

Declaration of Performance

Nr. DOP-WH-3031 WIEHAG 0636

Rev. 02

WIEHAG

TIMBER CONSTRUCTION

1. Unique identifier code of the product type: **Glulam with large finger joints acc. EN 14080:2013**
Glulam: GL 24 h
Glulam: GL 28 c
2. Identification of the construction product according to article 11 section 4 BauPOV after types, batches, serial numbers or any other indicator: **The batches or press part number can be gathered from the component marking**
3. Purpose: **Buildings and Bridges**
4. Manufacturer: **Fa. Wiehag Timber Construction GmbH**
Wiehag Straße 10
4950 Altheim
Austria
5. Authorized representative: **No authorized representative**
6. System for assessment and verification of the constancy of performance: **System 1**
- 7.a) Harmonized Standard: **EN 14080:2013**
- 7.b) Notified body: **Nr. 1359 HOLZFORSCHUNG AUSTRIA**
8. Declared performance:

Essential characteristics	Performance
Mechanical properties covering the following: Modulus of elasticity, bending strength, compressive strength, tensile strength and shear strength as:	
Properties of timber and Strength of finger joints	PCAB - spruce/ ABAL - fir: (Picea abies / Abies alba) Glulam: GL 24 h Glulam: GL 28 c LADC - larch (Larix decidua) Glulam: GL 24 h
Bending strength of universal finger joints	PCAB - spruce/ ABAL - fir: (Picea abies / Abies alba) Glulam: GL 24 h => $f_m, l_f, k = 19,4 \text{ Mpa}$ Glulam: GL 28 c => $f_m, l_f, k = 18,5 \text{ Mpa}$ LADC - larch (Larix decidua) Glulam: GL 24 h => $f_m, l_f, k = 23,0 \text{ Mpa}$
Service class for universal finger joints	SC 1, SC 2
Geometric data	Width from 40 mm till 260 mm (block glued till 400 mm) Height from 80 mm till 3.200 mm and length till 51 m The measurements will be displayed on the accompanying documents.
Bonding strength	
Strength of finger joints and Bonding strength of bonds between laminates	For all product types: See mechanical properties, strength of finger joints Delamination test according to EN 14080, Annex C, Method B

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Durability of bonding strength	
Wood species	PCAB - spruce/ ABAL - fir: (Picea abies / Abies alba) Glulam: GL 24 h Glulam: GL 28 c LADC - larch (Larix decidua) Glulam: GL 24 h
Adhesive	For all product types: Adhesive for finger joints: MUF TYP I acc. to EN 301 I 90 FJ 0,1S Adhesive for surfacebonding: MUF TYP I acc. to EN 301 I 90 GP 0,3S Adhesive for universal finger joints: MUF TYP I acc. to EN 301 I 90 GF 1.5M
Durability of other characteristics (i.e. resistance against biological attack)	
Laminations without preservative treatment	Durability against timber-destroying fungi according to EN 350-2 for all product types
Reaction to fire as	
Reaction to fire class	For all product types: D-s2, d0 according to delegated regulation (EU)2017/1227 of the commission from 20.03.2017
Resistance to fire as	
Strength class and geometric data	characteristic density of the particular strength class and wood type PCAB – spruce / ABAL - fir: (Picea abies / Abies alba) Glulam: GL 24 h Glulam: GL 28 c LADC - larch (Larix decidua) Glulam: GL 24 h
Emission of formaldehyde	
Formaldehyde emission class	For all product types: E1
Release of other dangerous substances	
Release of other dangerous substances	For all product types: no performance determined (NPD)

The performance of the above product fulfills the declared performance. The abovementioned 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:

Altheim on 11.14.2023



Dr. Erich Wiesner, Management CEO