



pfeifergroup.com



CLT₁₂₅

Cross laminated timber

FACTS



Advantages of Pfeifer CLT

- ≡ Massive wood
- ≡ Ecological & Sustainable / CO2 storage
- ≡ Promotes a positive indoor climate
- ≡ Low dead weight
- ≡ Easy and quick installation

Other advantages Pfeifer CLT125

- ≡ No grid dimensions in the length of 8,00-14.50 m
- ≡ Available in visible surface qualities on request: Industrial view and residential view
- ≡ Fast availability
- ≡ Easy handling
- ≡ Possibility of jointing on 125-piece jointing lines
- ≡ Stockable

Application examples

- ≡ Single and multi-family houses
- ≡ Multi-storey construction
- ≡ Industrial and hall construction / Commercial construction
- ≡ Office buildings
- ≡ Kindergartens and schools
- ≡ Trade fair and event construction
- ≡ Extensions

Application areas

- ≡ Wall components
- ≡ Ceiling components
- ≡ Roof components
- ≡ Flights of stairs and pedestals
- ≡ diaphragm components



Stockable



fast availability

PFEIFER CLT 125 · TECHNICAL PROPERTIES

≡ **Product designation:** PFEIFER CLT 125

≡ **Product Standard:** ETA 20/0023

≡ **Class of use:** NKL 1 and 2 (according to EN 1995)

≡ **Timber species:** European softwood, PEFC certified

≡ **Surface:** Industrial Quality (IQ), Industrial Visual Quality (ISQ), Residential Visual Quality (WSQ)

≡ **Timber moisture:** 12% +/- 2% (at the time of delivery)

≡ **Dimensional stability:**

Lengthwise and crosswise in panel plane: 0.01 % per% change in wood moisture

Perpendicular to the plate plane: 0.20% per% change in wood moisture

≡ **Adhesive:** Polyurethane (PU) adhesive (formaldehyde-free) for finger jointing and surface gluing (acc EN 301 or EN 15425)

≡ **Weight:** approx. 480 kg /m³ (for determining the transport weight)

≡ **Diffusion resistance:** μ = about 60 (at $u = 12 \% \pm 2 \%$)

≡ **Air tightness:** Class 4 (acc. EN 12207)

Airtight from 3 layers acc. Report HFA v. 29.11.2019

≡ **Thermal conductivity:** $\lambda = 0.12 \text{ W/(m.K)}$

≡ **Specific heat capacity:** $c_p = 1600 \text{ J/(kg.K)}$

≡ **Reaction to fire:** D-s2, d0 (acc. EN 13501)

≡ **Fire resistance / charring rate:** ~ 0.7mm/min. (for rough calculations)

≡ **Recycling: Waste key:** 17 02 01 (according to AVV)



PFEIFER CLT 125 · PANEL STRUCTURES

ORIENTATION		BUILD	LENGTHS	WIDTH	MASS*
CLT		MM	MM	M	KG/M2
60	3s	20-20-20	Individual: from 8.00 to 14.50 m in 1 cm increments Stock panels: 13.50 m Up to 8.00 m as Multi-length	1.25 m	28,8
80	3s	30-20-30			38,4
90	3s	30-30-30			43,2
100	3s	30-40-30			48,0
110	3s	40-30-40			52,8
120	3s	40-40-40			57,6
100	5s	20-20-20-20-20			48,0
120	5s	30-20-20-20-30			57,6
140	5s	40-20-20-20-40			67,2
150	5s	40-20-30-20-40			72,0
160	5s	40-20-40-20-40			76,8
180	5s	40-30-40-30-40			86,4
200	5s	40-40-40-40-40			96,0
180	7s	30-20-30-20-30-20-30			86,4
200	7s	20-40-20-40-20-40-20			96,0
220	7s	30-30-30-40-30-30-30			105,6
240	7s	30-40-30-40-30-40-30			115,2
260	7s	30-40-40-40-40-40-30			124,8
280	7s	40-40-40-40-40-40-40			134,4
180	7ss	30-30-20-20-20-30-30			86,4
200	7ss	30-30-30-20-30-30-30			96,0
220	7ss	30-30-30-40-30-30-30			105,6
240	7ss	40-40-20-40-20-40-40			115,2
260	7ss	40-40-30-40-30-40-40			124,8
280	7ss	40-40-40-40-40-40-40			134,4

Further build-ups are possible on request.

- **Standard stock panels:** 13.50 m
 - **Individual:** from 8.00 to 14.50 m in 1 cm increments, up to 8.00 m as a multiple length
 - ≡ **DL:** Longitudinal orientation of the outer layer
 - ≡ Outer layer(s) and, if necessary, middle layer(s) consisting of min. 2 fiber-parallel layers
 - ≡ Length without general finger joint
 - ≡ For production reasons, it may be necessary to change the panel structure at WSQ Quality.
 - ≡^{*)} Reference weight: 480 kg/m3
 - ≡ Dimensioning acc. EN 1995 in conjunction with ETA
- Preliminary design tables: on request or as a download via website www.pfeifergroup.com

PFEIFER CLT 125 · STANDARD JOINTS

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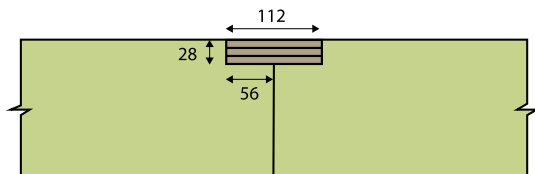
Standard stock panels



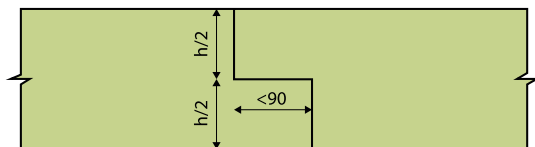
Please note: further jointing is not possible with stock panels!

Standard joint (for separate joint cover board):

Joint cover board 27x110 available in length of 5.00 m for on-site cutting to length on request.



Half-Lap-Joint



Further jointing (e.g. drilling / milling / perforations, etc.) on request.

PFEIFER CLT 125 · SURFACE QUALITIES

≡ **IQ Industrial Quality** (planed)

≡ **ISQ Industrial Visible Quality** (sanded)

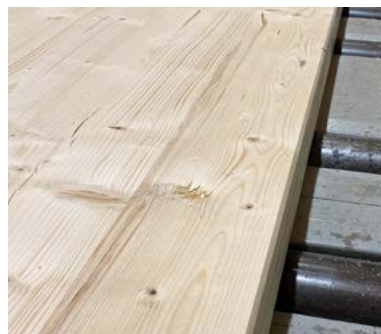
≡ **WSQ Residential Visible Quality** (sanded)



Panels in visual quality get a chamfer (about 5 mm) along the long sides.



CLT 125 stock panels available in ISQ/IQ



- ≡ More precise criteria (e.g. knot sizes, ...) of the surface options: on request or at www.pfeifergroup.com
- ≡ Criteria apply only to the panel surfaces.
The narrow sides and cut surfaces have no claim to surface quality
- ≡ Narrow sides of the panels are not glued for crack reduction
- ≡ Qualities are possible on one or both sides
- ≡ Due to production reasons, a changeover of the plate structure at WSQ quality may be required. Please inquire.
- ≡ Sanding with grain size 60 (= calibration)



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ALL OVER THE WORLD**

