



Declaration of Performance
No. DOP_MMKG_201

1. Unique identifier code of the product type: **Cross laminated timber (MM crosslam)**
2. Purpose: In buildings and bridges
3. Manufacturer: **Mayr-Melnhof Holz Gaishorn GmbH
8783 Gaishorn am See 182, Austria**
4. Authorised representative: **No external authorised representative**
5. System for assessment and verification of the constancy of performance: **System 1**
- 6.b) European Technical Assessment: **ETA-09/0036 of 02.09.2020**
Notified body: **NB 1359 (Holzforschung Austria)**
7. Declared performance:

Essential characteristics	Performance
Mechanical properties as:	
Modulus of elasticity Bending strength Compression strength Tensile strength Shear strength	Surface Lamellas: C16 / T11 - C35 / T21 Middle Lamellas: max. 30% C16 / T11 Characteristic properties according to ETA-09-0036, annex 4
Geometrical data	Thickness from 36 - 350 mm Widths ≤ 4.000 mm Length ≤ 18.000 mm
Bonding strength as	
Strength of finger joints Glue line integrity of surface bonding	According to requirements EN 14080, table 2 and table 3 Delamination test according EN 14080, annex C, method B
Durability of bonding strength as	
Wood species Adhesive	Spruce (<i>Picea abies</i>), Fir (<i>Abies alba</i>), Larch (<i>Larix decidua</i>), Pine (<i>Pinus sylvestris</i>) Adhesive for finger joints: PUR, EN 15425 I 90 GP 0,3 w Adhesive for surface bonding: MUF, EN 301 I 90 GP 0,3 s PUR, EN 15425 I 90 GP 0,3 w
Durability against biological attack as	
Durability against timber-destroying fungi according to EN 350	5
Resistance to fire as	
Geometrical data	see „Geometric data“ and ETA-09/0036 annex 1



Charring rate as - Characteristic density - Wood species	$\geq 380 \text{ kg/m}^3$ Spruce (Picea abies), Fir (Abies alba), Larch (Larix decidua), Pine (Pinus sylvestris)	
<u>Charring rate for MUF</u> - Charring of the cover layer - Charring of more layers than the cover layer	<u>Floor / Roof</u>	<u>Wall</u>
	0,65 mm/min	0,60 mm/min
	0,76 mm/min *)	0,71 mm/min
<u>Charring rate for PUR</u> - Charring of the cover layer - Charring of more layers than the cover layer	<u>Floor / Roof</u>	<u>Wall</u>
	0,65 mm/min	0,63 mm/min
	1,30 mm/min *)	0,86 mm/min
*) until 25 mm of charring. Afterwards the charring rate 0.65 mm/min applies up to the next glue line.		
Reaction to fire as		
Reaction to fire class	D-s2, d0	
Emission of formaldehyde as		
Formaldehyde emission class	E1	
Release of other dangerous substances		
Release of other dangerous substances	Not relevant	

The performance of the above product fulfils the declared performance. The above-mentioned manufacturer has the sole responsibility for the preparation of the declaration of performance in accordance with the regulation (EU) No. 305/2011.

Signed for and on behalf of the manufacturer by:

Manfred Glaser
General Manager

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Gaishorn, 2022.11.21

Bernhard Waldner
General Manager

.....
Gaishorn, 2022.11.21

WHERE
IDEAS
CAN
GROW.



NB 1359

Mayr-Melnhof Holz Gaishorn GmbH
8783 Gaishorn am See 182 – Austria

DOP_MMKG_201

15

1359 – CPR - 0641

Cross laminated timber (MM crosslam)

according to **ETA-09/0036**

EAD 130005-00-0304

Mechanical properties and resistance to fire as

– Geometrical data (mm)	according to accompanying documents
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– Strength class and characteristic density	according to ETA-09/0036
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– Wood species	Spruce (<i>Picea abies</i>) Fir (<i>Abies alba</i>) Larch (<i>Larix decidua</i>) Pine (<i>Pinus sylvestris</i>)
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Bonding strength as

– Strength of the Finger joints	EN 14080
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– Strength of the Adhesive joints	EN 14080, annex C, method B
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Reaction to fire	D-s2, d0
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Emission of formaldehyde	E1
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Durability of bonding strength as

– Adhesive for finger joints	PUR, EN 15425 I 90 GP 0,3 w
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– Adhesive for face bonding between laminations	MUF, EN 301 I 90 GP 0,3 s PUR, EN 15425 I 90 GP 0,3 w
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Durability of additional characteristics as

– Durability against timber destroying fungi	EN 350: DC 5
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