## Declaration of Performance – LENO Cross Laminated Timber

## Nr. DOP-ZT-CLT-eng-001

Number description: declaration of performance-ZÜBLIN Timber Aichach GmbH-cross laminated timber-English-consecutive number

1. Unique identification code of the product-type:

   **LENO cross laminated timber related to ETA-10/0241**

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):

   **The production date can be seen by the component plan.**

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by manufacturer:

   **The solid wood slab is intended to be used as a load-bearing, bracing or non structural element in buildings and timber structures.**

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article11(5):

   **ZÜBLIN Timber Aichach GmbH**
   **Industriestraße 2**
   **86551 Aichach**
   **Deutschland**

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

   **No authorised representatives**

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

   **System 1**

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

   **Not applicable**

8. In case of the declaration of performance concerning a European Technical Approval:

   **Notified product certification body MPA Stuttgart – Otto-Graf-Institut (FMPA) – 0672 – performed the initial test as well as the initial inspection of the manufacturing plant and of the factory production control and the continuous surveillance, assessment and evaluation of factory production control. The issued EG-Konformitätszertifikat 0672-CPD-I 14.5.5 certified the compliance to the appointments of the European Technical Approval ETA-10/0241.**

9. Declared performance:

| Essential characteristics | Performance | Harmonised technical specification |
|---|---|---|
| **Mechanical resistance** | For the calculation the characteristic strength and stiffness values of softwood according to EN 338 shall be used taking into consideration the definitions in ETA-10/0241, annex. In addition the following values apply: | ETA-10/0241 |

**ZÜBLIN Timber Aichach GmbH**
Industriestr. 2
86551 Aichach/Deutschland
www.zueblin-timber.com

Tel. +49 8251 908-0
Fax +49 8251 908-999
timber@zueblin.de

UniCredit Bank AG - HypoVereinsbank
IBAN: DE49720212710003170195
BIC/SWIFT: HYVEDEMM236

Sitz: Aichach, Amtsgericht Augsburg, HRB 28092, UID Nr.: DE 811 264 874
Geschäftsführung: Dipl.-Ökonom Michael Albrecht, Dipl.-Ing. (FH) Christoph Zimmermann

| | | | |
|---|---|---|---|
| Characteristic | | Thickness of element | |
| | | ≤115 mm | >115 mm |
| Rolling shear strength (5% - fractile) | $f_{R,k}$ | 0,85 [N/mm²] | 0,70 [N/mm²] |
| Rolling shear modulus (mean value) | $G_{R,mean}$ | 50 [N/mm²] | 50 [N/mm²] |

For layers of one layered solid wood panels, which do not include notches, as characteristic roll shear strength $f_{R,k}$ = 1,25 [N/mm²] can be used.
If elements are connected by universal finger joints according to EN 387, the characteristic values for bending, tension- and compression shall be reduced by 40% in field of the universal finger joint.
For the characteristic values of solid wood panels and structural laminated veneer lumber the rules of the associated European standard of European technical approval apply. For Fineline layers the characteristic values for softwood lamellas of the strength class C35 apply. National regulations might have to be followed.

| | |
|---|---|
| **Behaviour in case of fire** | Charring rate 0,7 mm/min EN 1995-1-2<br>Reaction to fire<br>Solid wood panels except for floorings D-s2, d0, EN 13501-1<br>Floorings D-FL-s1 |
| **Hygiene, health and the environment** | Release of formaldehyde E 1, EN 13986, includes cross section combined with LVL layers, for combination with solid wood panels no performance determined (NPD).<br>Vapour permeability μ = 20 to 50, EN 12524<br>The relevant layer combination the supporting documents apply. |
| **Safety in use** | No performance determined (NPD) |
| **Protection against noise** | No performance determined (NPD) |
| **Energy, economy and heat retention** | Thermal conductivity λ = 0,13 [W/(m²·K)], EN 12524<br>Thermal inertia $c_p$ = 1600 [J/(kg·K)], EN 12524 |
| **Durability** | Use only in service classes 1 und 2, EN 1995-1-1<br>Durability class 5, EN 350-2<br>The relevant type of wood the supporting documents apply. |

10. The performance of the product identified in points 1 and 2 is conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Christoph Zimmermann / managing director ZÜBLIN Timber Aichach GmbH
(name and function)

Aichach, 27.04.2017
(place and date of issue)

(signature)

**ZÜBLIN Timber Aichach GmbH**
Industriestr. 2
86551 Aichach/Deutschland
www.zueblin-timber.com

Tel. +49 8251 908-0
Fax +49 8251 908-999
timber@zueblin.de

UniCredit Bank AG - HypoVereinsbank
IBAN: DE49720212710003170195
BIC/SWIFT: HYVEDEMM236

Sitz: Aichach, Amtsgericht Augsburg, HRB 28092, UID Nr.: DE 811 264 874
Geschäftsführung: Dipl.-Ökonom Michael Albrecht, Dipl.-Ing. (FH) Christoph Zimmermann