

## GENERAL INFORMATION

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

## THE FUTURE BEGINS WITH CLTPLUS

Solid. Extremely resistant. Beautiful.

Energy-efficient, durable, recyclable, extremely resistant and CO2 neutral: Could a construction material be any more versatile? At least three layers of cross-laminated board make CLTPLUS an almost universally applicable, particularly stable product: the large-format solid wood CLTPLUS boards are used to form wall, ceiling or roof elements. The high level of pre-fabrication permits short construction times without drying phases. CLTPLUS in a quality that does not require masking also creates a comfortable atmosphere and high room quality.

## NATURAL & SUSTAINABLE

CO2-neutral material from sustainable forestry

Solid wood structures offer a healthy and comfortable indoor climate. Its good insulation properties produce a slow phase shift, permitting year-round pleasant temperatures in buildings. CLT PLUS is a certified and proven CO2-neutral material from sustainable forestry which makes ecological construction easy.

## STABLE & SAFE

excellent fire safety properties

A support structure made from CLTPLUS is a static system with many positive properties. This means that buildings with several floors can also be created. The cross-gluing of the individual panels maximises the tensile strength and dimensional stability of the material. Its simultaneous flexibility means that a CLTPLUS structure offers high earthquake safety. The combustion layers ensure that the support structure has excellent fire safety properties and is therefore a genuine high-tech product.

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## ONE PRODUCT - MANY BENEFITS

CLTPLUS is a stable and reliable construction material prefabricated to measure individually and precisely in the factory. The high degree of pre-fabrication make it a high-tech construction material which is both economical, stable and natural at the same time. Its good ecobalance and ability to store CO2 really set it apart from its competitors.

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## INDIVIDUAL & PRECISE

combination with other materials

Components made from CLTPLUS are characterised by high accuracy and a precise pre-fabrication process. The choice of dimensions permits individual design of the construction project. Depending on the specific construction task, the solid wood components are also highly suitable for combination with other materials.

## ECONOMICAL & LASTING VALUE

high level of pre-fabrication

Construction elements made from CLTPLUS are pre-fabricated in the factory, independent of weather conditions. The high level of pre-fabrication results in an economical design, in particular due to the short set-up and construction time. The low noise and dust pollution of assembly is also a positive factor in solid wood construction. The low component thickness compared to mineral wall structures results in additional space gain and higher efficiency.



# THE NEW CLTPLUS TECHNOLOGY

The high-performance construction material with great potential.  
At least three layers of cross-laminated board make CLTPLUS an almost universally applicable stand-out product.

## High Stability

The timber layers are pressed with alternating core sides in the central positions. This means that higher form stability and dimensional accuracy is obtained for the elements.

## 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 emphasizes the qualities of the surface.

## Pressing power

For an optimal and even pressing result, our CLTPLUS components are manufactured by using the latest pressing technology with a pressing power of 1 N/mm<sup>2</sup>.

## THEURL Inside Codierung

Each timber layer receives an individual code which is invisible from the outside. This makes the origin of each component traceable for life.

## 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 stiffness and earthquake protection.

## Bending stiffness

Various timber layer thicknesses in the layer structure adapt the bearing capacity of the component to the requirements of the statics. The component structure, which is specifically adapted to the load, reliably absorbs the forces.

+ Production batch size 1

+ inimal waste

+ X-rayed raw timber layers

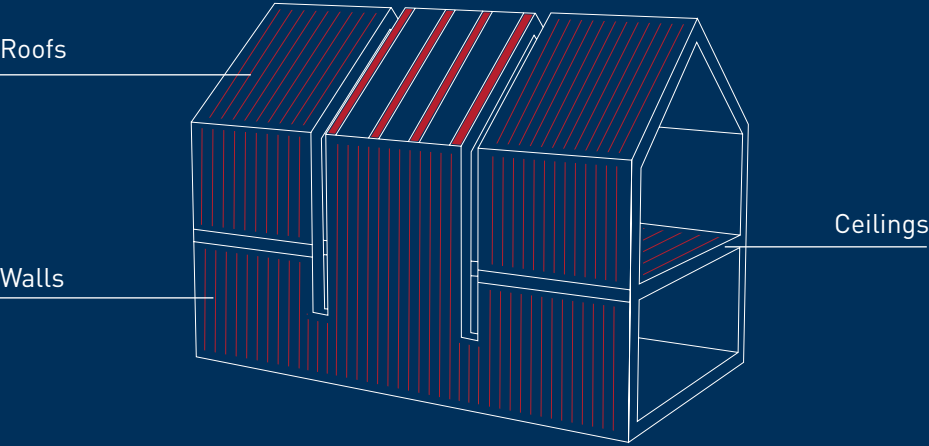
+ Timber framing precision-cut to the millimetre

+ Various timber layer thicknesses with a layer structure

+ Panel width: 2,25 – 3,50 m

# STRUCTURAL TIMBER SOLUTIONS FOR ALL COMPONENTS

CLTPLUS, glued laminated timber with prefabrication service



- |             |                |                                 |                                       |
|-------------|----------------|---------------------------------|---------------------------------------|
| + Precision | + Time savings | + One contact person philosophy | + CAD / CAM expertise (same language) |
|-------------|----------------|---------------------------------|---------------------------------------|

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. We offer our customers one timber construction solution – from technical knowledge and design to production and logistics. The shared willingness to shift the limits of the feasible makes us a strong industrial partner for timber construction.

# COMPETENCE CENTER

CC Tyrol/Carinthia, CC Voralberg,  
CC South Tyrol, CC Bavaria



**Discover a Competence Center near you.**  
More detailed information is available at [www.theurl-holz.at](http://www.theurl-holz.at)

## Extensive expertise combined with state-of-the-art technology

Pre-fabrication, precision, and speed are strong long-term arguments for timber construction. Optimisation of construction processes is ongoing and complex planning and decision-making processes for everyone involved are all necessary for a perfect end result. Expertise and in-depth knowledge of construction processes and interfaces are the basis on which innovative timber constructions and suitable high-tech constructions can be planned. This is where we create added value. Investment in our expertise and regular communication amongst our specialists.

