TECHNICAL DATA

Product
Large sized solid wood boards with crosswise glued lamellas

Product name/Trade mark
KLH

Further product name
Cross laminated Timber (CLT), X - Lam

Use
Structural elements for walls, floors (ceilings) and roofs

Durability
Service class 1 and 2 according to EN 1995-1-1

Wood species
Spruce (Pine, Fir, Swiss stone pine and others on request)

Layers
3, 5, 7 or more layers according to structural requirements

Lamellas
Thickness 10 to 40 mm, kiln-dried, sorted in grade and fingerjointed

Grade
C 24 according to EN 338, maximum 10% C 16 permitted (see ETA-06/0138)

Bonding adhesive
Formaldehyde-free adhesive for finger jointing and surface bonding according to EN 301

Moisture Content
12% (+/- 2%)

Maximum dimensions
Length 16.50 m / Width 2.95 m / Thickness 0.50 m

Produced widths
2.40, 2.50, 2.72, 2.95 m

Surfaces
Non visible quality, Industrial visible quality, Domestic visible quality
Special surfaces on request

Weight
5,0 kN/m³ according to EN 1991-1-1:2002 for structural analysis

471 kg/m³ for determination of transport weight

Change in shape
in panel plane ~0,01% change in length per % change in timber moisture content

perpendicular to panel plane ~0,20% per % change in timber moisture content

Thermal conductivity
\( \lambda = 0.13 \text{ W/(m*K)} \) according to EN 12524

Specific heat capacity
\( c_p = 1600 \text{ J/(kg*K)} \) according to EN 12524

Water vapour diffusion resistance
\( \mu = 25 \) to 50 according to EN 12524

Airtightness
Panels with 3 layers in ISI- or WSI-Quality or Panels with 5 or more layers can be used as airtight layers; connections to other components or between the panels, break-throughs etc. must be sealed in the right way

Reaction to fire
Euroclass D-s2, d0

Resistance to fire
Charring rate 0.67mm/min at charring of the top layer only or charring rate 0.76mm/min at charring of more layers than the top layer