

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/m ³ according to EN 1991-1-1:2002 for structural analysis 471 kg/m ³ 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	$\lambda = 0.13 \text{ W/(m}^*\text{K)}$ according to EN 12524
Specific heat capacity	$c_p = 1600 \text{ J/(kg}^*\text{K)}$ 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