



Declaration of Performance
No. DOP_MMHG_201

1. Unique identifier code of the product type: **Cross laminated timber (MM crosslam)**
2. Intended use: In buildings and bridges
3. Manufacturer: **Mayr-Melnhof Holz Gaishorn GmbH**
Gaishorn 182, 8783 Gaishorn am See, 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 21.04.2023**
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 - 360 mm Widths ≤ 4.000 mm Length ≤ 18.000 mm
Bonding strength as	
Strength of finger joints	According to requirements EN 14080, table 2 and table 3
Glue line integrity of surface bonding	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	≥380 kg/m ³ Spruce (<i>Picea abies</i>), Fir (<i>Abies alba</i>), Larch (<i>Larix decidua</i>), Pine (<i>Pinus sylvestris</i>)						
<u>Charring rate for MUF</u> - Charring of the cover layer - Charring of more layers than the cover layer	<table border="1"> <thead> <tr> <th>Floor / Roof</th> <th>Wall</th> </tr> </thead> <tbody> <tr> <td>0,65 mm/min</td> <td>0,60 mm/min</td> </tr> <tr> <td>0,76 mm/min *)</td> <td>0,71 mm/min</td> </tr> </tbody> </table>	Floor / Roof	Wall	0,65 mm/min	0,60 mm/min	0,76 mm/min *)	0,71 mm/min
Floor / Roof	Wall						
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	<table border="1"> <thead> <tr> <th>Floor / Roof</th> <th>Wall</th> </tr> </thead> <tbody> <tr> <td>0,65 mm/min</td> <td>0,63 mm/min</td> </tr> <tr> <td>1,30 mm/min *)</td> <td>0,86 mm/min</td> </tr> </tbody> </table> <p>*) until 25 mm of charring. Afterwards the charring rate 0.65 mm/min applies up to the next glue line.</p>	Floor / Roof	Wall	0,65 mm/min	0,63 mm/min	1,30 mm/min *)	0,86 mm/min
Floor / Roof	Wall						
0,65 mm/min	0,63 mm/min						
1,30 mm/min *)	0,86 mm/min						
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:

Markus Thier
Operation Manager

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Gaishorn, 2023.05.10

Bernhard Waldner
General Manager

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Gaishorn, 2023.05.10

CE

NB 1359

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

DOP_MMHG_201

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

Bonding strength as

– Strength of the Finger joints	EN 14080
– Strength of the Adhesive joints	EN 14080, annex C, method B

Reaction to fire D-s2, d0

Emission of formaldehyde E1

Durability of bonding strength as

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

Durability of additional characteristics as

– Durability against timber destroying fungi	EN 350: DC 5
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