



AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report(s). This authorization also applies to the Multiple Listee model(s) identified on the correlation page of the Listing Report.

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Applicant: KLH Massivholz GmbH
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Party Authorized to Apply Mark: See following page(s)

Evaluation Center: Intertek (Middleton)

Client Number: 277568

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 Jean-Philippe Kayl, Director of Certification

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This document supersedes all previous Authorizations to Mark for the noted Report Number.

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Testing Standard(s):	ANSI/APA PRG 320 (2012) Ed. 2017, ANSI/APA PRG 320:2018
Product:	KLH Massivholz GmbH – Massivholzplatten (solid wood slabs) CLT

ATM for Report: G102232156, G103136174, G103855227,
 G104162725

ATM Issue Date: 11/27/2019

Listing Section(s): BUILDING PANELS

CSI Code(s): 06 17 00 Shop-Fabricated Structural Wood

Description:

KLH-Massivholzplatten (solid wood slabs) cross laminated timber (CLT) is a wood structural building element for walls, floors (ceilings) and roofs. The CLT panel consists of 3 to 8 layers of Austrian Spruce lumber boards stacked crosswise (layers at 90°) and glued on their wide faces. The CLT panel is offered in a maximum length of 54 ft 1-5/8 in. (16.5 m); widths of 7 ft 10-½ in. (2.40m), 8 ft 2-7/16 in. (2.50m), 8 ft 11-½ in. (2.73m) and 9 ft 8-5/32 in. (2.95 m); maximum thickness of 1 ft 17/32 in. (0.32 m).

MATERIAL RATINGS

Test Standard	Test Type	Rating
ANSI/APA PRG 320	Performance Rated CLT	CV3 – Custom Layup Combinations

For Use in the U.S.

Grade	Major Strength Direction (psi)						Minor Strength Direction (psi)					
	F _{b,0}	E ₀ (10 ⁶)	F _{t,0}	F _{c,0}	F _{v,0}	F _{s,0}	F _{b,90}	E ₉₀ (10 ⁶)	F _{t,90}	F _{c,90}	F _{v,90}	F _{s,90}
CV3M1	975	1.6	550	1,450	175	55	975	1.6	550	1,450	175	55

Tabulated values are allowable design values and not permitted to be increased for the lumber size adjustment factor in accordance with the NDS. The design values shall be used in conjunction with the section properties provided by KLH based on the actual layup used in manufacturing the CLT panel.

For Use in Canada

Grade	Major Strength Direction (MPa)						Minor Strength Direction (MPa)					
	F _{b,0}	E ₀	F _{t,0}	F _{c,0}	F _{v,0}	F _{s,0}	F _{b,90}	E ₉₀	F _{t,90}	F _{c,90}	F _{v,90}	F _{s,90}
CV3M1	10.8	11,000	5.5	15.0	1.8	0.60	10.8	11,000	5.5	15.0	1.8	0.60

Tabulated values are Limit States design values and not permitted to be increased for the lumber size adjustment factor in accordance with the CSA O86. The design values shall be used in conjunction with the section properties provided by KLH based on the actual layup used in manufacturing the CLT panel.

Party(s) Authorized by Manufacturer To Apply Mark:

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Party(s) Authorized by Other Parties To Apply Mark:

None