



# CERTIFICATE OF CONSTANCY OF PERFORMANCE

## 2204-CPR-0655

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction products

### **TIMBER STRUCTURES. GLUED LAMINATED TIMBER WITHOUT PRESERVATIVE TREATMENT.**

**Strength class of glued laminated timber: GL 24h,**

*\* Performances of the product are detailed in the Annex of this certificate of constancy of performance.*

**Intended use: glued laminated timber structure for buildings and bridges,**

**Placed on the market and produced by SC SILVANIA SORTILEMN SRL,**

**Head office and Manufacturing plant:**

**LUNCA ILVEI Commune, LUNCA ILVEI village, Fabricii street, no. 1, BISTRIȚA-NĂȘĂUD county**

**Phone: 0760 233 153, fax: 0263 337 781.**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

**EN 14080:2013**

under system 1 for the performances set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction products.

This certificate was first issued on **9<sup>th</sup> October 2020** and will remain valid until **8<sup>th</sup> 10 October 2023**, as long as neither the harmonised standard, the construction products, the AVCP methods nor the manufacturing conditions in the plant are significantly modified, unless suspended or withdrawn by the notified product certification body.

**President,  
Emeritus Prof. Polidor BRATU, Ph.D**



*\* This certificate is valid only together with annex.*

**9<sup>th</sup> October 2020**



**TIMBER STRUCTURES.**  
**GLUED LAMINATED TIMBER - WITHOUT PRESERVATIVE TREATMENT:**  
**Strength class: GL 24h;**  
**Wood species (essence): Spruce (*Picea abies*)**

Characteristics, according to EN 14080:2013/ Measure unit	Standard test	Performances
Moisture, %	EN 408+A1	9÷15
Density, kg/m <sup>3</sup>	EN 408+A1	>420
<b>Bonding strength</b>		
Bending strength parallel to the grain of finger joints, T 24 class, N/mm <sup>2</sup>	EN 408+A1	>30
<b>Mechanical strengths of glued laminated timber</b>		
Bending strength parallel to the grain , N/mm <sup>2</sup>	EN 408+A1	>24
Global modulus of bending elasticity , N/mm <sup>2</sup>	EN 408+A1	>11500
Tensile strength perpendicular to the grain, N/mm <sup>2</sup>	EN 408+A1	>0,5
Compression strength perpendicular to the grain , N/mm <sup>2</sup>	EN 408+A1	>2,5
Shear strength parallel to the grain, N/mm <sup>2</sup>	EN 408+A1	>3,5
<b>Durability of bonding strength</b>		
Wood species (essence)	EN 14080, point 5.5.2.	Spruce ( <i>Picea abies</i> )
Adhesives for : - finger joints in laminations - glue lines between laminations	EN 301	Adhesive: Type PUR I - A Type PUR I – A
<b>Natural durability</b> Resistance to biological attack	EN 350	Durability class: 4,SH,SH,S,3-4,3v
Reaction to fire	EN 14080 Table 11	D-s2,d0
Release of dangerous substances: Formaldehyde class, mgHCHO/m <sup>3</sup> air	EN 717-1	Class E1 ≤ 0,124

9<sup>th</sup> October 2020

**Annex is only valid together with the certificate of constancy of performance no. 2204-CPR-0655.**