



**PRODUCT, SERVICE  
AND TECHNICAL DATA**

**CLT<sub>PLUS</sub>**  
CROSS LAMINATED TIMBER  
BY THEURL

# CLTPLUS

Cross Laminated Timber by THEURL  
Walls, ceilings and roofs – everything from a single source

## Optical quality

Suitable for visible surfaces  
Enhanced industrial quality  
Industrial quality

## Surface processing

We sand our CLTPLUS elements in the grain direction to emphasise the natural structure of the high-quality mountain timber. In visible components, this procedure optimally emphasises the qualities of the surface.

## Narrow side adhesion

The individual timber layers are first glued to form a one-layer board to create high air density. At the same time, this procedure increases the stability and enhances the shear stiffness and earthquake protection.

## Joinery

Millimeter precision with 5-axis CNC joinery machine

Type of wood	Spruce, fir and pine
Wood moisture content	12 % +/- 2,5 %
Panel structure	3, 5, 7 or 8 layers Single-layer panels bonded cross-wise on the surface side and narrow side

## Panel measurements

Thickness	60 – 320 mm
Length	8 – 16 m (in 10 cm increments)
Width	2,25 – 3,50 m
Grid dimensions	225 cm 245 - 295 cm (in 10 cm increments) 310, 330 und 350 cm

# SERVICE

The joint will to go beyond the boundaries of what is possible makes us a strong service partner for timber construction.



## Competence Center

The greater the level of prefabrication, the greater the need for collaboration. Our Competence Center has the task of organising, communicating, and coordinating such processes. They are your contact on site.



## Structural timber solutions for all components CLTPLUS, glued laminated timber with prefabrication service

Together, CLTPLUS and cross-laminated timber are an unbeatable team. Theurl offers both products as a complete system from a single source. In this way, interfaces can be optimally coordinated from as early on as in the planning phase, and nothing is in the way of the millimetre-precision connection of the components. This leads to high-tech complete timber construction solutions which are technically and economically convincing.



## A one-contact philosophy

You should only have one contact person for your entire project – that's our philosophy. A speedy flow of information, clear communication and comprehensive technical advice is what we promise for your project.



## Network of specialists

In the event of specific questions and particular technical concerns, we consult our network of partners. This comprises structural engineers, architects, timber construction companies and logistics partners.

# STANDARD STRUCTURES

## C-panel · wall

Element type	Thickness (mm)	Element structure/lamellae thickness (mm)					
		C	L	C	L	C	L
C3	60	20	20	20			
	80	30	20	30			
	90	30	30	30			
	100	30	40	30			
	120	40	40	40			
C5	100	20	20	20	20	20	
	120	30	20	20	20	30	
	140	30	30	20	30	30	
	160	40	20	40	20	40	
	180	40	30	40	30	40	
	200	40	40	40	40	40	

## L-panel · ceilings and roofs

Element type	Thickness (mm)	Element structure/lamellae thickness (mm)					
		L	C	L	C	L	C
L3	60	20	20	20			
	80	30	20	30			
	90	30	30	30			
	100	30	40	30			
	120	40	40	40			
L5	100	20	20	20	20	20	
	120	30	20	20	20	30	
	140	40	20	20	20	40	
	160	40	20	40	20	40	
	180	40	30	40	30	40	
	200	40	40	40	40	40	
L5 · 2	160	30 · 2	40	30 · 2			
L7	180	30	20	30	20	30	20
	200	20	40	20	40	20	40
	220	40	20	40	20	40	20
	240	30	40	30	40	30	40
L7 · 2	180	30 · 2	20	20	20	30 · 2	
	200	30 · 2	30	20	30	30 · 2	
	220	40 · 2	20	20	20	40 · 2	
	240	40 · 2	20	40	20	40 · 2	
	260	40 · 2	30	40	30	40 · 2	
	280	40 · 2	40	40	40	40 · 2	
L8 · 2	300	40 · 2	30	40 · 2	30	40 · 2	
	320	40 · 2	40	40 · 2	40	40 · 2	

Alternative formats possible upon request. The double-length layers are suitable for particularly stringent, static requirements.

### Structure

Top layer in spruce  
Central layer in  
spruce, fir, pine



C3



C5



L3



L5



L5 · 2



L7



L7 · 2



L8 · 2

# OUR JOINERY SERVICES

Thanks to our cutting-edge joinery machines, CLTPLUS elements can be quickly and precisely transformed into every planned shape imaginable. Together with our customers, we aspire to achieve new dimensions in timber construction.

## CAD / CAM expertise

We design on all standard CAD programmes – SEMA, Dietrich`s, CADwork und HSB.

## Panel dimensions

Max. length 16 m · Max. width 3,5 m · Max. thickness 320 mm

## Joinery machine

Hundegger Gantry Machining Centre for Industry  
5-axis universal milling unit  
5-axis circular saw  
5-axis chain saw

## Joinery services

- + Formatting at right angles to the panel surface
- + Ceiling and wall timber framing – cut at right angles for the panel surface
- + Machined on both sides
- + Outlets and openings for beams, purlins and rafters
- + Deep-hole drilling electrical installation
- + Post-machining of corner curves

