

Declaration of Performance

No.: DOP_HHS_BSH

1. Unique product type identification code:

Glued laminated timber HHS

2. Intended use of the building product according to harmonized technical specification:

Buildings and Bridges

3. Name, registered trade name or brand, along with the address of the producer according to Article 11 Paragraph 5 construction products regulation:

HASSLACHER Holzbausysteme GmbH

Feistritz 1

9751 Sachsenburg

Austria

4. Name and address of the authorized agent for the tasks referred to in Article 12 Paragraph 2 construction products regulation:

No authorized agent

5. System of assessment and verification of performance constancy pursuant to Appendix V of the construction products regulation:

System 1

6. If the building product is regulated by a harmonized standard:

EN 14080:2013

7. Notified Body(ies):

No. 1359

8. If the building product is regulated by an European technical assessment:

Not applicable

9. Declaration of performance:

Main Features and Characteristics		Performance
Mechanical characteristics of glued laminated products	Characteristics of timber	NPD
	Bending strength	Classification based on the characteristics of laminations according EN 338 – assignment of strength class corresponding Table 4 or 5 EN 14080
	Compression strength	Spruce/Fir: GL20h, GL24h, GL24c, GL28h, GL28c, GL30h, GL30c, GL32h, GL32c, GL36hHHS
	Tensile strength	($f_{m,g,k} = 36 \text{ N/mm}^2$; $f_{t,0,g,k} = 28,8 \text{ N/mm}^2$; $f_{t,90,g,k} = 0,5 \text{ N/mm}^2$; $f_{c,0,g,k} = 36 \text{ N/mm}^2$; $f_{c,90,g,k} = 2,5 \text{ N/mm}^2$; $f_{v,g,k} = 3,5 \text{ N/mm}^2$; $f_{r,g,k} = 1,2 \text{ N/mm}^2$; $E_{0,g,mean} = 15750 \text{ N/mm}^2$; $E_{0,g,05} = 13100 \text{ N/mm}^2$; $E_{90,g,mean} = 300 \text{ N/mm}^2$; $E_{90,g,05} = 250 \text{ N/mm}^2$; $G_{g,mean} = 650 \text{ N/mm}^2$; $G_{g,05} = 540 \text{ N/mm}^2$; $G_{r,g,mean} = 65 \text{ N/mm}^2$; $G_{r,g,05} = 54 \text{ N/mm}^2$; $\rho_{g,k} = 460 \text{ kg/m}^3$; $\rho_{g,mean} = 520 \text{ kg/m}^3$),
	Shear strength	
	Modulus of elasticity	GL36cHHS ($f_{m,g,k} = 36 \text{ N/mm}^2$; $f_{t,0,g,k} = 25,3 \text{ N/mm}^2$; $f_{t,90,g,k} = 0,5 \text{ N/mm}^2$; $f_{c,0,g,k} = 31,7 \text{ N/mm}^2$; $f_{c,90,g,k} = 2,5 \text{ N/mm}^2$; $f_{v,g,k} = 3,5 \text{ N/mm}^2$; $f_{r,g,k} = 1,2 \text{ N/mm}^2$; $E_{0,g,mean} = 15300 \text{ N/mm}^2$; $E_{0,g,05} = 12750 \text{ N/mm}^2$; $E_{90,g,mean} = 300 \text{ N/mm}^2$; $E_{90,g,05} = 250 \text{ N/mm}^2$; $G_{g,mean} = 650 \text{ N/mm}^2$; $G_{g,05} = 540 \text{ N/mm}^2$; $G_{r,g,mean} = 65 \text{ N/mm}^2$; $G_{r,g,05} = 54 \text{ N/mm}^2$; $\rho_{g,k} = 440 \text{ kg/m}^3$; $\rho_{g,mean} = 480 \text{ kg/m}^3$)
	Bonding strength	
	Strength of finger joints	Pine, Larch: GL24h, GL24c, GL28h, GL28c
	Additional for glued laminatd timber with large finger joints: Bending strength of large finger joints	NPD
	Geometrical data	NPD
Resistance to fire		NPD
Bonding strength	Glue line integrity of surface bonding	Delamination test according EN 14080, Annex C, Test method B
	Glue lines between components of glued laminated timber	NPD
	Large finger joints	NPD

Reaction to fire		D-s2, d0
Emission of formaldehyde		E1
Release of other dangerous substances		NPD
Durability of bonding strength	Species	Spruce/Fir, Pine, Larch
	Adhesives	MUF / Type I according EN 301 I 90 FJ 0,1 S I 90 GP 0,3 S
Durability against biological attack	Lamination without preservative treatment	Durability class 5 according EN 350-2
	Lamination with preservative treatment	NPD

NPD – No Performance Determined

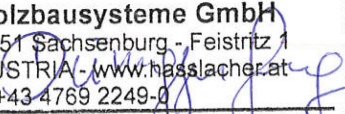

10. The performance of the previous product corresponds with the declared performance/the declared performances. For the creation of this performance in accordance with the EU regulation No. 305/2011 the manufacturer is uniquely responsible for.

Signed in the name of the manufacturer:

Georg Dürregger / managing director HASSLACHER Holzbausysteme GmbH

Name and position

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 Ein Unternehmen der HASSLACHER NORICA TIMBER Gruppe
 A company of the HASSLACHER NORICA TIMBER Group

Sachsenburg, 31st March 2022

Place and date of issue

Stamp/signature