

Cross-Laminated Timber



The following certificates demonstrate the outstanding quality of our products:



Cross-laminated timber non-visual grade

Type of wood	spruce, fir addition of other types of wood permissible
Standard and strength	ETA-23/0498
Gluing	finger joints: melamine/urea resin surface: polyurethane adhesive narrow side: hot-melt adhesive
Dimensions	Width: 1250 mm Height: 60–280 mm Length: 2700–14000 mm
Surface and tolerance dimensions	all sides non-visual grade planed on 4 sides with chamfer ± 1 mm in width and height ± 3 mm length tolerance
Wood moisture	12 % ± 2 %

Features	Permissibility
Glued joint	open joint up to 4 mm permissible
Fracture in wood	not permissible
Rough areas	occasionally permissible
Discoloration, red stripes	permissible
Nail-proof brown stripes	permissible
Resin pockets	permissible
Bark inclusions	permissible
Chunking	occasionally permissible
Sound knots	permissible

Features	Permissibility
Loose knots	permissible
Tiny knots	permissible
Solid dead knots	permissible
Heartwood	permissible
Insect attack	individual small wormholes up to 2 mm permissible
Waney edge	occasionally permissible
Rot areas	not permissible
Checks	permissible
Packaging and storage	Packaged in PE film

Cross-laminated timber industrial visual grade

Type of wood	spruce, fir addition of other types of wood permissible industrial visible side only spruce, fir
Standard and strength	ETA-23/0498
Gluing	finger joints: melamine/urea resin surface: polyurethane adhesive narrow side: hot-melt adhesive/white glue
Dimensions	Width: 1250 mm Height: 60–280 mm Length: 2700–14000 mm
Surface and tolerance dimensions	one side industrial visual grade, other sides non-visual grade planed on 4 sides with chamfer industrial visual side sanded on request ± 1 mm in width and height ± 3 mm length tolerance
Wood moisture	12 % ± 2 %

Features	Permissibility
Glued joint	open joint up to 4 mm permissible
Fracture in wood	not permissible
Rough areas	occasionally permissible
Discoloration, red stripes	up to 10% of the surface permissible
Nail-proof brown stripes	permissible
Resin pockets	up to 10 x 90 mm permissible
Bark inclusions	occasionally permissible
Chunking	minor chunking permissible in small numbers
Sound knots	permissible

Features	Permissibility
Loose knots	permissible up to 30 mm
Tiny knots	permissible
Solid dead knots	permissible up to 30 mm
Heartwood	permissible
Insect attack	not permissible
Waney edge	occasionally permissible
Rot areas	not permissible
Checks	occasionally permissible
Packaging and storage	Packaged in PE film

Cross-laminated timber visual grade*

Type of wood	spruce, fir addition of other types of wood permissible visible side only spruce
Standard and strength	ETA-23/0498
Gluing	finger joints: melamine/urea resin surface: polyurethane adhesive narrow side: hot-melt adhesive/white glue
Dimensions	Width: 1250 mm Height: 60–280 mm Length: 2700–14000 mm
Surface and tolerance dimensions	one side visual grade, other sides non-visual grade planed on 4 sides with chamfer visual side sanded on request ± 1 mm in width and height ± 3 mm length tolerance
Wood moisture	12 % ± 2 %

* on request

Features	Permissibility
Glued joint	open joint up to 2 mm permissible
Fracture in wood	not permissible
Rough areas	not permissible
Discoloration, red stripes	slight discoloration of up to 5% of the surface permissible
Nail-proof brown stripes	not permissible
Resin pockets	up to 5 x 50 mm permissible
Bark inclusions	occasionally permissible
Chunking	minor chunking permissible in small numbers
Sound knots	permissible

Features	Permissibility
Loose knots	not permissible
Tiny knots	permissible
Solid dead knots	occasionally permissible
Heartwood	occasionally permissible
Insect attack	not permissible
Waney edge	not permissible
Rot areas	not permissible
Checks	occasionally permissible
Packaging and storage	Packaged in PE film

Mechanical properties

Strength class according to ETA-23/0498

	Properties for mechanical actions perpendicular to CLT		Properties for mechanical actions in plane of CLT	
Elasticity modulus	E//mean	12 000 N/mm ²	E//mean	3 layers: 10 000 N/mm ² 5 layers: 11 500 N/mm ² 7 layers: 12 000 N/mm ²
Shear modulus	G//mean G [⊥] mean	690 N/mm ² 50 N/mm ²	G//mean	460 N/mm ²
Bending strength	σ//0,05	1/k _{sys} * 26,4 N/mm ² (1)	σ//0,05	24 N/mm ²
Tensile strength	σ [⊥] 0,05	0,12 N/mm ²	σ [⊥] 0,05	14 N/mm ²
Compressive strength	σ _c [⊥] 0,05	2,5 N/mm ²	σ _c //0,05	21 N/mm ²
Shear strength	σ _v //0,05 σ _v [⊥] 0,05	4,0 N/mm ² 1,1 N/mm ²	σ _v //0,05	3,9 N/mm ²

(1) $k_{sys} = \max\left\{\frac{1,1-0,025*n}{1}\right\}$

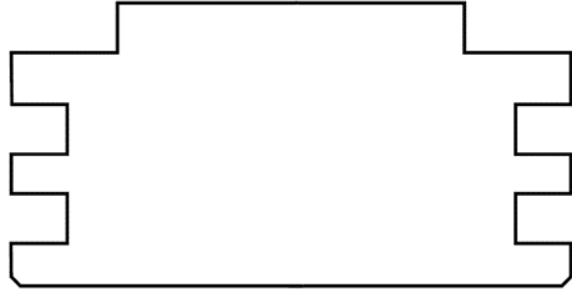
n ... number of boards within cover layer

You can find the European Technical Assessment Cross-Laminated Timber on our website www.mosser.at/en/current-certificates-and-declarations-of-performance

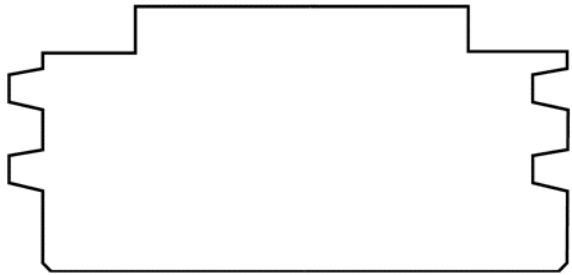
Product composition

Thickness [mm]	Layers							
	Number	S1	S2	S3	S4	S5	S6	S7
60	3	20	20	20				
80	3	20	40	20				
100	3	30	40	30				
120	3	40	40	40				
100	5	20	20	20	20	20		
120	5	20	30	20	30	20		
140	5	40	20	20	20	40		
160	5	40	20	40	20	40		
180	5	40	40	20	40	40		
200	5	40	40	40	40	40		
220	7	40	20	40	20	40	20	40
240	7	40	20	40	40	40	20	40
260	7	40	40	40	20	40	40	40
280	7	40	40	40	40	40	40	40

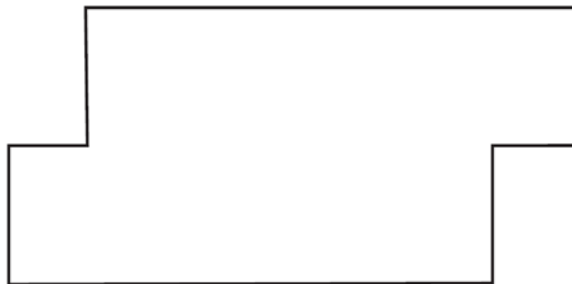
Cross-laminated timber groove profiles*



Double groove and rebate	
height	140-280 mm (in steps of 20 mm)
groove depth	20 mm
groove height	20 mm
rebate depth	50 mm
rebate height	20 mm



Double tongue and groove with rebate	
height	120-280 mm (in steps of 20 mm)
groove depth	15 mm
groove height	-
rebate depth	50 mm
rebate height	20 mm



Shiplap edge	
height	60-280 mm (in steps of 20 mm)
groove depth	-
groove height	-
rebate depth	50 mm
rebate height	50 % of the total height

*diagram
Other profiles on request.

Joinery

Machine Equipment	Hundegger K2-Industry	
Labeling	Individual label	
Optional Component Inscription	Project name	Ink jet and marking system
	Component number	
	Markings	
File Format	.BVX, .BVN	

Imprint

Mosser Leimholz Gesellschaft m. b. H.

Company headquarters & postal address:

Fohlenhof 2

A-3263 Randegg

+43 7487 62 71-0

office@mosser.at

Register court: District Court of St. Pölten

Commercial register number: FN93662p

Sales tax ID number: ATU20146606

Chamber affiliation: Member of the Austrian Wood Industries Association

Legal notice:

The information on the Internet regarding the Mosser Group is continuously checked and updated. Nevertheless, incorrect information may be included unintentionally. Therefore, liability or a guarantee for the topicality, correctness and completeness of the information provided cannot be assumed. All decisions which are based on the information contained on the Internet concerning the Mosser Group are solely the responsibility of the user. The Mosser Group does not accept any liability for direct, concrete or any other damage which arises as a result of this information. The content and structure of the Mosser website are copyrighted. Duplication of information or data, particularly the use of text, sections of text or images, requires permission from the Mosser Group.

Form number: QM_QB_0009

Version number: .04

Description: Produktdatenblatt BSP_ENG

Creator: Daniela Heigl

Approver: Martin Bruderhofer

Release date: 01.03.2023