



GLUED LAMINATED TIMBER

7 · 2020

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**THEURL
MORE THAN STANDARD
CLEVER SOLUTIONS**

The challenging living conditions in the mountains strengthen the resilience of the spruces. Spruce wood is therefore the perfect material for our glued laminated timber production. Easy workability and high strength are the key characteristics and qualities of glued laminated timber.



REX
Holzbearbeitungsmaschinen

GLUED LAMINATED TIMBER

THEURL glued laminated timber is made of at least two lamellas. The load capacity is much greater than that of conventional timber, due to the layered structure. Another quality characteristic is the selected knotless wood, which is glued parallel to the fibre and planed on four sides, resulting in aesthetically pleasing functional components.

The automatic testing of each individual lamella is standard. The exact strength class is determined by the Microtec GOLDENEYE, pursuant to Önorm EN 14081-1.



ORDER-RELATED JUST-IN-TIME PRODUCTION

PRODUCT CHARACTERISTICS	Wood type:	local spruce (larch on request)
	Thickness of lamellas:	40 mm
	Wood moisture content:	11 % +/- 2,5 %
	Surface:	Visual or industrial quality, planed on 4 sides, Chamfered edges
	Strength class:	GL 20h, GL 24h, GL 28c, GL 30c, GL 32c

QUALITY CHARACTERISTICS	Product standard:	EN 14080:2013
	Finger jointing:	EN 385:2002
	Sorting:	mechanically according to DIN 4074-4 and EN 14081-1
	Gluing:	MUF melamine resin urea-based glue, weather-proof, transparent glued joints

SUPPLY RANGE	Width:	60 – 280 mm
	Height:	120 – 1280 mm
	Length:	Min. 6 m – max. 18 m

Cross section		Quality		Strength class				
Width mm	Height mm	View	Industry	GL 20h	GL 24h	GL 28c	GL 30c	GL 32c
			Sort class	T 10	T 14	T 22 (T 14)	T 22 (T 14)	T 26 (T 14)
60	120 - 480		■	■				
80	120 - 1280	■	■		■	■	■	■
100	120 - 1280	■	■		■	■	■	■
120	120 - 1280	■	■		■	■	■	■
140	120 - 1280	■	■		■	■	■	■
160	120 - 1280	■	■		■	■	■	■
180	120 - 1280	■	■		■	■	■	■
200	120 - 1280	■	■		■	■	■	■
220	120 - 1280	■	■		■	■	■	■
240	120 - 1280	■	■		■	■	■	■
280	120 - 1280	■	■		■	■	■	■

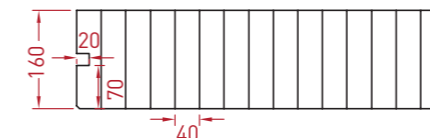
On request: Strength class GL 28h, GL 30h, GL 32h
Width 60 mm

GLULAM CEILING ELEMENTS

THEURL produces ready-to-fit ceiling elements with various profiles. Dimensional accuracy and perfect surfaces help to reduce construction time and costs.

Quality:	GL 24h
Standard dimensions	
Height:	400 / 600 mm, maximum width 1200 mm
Thickness:	80 - 280 mm
Length:	6 - 18 m

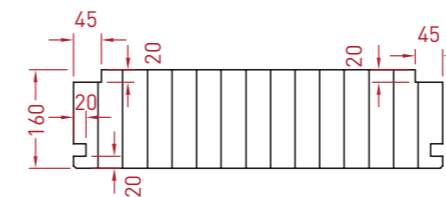
Glulam elements, single groove, type 1



Thickness	80	100	120	140	160	180	200	220	240	280
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Covered dimensions (= invoiced dimensions): 600 mm | Groove: 20 mm

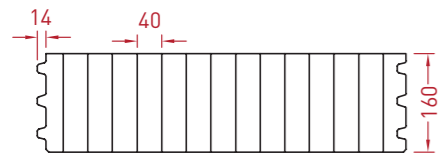
Glulam elements, single groove and rabbet joint, type 2



Thickness	100	120	140	160	180	200	220	240
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Covered dimensions (= invoiced dimensions): 600 mm | Groove: 20 mm | Rabbet above: 20 x 45 mm

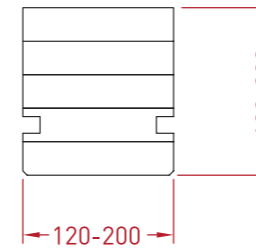
Glulam elements, double tongue and groove, type 3



Thickness 80 100 120 140 160 180 200 220 240

Covered dimensions: 580 mm | Invoiced dimensions: 600 mm | Groove: 14 mm

Glulam natural elements, single groove, type 1



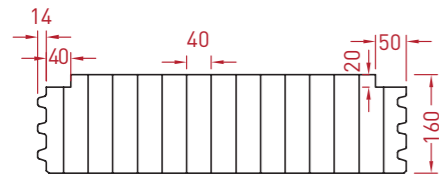
Standard dimension

Thickness: 120, 160, 200 mm

Width: 140, 160, 180, 200 mm

Length: 6 - 18 m

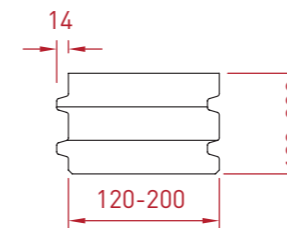
Glulam elements, double tongue and groove with rabbet joint, type 4



Thickness 100 120 140 160 180 200 220 240

Covered dimensions: 580 mm | Invoiced dimensions: 600 mm | Groove: 14 mm | Rabbet above: 20 x 40 mm and 20 x 50 mm

Glulam natural elements, double tongue and groove, type 3



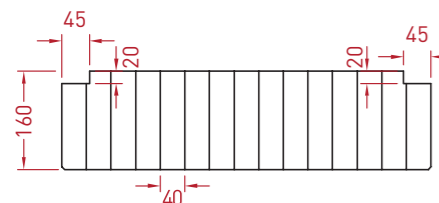
Standard dimension

Thickness: 120, 160, 200 mm

Width: 140, 160, 180, 200 mm

Length: 6 - 18 m

Glulam elements, with rabbet joint, type 5



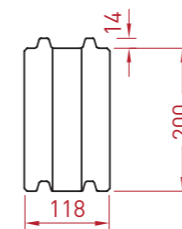
Thickness 80 100 120 140 160 180 200 220 240

Covered dimensions (= invoiced dimensions): 600 mm

Rabbet above: 20 x 45 mm (thickness 100 - 240 mm) | Rabbet above: 20 x 20 mm (thickness 80 mm)

Block planks

There is hardly anything more typical of the special Alpine flair than these block planks. With their humidity-regulating heat, sound and fire protection values, they create a comfortable indoor climate. On each side, they have a ready-to-install visible surface, which allows this product to have several variations. Thanks to the ready-to-install delivery, it is easy to assemble the components quickly and precisely.



Strength class: C24 (pursuant to 338)

Quality: Visual quality

Standard dimensions

Thickness: 118, 158, 198 mm

Height: 220 mm

Length: 6 - 18 m

JOINERY



THEURL YOUR PLAN OUR PRECISION

Anything is possible. There is a solution for everything – even the most complex wooden structure. We convert your project into impressive, high-quality CNC components. State-of-the-art processing machines cut wood into any shape quickly and precisely. Together with our customers, we are aiming to take timber construction into a new dimension.

EVERYTHING UNDER ONE ROOF

With computer-assisted manufacturing, THEURL meets the highest precision and quality requirements of modern timber construction. In our assembly facilities, we carefully and expertly produce individual wooden structures measuring up to 18 m in length and 1.25 m in height. The years of experience of our employees and the high precision of the three joinery machines play an important role in this. They guarantee sustainable customer service. Specifically, everything from the realisation of the design as ready-to-install and millimetre-accurate components, to the quality control at the end of processing, is covered.

OUR JOINERY SERVICE

CONSULTANCY

Representation of the offer.
Competent advice in the planning phase.
Calculation for the offer.
Preliminary calculation by means of the THEURL calculation.
Reliable processing and development.

DATA PREPARATION

SEMA, Dietrich's and cadwork.
Other kinds of processing are also possible.

JOINERY MACHINES

Hundegger K2i 1250 ROBOT
Hundegger K2i 1250 5 axles
Hundegger K2 625 5 axles

WOODEN ELEMENTS

max. length 18 m
max. height 1250 mm
max. width 280 mm

SURFACE TREATMENTS AND REFINING STEPS

Chopping
Brushing
Painting
are optionally available from our partner companies.

PRE-ASSEMBLY

with connectors; from the insertion of the connectors to the ready-to-install constructions.

LOGISTICS

Timely delivery of the ready-to-install constructions with prepared installation plans.



