LLC «Sokol CLT»

# Declaration of Performance

DOP-2020-1 EN

1. Unambiguous identification of the product type:

   **CLT – Cross Laminated Timber**

2. Intended use of the construction product:

   **Solid wood slab element to be used as structural elements in buildings**

3. Name and address of the manufacturer:

   **Limited Liability Company «Sokol CLT»**

   **Lugovaya street, house 1 city Sokol, Vologda region, 162130 Russia**

4. System for assessing and examining the constancy of performance:

   **System 1**

5. Harmonized standard:

   **Not relevant**

6. For **panel marking** see Annex

7. Declared Performance:

| Essential characteristics | Performance |
|---|---|
| **Number of layers** | $3 \leq n \leq 9$<br>Adjacent layers of the softwood boards are arranged perpendicular (angle of 90°) |
| **Geometrical data** | Maximum. product dimensions (length × width): 16000 × 3500 mm |
| **Thickness** | 60…400 mm, for additional information see Annex table 1 |
| **Tolerances** | See Annex table 2 |
| **Surface** | Visual quality, Industrial quality |
| **Wood species** | Norway spruce (Picea Abies) |
| **Moisture of wood** | 12% +/-2% |
| **Strength class** | C24 / T14 according to EN 338 |
| **Bonding strength** | Glue type I according to EN 15425 (PUR) |
| **Service classes** | Service class 1 and 2 according to Eurocode 5 |
| **Durability** | According to EN 350-2 |
| **Reaction to fire** | D-s2, d0 according to EN 14080; $D_{FL}$-s1 (as floor covering) |
| **Resistance to fire** | From REI 30 to REI 240 depending on the panel build-up and potential fire resistant claddings respectively |
| **Emission of hazardous substances** | Formaldehyde emission class E1 according to EN 14080; use of Formaldehyde-free PUR adhesive |

8. The performance of the product specified above corresponds to the declared performance. The abovementioned manufacturer has the sole responsibility for the preparation of the declaration of performance.

Signed for and on behalf of the manufacturer by:

Konstantin Pastukhov, Executive Director

Sokol 29.12.2020

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**Annex**

**Panel marking**

1. By the direction of the outer layer:

   T - panel with outer boards in the direction of length;

   X - panel with outer boards in the width direction.

2. By the number of layers and the pairing of layers. Layer thicknesses for each standard size are indicated in Appendix D:

   3 - three-layer panel;

   5 - five-layer panel;

   5P2 - five-layer panel with double unidirectional outer layers;

   7 - seven-layer panel;

   7P2 - seven-layer panel with double unidirectional outer layers;

   8P2 - eight-layer panel with dual unidirectional outer and central layers.

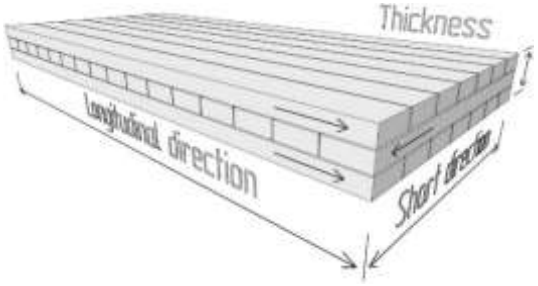
3. By the quality of external surfaces. The face is assigned by the project:

   Quality is always indicated by two letters denoting the quality of the front and back sides (see examples).

   E - visual quality

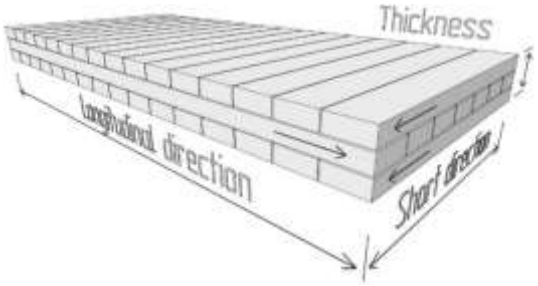
   C - industrial quality

T – panel,
the arrangement of the outer layers on the long side




X – panel,

the arrangement of the outer layers on the short side




For example:

**T7P2×220-CE** - panel with outer layers in the long direction, seven-layer with double unidirectional outer layers, 220 mm thick (lamellas: 40, 40, 20, 20, 20, 40, 40 mm), surface quality from the front side of the industrial, on the reverse of visual, wood strength class C24.

**X5×120-CC** - a panel with outer boards in the short direction, five-layer 120 mm thick (lamellas: 20, 30, 20, 30, 20 mm), industrial quality of external surfaces on both sides, wood strength class of the inner layer is C24.

**T3×100-EC** - panel with outer boards in the long direction, three-layer, 100 mm thick (lamellas: 40, 20, 40 mm), surface quality on the front side of visual, on the reverse of industrial, wood strength class C24

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Table 1. Types of panels

| Layer thickness, mm. | Number of layers | Panel thickness, mm | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 60 | 3 | | | 20 | 20 | 20 | | |
| 80 | 3 | | | 20 | 40 | 20 | | |
| 90 | 3 | | | 30 | 30 | 30 | | |
| 100 | 3 | | | 40 | 20 | 40 | | |
| 120 | 3 | | | 40 | 40 | 40 | | |
| 100 | 5 | | 20 | 20 | 20 | 20 | 20 | |
| 120 | 5 | | 20 | 30 | 20 | 30 | 20 | |
| 140 | 5 | | 40 | 20 | 20 | 20 | 40 | |
| 160 | 5 | | 40 | 20 | 40 | 20 | 40 | |
| 160 | 5P2 | | 30+30 | | 40 | 30+30 | | |
| 180 | 5 | | 40 | 30 | 40 | 30 | 40 | |
| 200 | 5 | | 40 | 40 | 40 | 40 | 40 | |
| 180 | 7 | 20 | 40 | 20 | 20 | 20 | 40 | 20 |
| 200 | 7 | 20 | 40 | 20 | 40 | 20 | 40 | 20 |
| 220 | 7 | 40 | 20 | 40 | 20 | 40 | 20 | 40 |
| 220 | 7P2 | 40+40 | | 20 | 20 | 20 | 40+40 | |
| 240 | 7 | 40 | 40 | 20 | 40 | 20 | 40 | 40 |
| 240 | 7P2 | 40+40 | | 20 | 40 | 20 | 40+40 | |
| 260 | 7 | 40 | 40 | 40 | 20 | 40 | 40 | 40 |
| 260 | 7P2 | 40+40 | | 40 | 20 | 40 | 40+40 | |
| 280 | 7 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 280 | 7P2 | 40+40 | | 40 | 40 | 40 | 40+40 | |
| 300 | 8P2 | 40+40 | | 30 | 40+40 | 30 | 40+40 | |
| 320 | 8P2 | 40+40 | | 30 | 40+40 | 30 | 40+40 | |

It is allowed to manufacture panels not included in the table with a thickness of 60 mm up to 400 mm by prior agreement.

Table 2. Dimension tolerances

| | |
|---|---|
| Tolerances in long direction (in length), mm | -0 / +10 |
| Tolerances in short direction (in width), mm | +/- 4 |
| Tolerances in thickness, mm | +/- 1 |