

LAMINATED WOOD CEILING SYSTEMS





YOUR PRODUCT

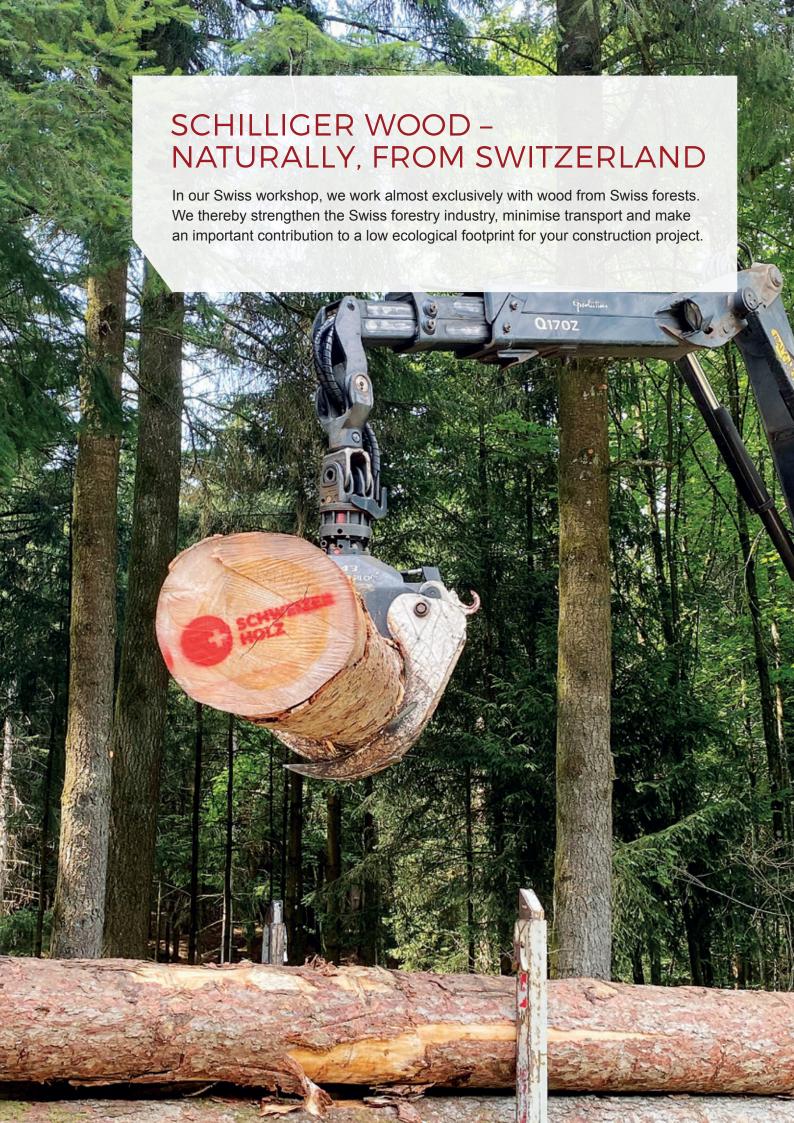
- High carrying capacity with low bulk density
- High form stability through gluing
- Lengths $4.00 \, \text{m} 18.00 \, \text{m}$, thicknesses $100 \, \text{mm} 280 \, \text{mm}$, widths $200 \, \text{mm} 1,000 \, \text{mm}$
- Automated production with large capacity
- Very high precision thanks to state-of-the-art technology
- Optimal material utilisation
- Constant further development through regular quality controls

YOUR BENEFITS

- Versatile applications thanks to 4 different standard profiles
- Many different process options (joinery, surface treatment) according to your wishes
- Optimised delivery times, including for large projects, delivery straight to the construction site
- Quick and economic assembly thanks to the high degree of prefabrication
- Personal counselling by our sales team

AND ESPECIALLY ...

 CLT, laminated wood, solid wood, planed goods, wood fibre insulation boards – everything from one single provider



QUALITY CRITERIA

CHARACTERISTICS	NORMAL QUALITY	For areas without appearance requirements, e.g. industrial and production warehouses, non-visible roof trusses, agricultural buildings etc. permitted permitted				
General	For visible areas with normal appearance requirements, e.g. visible roof trusses, living areas, carports etc.					
Knots - Healthy knots with a strong implantation - Other knots and knotholes	permitted permitted patched with largest visible diameter over 20 mm					
Resin pockets	permitted up to 5 mm x 50 mm	permitted				
Bark ingrowth	not permitted	permitted				
Wane and bark	not permitted bark not permitted	wane permitted				
Colourings (blue/brown and red stripes)	permitted up to 10% of the visible surface	permitted				
Rot	not permitted	not permitted				
Insect infestation	Wormholes up to 2 mm in diameter permitted with inactive insect infestation	Wormholes up to 2mm in diameter permit ted with inactive insect infestation				
Cracks	Shrinkage cracks up to 4 mm crack width permitted Other cracks not permitted	Shrinkage cracks permitted Other cracks not permitted				
Lengthwise curvature	permitted up to 4 mm over 2 m	permitted up to 4 mm over 2 m				
Finger joint gap between the covering slats	no limit	no limit				
Surface	planed and bevelled	planed and bevelled				
Repairs with wedges, dowels, slats etc.	permitted	not necessary				
Repairs with filler (e.g. putty)	permitted	not necessary				
Plane iron impacts	no limit	no limit				

SOLID WOOD BOARDS

Standard for ceilings and floors.



TECHNICAL DATA

Wood type	Spruce/fir
Appearance classification	N Normal quality for visible areas I Industry quality for areas without appearance requirements
Strength class	C24
Board thickness	100 mm - 280 mm in 20 mm-segments
Board thickness	200 mm - 1,000 mm in 50 mm-segments
Lengths	4.00 m - 18.00 m
Surface	 Planed and bevelled on 4 sides Surface sanding for visible areas upon request
Wood humidity	12 % ± 2%
Thermal conductivity	$\lambda = 0.13 \text{W/(m \cdot K)}$
Fire protection class	D-s2,d0 (according EN 13501-1)
Gluing	 Polyurethane (PUR), glue type according to EN 15425 Solvent-free (no formaldehyde) Colourless glue joints
Schematic representation	

JOINT FORMATION

Standard joint profile

We provide the solid wood boards with four different standard profiles:

Blunt, without grooves

No processing of the board joints



Groove-groove

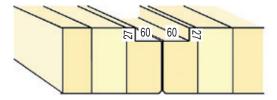
One or two-sided groove for tongues Groove dimensions 31 x 35 mm, tongue 31 x 65 mm



Rabbet

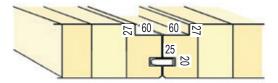
Rabbet for joint cover

Rabbet dimensions 27 x 60 mm, 3-layer joint cover 27 x 120 mm



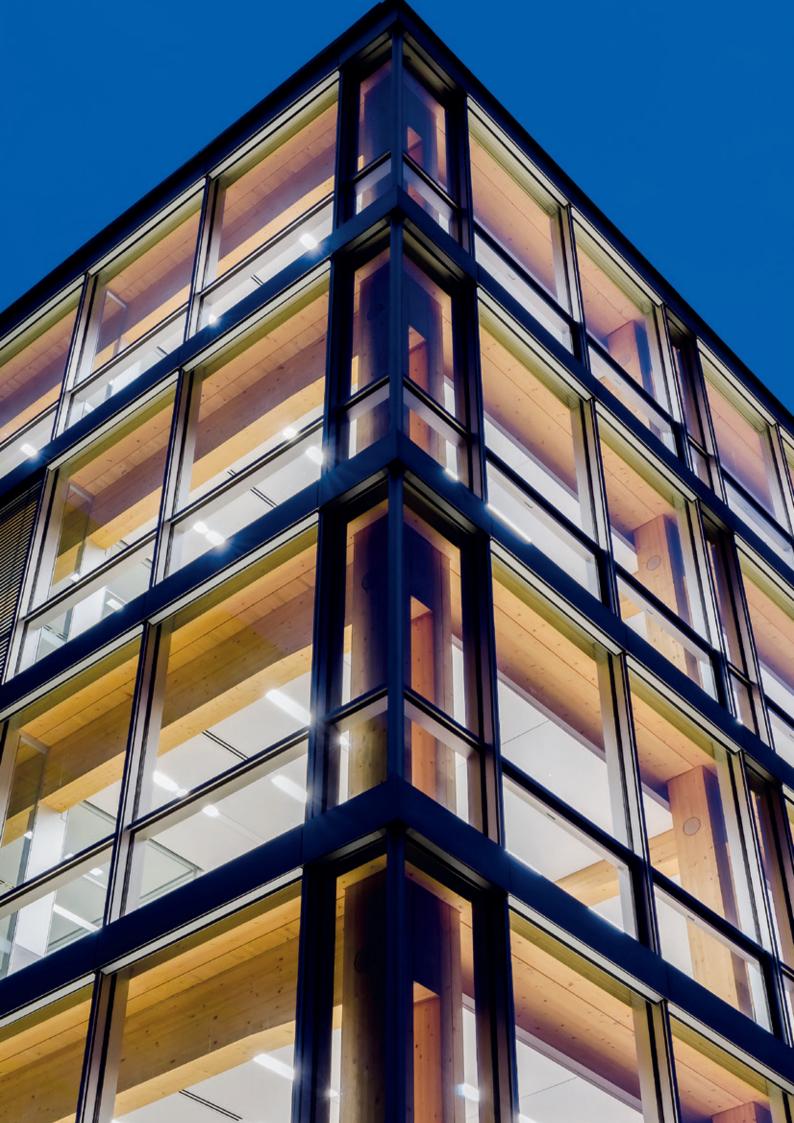
Groove-groove and rabbet

Groove for tongue and rabbet for joint-cover Groove dimensions 20 x 25 mm, tongue 20 x 45 mm Rabbet dimensions 27 x 60 mm, 3-layer joint-cover 27 x 120 mm



Joinery

- · High precision, with optimal material utilisation
- Many different process options thanks to state-of-the-art technology
- · Constant further development through regular quality controls
- · Advice from qualified expert workers
- Quick and economic assembly at the construction site or in the workshop through a high degree of prefabrication



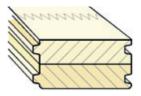
DBS RBS/MHT FLOORBOARDS

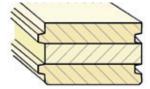
Simply beloved.

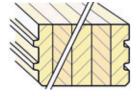


TECHNICAL DATA

Wood type	Spruce/fir
	Other wood types upon request
Appearance classification	N Normal quality for visible constructions, one visible side
	I Industry quality for areas with low appearance requirements
Strength class	C24
Board heights	80 mm - 200 mm in 20 mm-segments
Board widths	Type A DBS/RBS: 190 mm
	Type B DBS/MHT: upon request
Lengths	4.00 m - 18.00 m
Surface	Planed and bevelled on 4 sides
	Visible surface sanded upon request
Wood humidity	12 % ± 2%
Thermal conductivity	$\lambda = 0.13 \text{W/(m \cdot K)}$
Fire protection class	D-s2,d0 (according to EN 13501-1)
Gluing	Polyurethane (PUR), glue type I according to EN 15425
	Solvent-free (no formaldehyde)
	Colourless glue joints
Schematic representation	







DBS RBS Type A DBS MHT Type B



MHP PRE-MEASUREMENT TABLE

W/H CROSS-SECTION FOR THE SERVICEABILITY CHECK FOR NON-DEFORMATION-SENSITIVE INSTALLATIONS WITH W < L/350

Light floor structure	g _k 0.8	3 kN/m²										
Living cat. A1	q _k 2.0) kN/m²										
Span width ℓ in m		3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00
Sprung mass = width = 1.0 m												
Width / Thickness [mm]	1,000	100	100	120	120	140	160	180	180	200	220	240

Heavy floor structure	g _k	1.6 kN/m ²										
Living cat. A1	$\mathbf{q}_{\mathbf{k}}$	2.0 kN/m ²										
Span width ℓ in m		3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00
Sprung mass = width = 1.0 m												
Width / Thickness [mm]	1,000	100	120	120	140	160	180	180	200	220	240	260

Heavy floor structure	g _k	1.6 kN/m ²										
Office cat. B	q_k	3.0 kN/m ²										
Span width ℓ in m		3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00
Sprung mass = width = 1.0 m												
Width / Thickness [mm]	1,000	0 100	120	140	140	160	180	200	220	240	240	260

Preconditions



Loads g^k and g^k distributed equally across the entire surface. No single load.

Straight single-span girders with constant right-angle cross-section and with C24 strength.

Girders protected against weather conditions (humidity class 1).

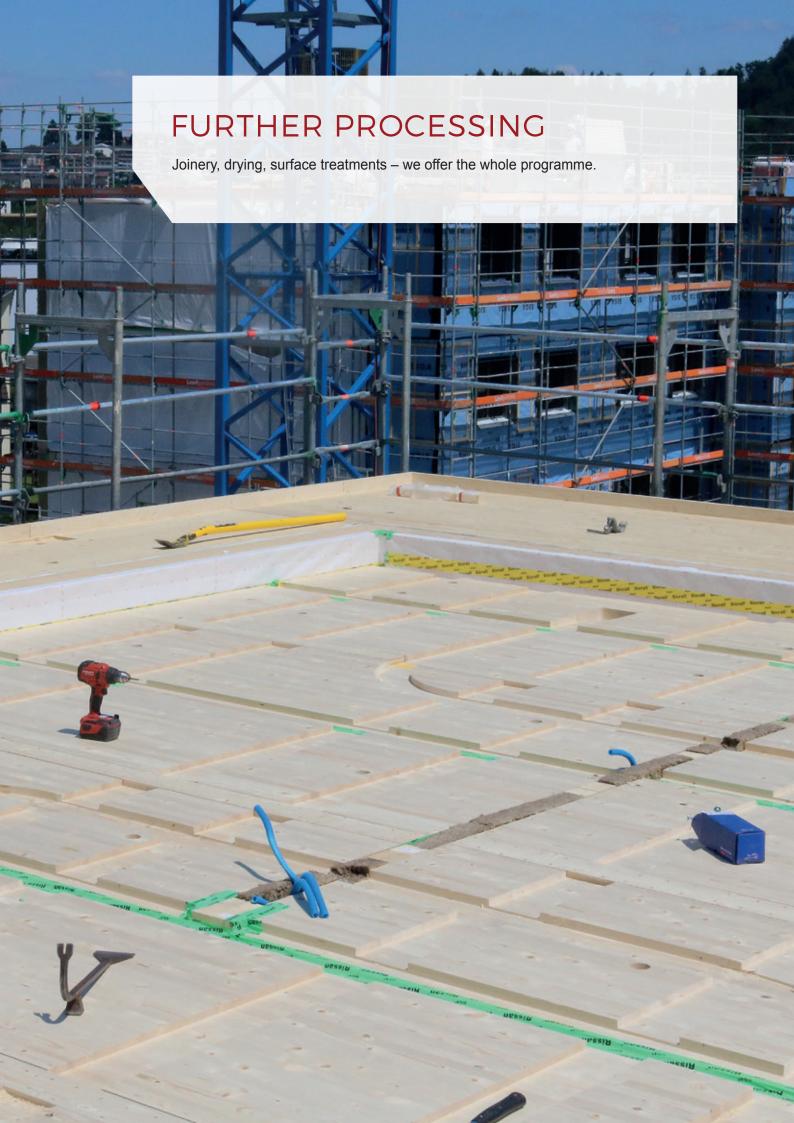
Long-term effects due to creep are taken into account.

Preconditions generally according to SIA norms.

Application example

Living surface (category A1) $q^k=2.0kN/m^2$. Heavy floor structure $g^k=1.6kN/m^2$. Span width $\ell=6.00\,m$. Possible thickness with MHP: 180 mm

This table helps with pre-measurement; however it does not replace a statistical calculation.



JOINERY: AT THE HIGHEST LEVEL

Our modern, robot-controlled joinery facility has a diverse range of tools and works with the highest precision. This allows us to cater to your individual construction wishes and manage complex projects. Data from various drawing programs can be directly fed into our system for this purpose.

DRYING: FULL SERVICE

Thanks to a large number of modern, computer-controlled drying installations, the wood is not denatured.

SURFACE TREATMENTS: EXACTLY AS YOU WANT

In cooperation with a painting company, we offer a large number of surface and colour treatments.

AND ESPECIALLY ...

Thanks to our Schilliger lorry fleet, we can offer transport services directly to your construction site.



SCHILLIGER HOLZ AG - ALWAYS CLOSE TO YOU

Haltikon (CH)

Main office; sawn timber, planed goods, glued wood, panels, sawmill by-products



Küssnacht am Rigi (CH) Wood fibre insulation boards



Perlen (CH) Sawn timber, sawmill by-products



Volgelsheim (F)

Sawn timber, finger-jointed solid wood, panels, sawmill by-products



SCHILLIGER HOLZ AG Haltikon 33 CH-6403 Küssnacht am Rigi

+41 41 854 08 00

info@schilliger.ch www.schilliger.ch

SCHILLIGER BOIS SAS Rue du Port Rhénan F-68600 Volgelsheim

+33 389 72 16 00

info@schilliger.fr www.schilliger.fr















