20 mm
Beam lengths	4.00 m - 18.00 m
Surface	Planed and chamfered on all four edges
Moisture content	12 % $\pm$ 2 %
Strength values GL 24h	According SIA 265 or EN 14080:2013
Reaction to fire	D-s2,d0 (according to EN 13501-1)
Adhesive details	Polyurethane (PUR), Type I according EN 15425 Solvent-free (no formaldehyde) Transparent glue-lines
Schematic representation	

RBS RIGI TIMBER BEAMS

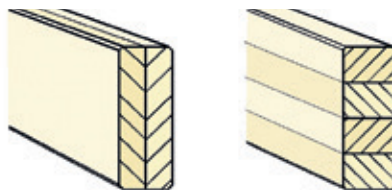
Species	Spruce and fir Other species on request
Quality	N Normal for visible applications
Strengths class	C24
Beam depths	100 mm - 280 mm, multiplication of 20 mm
Beam widths	80 mm - 160 mm, multiplication of 40 mm 2 to 4 lamellas are glued vertically
Beam lengths	4.00 m - 18.00 m
Surface	Planed and chamfered on all four edges
Moisture content	12 % $\pm$ 2 %
Strength values GL 24h	According SIA 265 or EN 14080:2013
Thermal conductivity	$\lambda = 0.13 \text{ W/(m.K)}$
Reaction to fire	D-s2,d0 (according to EN 13501-1)
Adhesive details	Polyurethane (PUR), Type I according EN 15425 Solvent-free (no formaldehyde) Transparent glue-lines
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.

Species	Mixed: Spruce, fir, larch and douglas fir
Quality	I Industry for constructions with low esthetical requirements
Strengths class	C24
Beam heights	80 mm - 280 mm, multiplication of 20 mm
Beam widths	60 mm
Beam lengths	13.00 m
Surface	Planed and chamfered on all four edges. Rough and non-chamfered parts to be tolerated
Moisture content	15 % ± 3 %
Strength values GL 24h	According SIA 265 or EN 14080:2013
Reaction to fire	D-s2,d0 (according to EN 13501-1)
Adhesive details	Polyurethane (PUR), Type I according EN 15425 Solvent-free (no formaldehyde) Transparent glue-lines

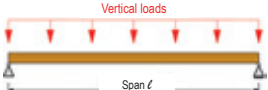
Schematic representation

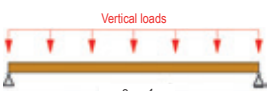


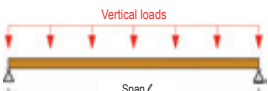


PRE-SIZING TABLE

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

Light construction		g_k 0.8 kN/m²																				
Residential Kat. A1		q_k 2.0 kN/m²																				
Span/span ℓ (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						
	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	
	140				140	160	160	160	180	180	180	200	200	200	220	220	220	240	240	240	260	260
	160											180	180	200	200	200	220	220	240	220	240	260

Heavy construction		g_k 1.6 kN/m ²																				
Residential Kat. A1		q_k 2.0 kN/m ²																				
Span/span ℓ (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		

Heavy construction		g_k 1.6 kN/m ²																				
Residential Kat. B		q_k 3.0 kN/m ²																				
Span/span ℓ (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	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 : 120x200mm

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

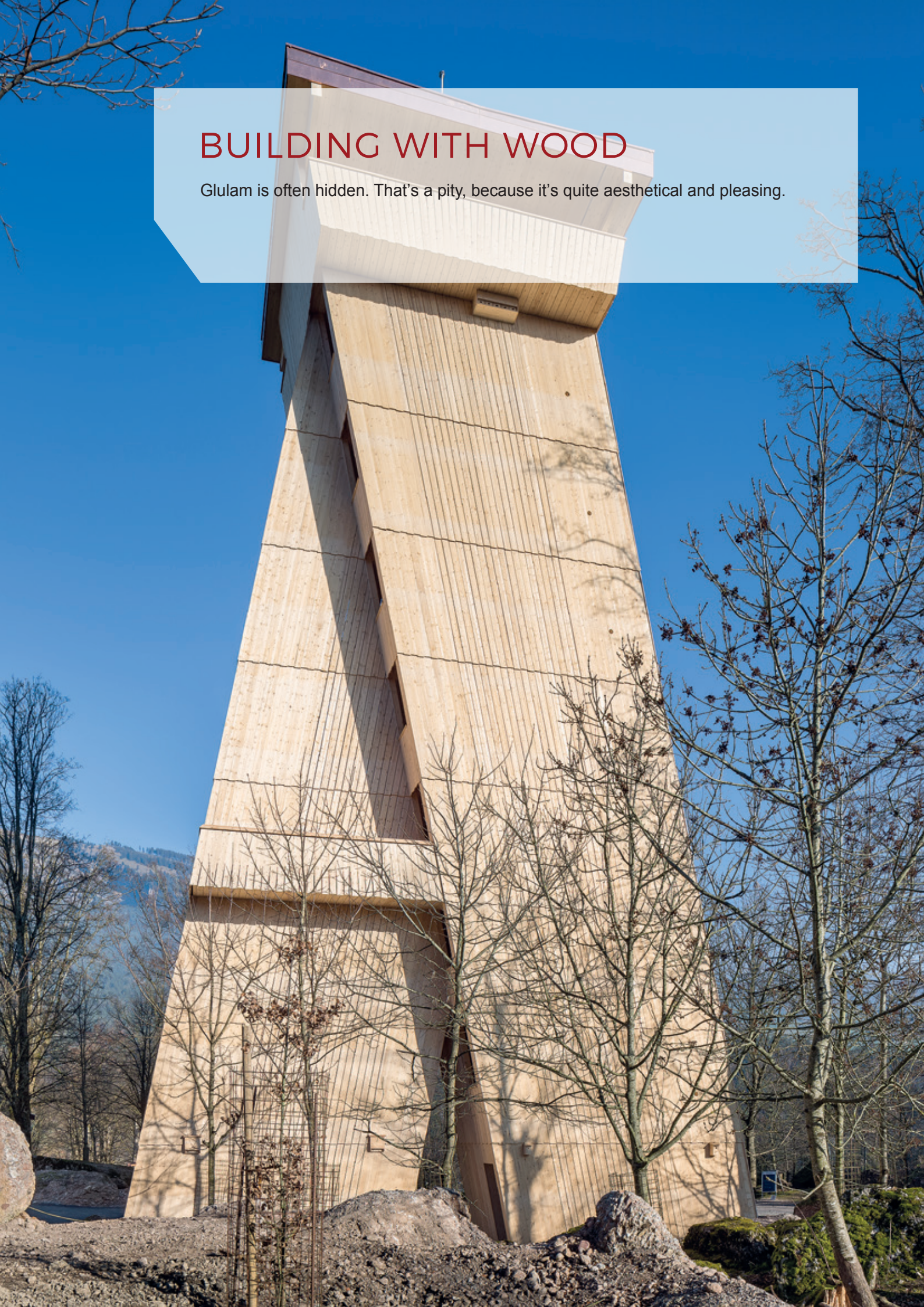
In cooperation with a painter, we offer you a wide range of surface treatments and colors, e.g. covering paints, wood finishes or UV protection.

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.





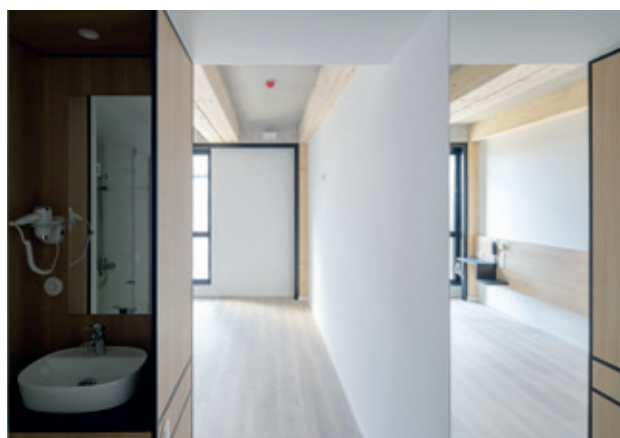
Arboretum Campus, Paris (F)



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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