

## DECLARATION OF PERFORMANCE No WKLC/21

- |  |   |
|--|---|
| 1. Unique identification code of the product-type: | <b>WKLC</b>   |
| 2. Intended use/es:                                | <b>Screws for use in timber constructions</b>   |
| 3. Manufacturer:                                   | <b>Klimas Sp. z o.o.<br/>ul. Wincentego Witosa 135/137<br/>Kućnica Kiedrzyńska 42-233 Mykanów</b> |
| 4. Authorised representative:                      | <b>not applicable</b>   |
| 5. System/s of AVCP:                               | <b>system 3</b>   |
| 6. European Assessment Document:                   | <b>EAD 130118-00-0603 10/2016</b>   |
| European Technical Assessment:                     | <b>ETA-18/0817 17/01/2019</b>   |
| Technical Assessment Body:                         | <b>DEUTSCHES INSTITUT FÜR BAUTECHNIK</b>  |
| Notified body/ies:                                 | <b>0769</b>   |
| 7. Declared performance/s:                         |   |

| Essential characteristic                   | Performance   |                      |     |  |  |  |  |
|--|---------------|----------------------|-----|--|--|--|--|
| Dimensions                                 | $\varnothing$ | [mm]                 | 5   |  |  |  |  |
| Characteristic yield moment                | $M_{y,k}$     | [Nm]                 | 7   |  |  |  |  |
| Bending angle                              | max.          | [°]                  | 34  |  |  |  |  |
| Characteristic withdrawal parameter        | $f_{ax,k}$    | [N/mm <sup>2</sup> ] | 13  |  |  |  |  |
| Characteristic head pull-through parameter | $f_{head,k}$  | [N/mm <sup>2</sup> ] | 9,4 |  |  |  |  |
| Characteristic tensile strength            | $f_{tens,k}$  | [kN]                 | 10  |  |  |  |  |
| Characteristic yield strength              | $f_{y,k}$     | [N/mm <sup>2</sup> ] | NPD |  |  |  |  |
| Characteristic torsional strength          | $f_{tor,k}$   | [Nm]                 | 7   |  |  |  |  |
| Insertion moment                           | $R_{tor.k}$   | [Nm]                 | ok  |  |  |  |  |

| Spacing, end and edge distances of the screws and minimum thickness of the wood based material |                |                  |                  |                |                  |                  |                   |
|--|----------------|------------------|------------------|----------------|------------------|------------------|-------------------|
| Min. distance and thickness [mm]   | a <sub>1</sub> | a <sub>3,t</sub> | a <sub>3,c</sub> | a <sub>2</sub> | a <sub>4,t</sub> | a <sub>4,c</sub> | T <sub>min.</sub> |
| Plane surface (for Ø5)   | 20             | 30               | 30               | 12,5           | 30               | 12,5             | 20                |
| Edge surface (for Ø5)  | 50             | 60               | 35               | 20             | 30               | 15               |                   |

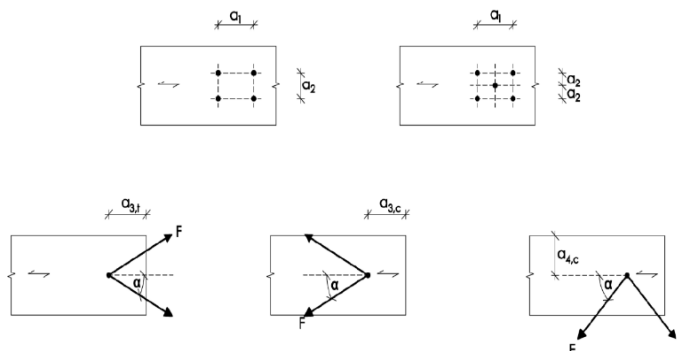


Figure A.2.1 Definition of spacing, end and edge distances in the plane surface of the cross laminated timber:

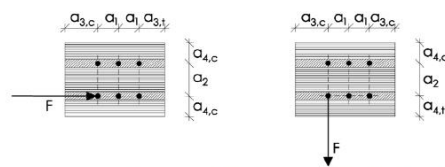


Figure A.2.2 Definition of spacing, end and edge distances in the edge surface of the cross laminated timber. For screws in the edge surface,  $a_1$  and  $a_3$  are parallel to the CLT plane face,  $a_2$  and  $a_4$  perpendicular to CLT plane face.

|                  |          |        |                          |
|------------------|----------|--------|--------------------------|
| Slip modulus     | Kser     | [N/mm] | 25 x l <sub>ef</sub> x d |
| Reaction to fire | Class A1 |        |                          |

8. Appropriate Technical Documentation and/or Specific Technical Documentation:

**not applicable**

*The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.*

*Signed for and on behalf of the manufacturer by:*

*Kuźnica Kiedrzyńska*  
*15.06.2021*

*[place]*  
*[date of issue]*

**DORADCA TECHNICZNY**

**mgr inż. Adam Szczepanowski**  
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*[signature]*