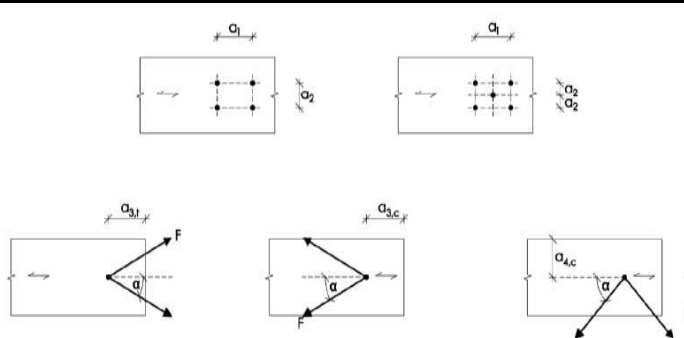
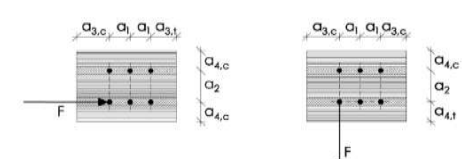


DECLARATION OF PERFORMANCE No 141/SZ/19

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

Essential characteristic	Performance							
Dimensions	ϕ	[mm]	6	8	10			
Characteristic yield moment	$M_{y,k}$	[Nm]	10	25	43			
Bending angle	max.	[°]	33	30	29			
Characteristic withdrawal parameter	$f_{ax,k}$	[N/mm ²]	12	12	11			
Characteristic head pull-through parameter	$f_{head,k}$	[N/mm ²]	9,4	9,4	9,4			
Characteristic tensile strength	$f_{tens,k}$	[kN]	13	25	36			
Characteristic yield strength	$f_{y,k}$	[N/mm ²]	NPD	NPD	NPD			
Characteristic torsional strength	$f_{tor,k}$	[Nm]	10	27	45			
Insertion moment	$R_{tor,k}$	[Nm]	5	11	22			
Spacing, end and edge distances of the screws and minimum thickness of the wood based material								
distance and thickness [mm]	a_1	$a_{3,t}$	$a_{3,c}$	a_2	$a_{4,t}$	$a_{4,c}$	$T_{min.}$	
Plane surface (for $\phi 6/ \phi 8/ \phi 10$)	24/32/40	36/48/60	36/48/60	15/20/25	36/48/60	15/20/25	24/30/40	
Edge surface (for $\phi 6/ \phi 8/ \phi 10$)	60/80/100	72/96/120	42/56/70	24/32/40	36/48/60	18/24/30		
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Figure A.2.1 Definition of spacing, end and edge distances in the plane surface of the cross laminated timber:</p> </div> <div style="text-align: center;">  <p>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.</p> </div> </div>								
Slip modulus	K_{ser}	[N/mm]	25 x l _{ef} 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

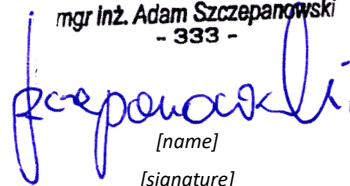
05-02-2019

[place]

[date of issue]

DORADCA TECHNICZNY

mgr inż. Adam Szczepanowski
- 333 -



[name]

[signature]