

DECLARATION of PERFORMANCE

DoP No.: 20024

1. Unique Identification Code of the Product-Type: WBS - Wood Building Screw
2. Intended Use/es: Screws used for connections in timber constructions
d = 3,5 - 12,0 mm and L = 20 - 600 mm
3. Manufacturer: DIN LING CORP.
114 12F, No. 79, ZHOUI ST, TAIPEI 11493
TAIWAN R.O.C.
www.din-ling.eu
4. Authorized Representative: not relevant
5. System/s of AVCP: System 3
- 6a) -
- 6b) European Assessment Document: EAD 130118-01-0603 of 02.2019
European Technical Assessment: ETA-22/0235 of 14.05.2024
Technical Assessment Body: ETA Danmark
Notified Body/ies: -

7. Declared Performances

Essential Characteristics	Performance Declared								Harmonized Technical Specification
	3,5	4,0	4,5	5,0	6,0	8,0	10,0	12,0	
Nominal Diameter d [mm]	3,5	4,0	4,5	5,0	6,0	8,0	10,0	12,0	ETA-22/0235 Annex A
Minor Diameter d1 [mm]	1,9	2,05	2,4	2,8	3,65	5,05	6,2	7,0	ETA-22/0235 Annex A
Shaft Diameter ds [mm]	NPD								ETA-22/0235 Annex A
Head Diameter CSK / FLAT dh [mm]	6,3	7,3	8,2	9,2	11,2/15,2	13,8/16,9	16,6/20,0	19,8	ETA-22/0235 Annex A
Pitch p [mm]	NPD								ETA-22/0235 Annex A
Screw Length L [mm]	20 - 70	20 - 80	20 - 80	25 - 120	40 - 300	40 - 600	80 - 600	80 - 600	ETA-22/0235 Annex A
Thread Length L1 [mm]	14 - 42	16 - 49	18 - 49	20 - 74	24 - 75	32 - 150	40 - 150	50 - 150	ETA-22/0235 Annex A
Yield Moment M _{y,k} [Nm]	2,3	3,3	4,5	5,9	9,5	20,0	36,0	58,0	EAD 130118-01-0603
Bending Angle BW [°]	NPD								EAD 130118-01-0603
Charact. Withdrawal Parameter f _{ax,k} [N/mm ²] at 350 kg/m ³	12,0			11,0			10,0		EAD 130118-01-0603
Charact. Head Pull-through Parameter CSK & FLAT f _{head,k} [N/mm ²] at 350 kg/m ³ t [mm]: <12 (F _{ax,Rk} ≤400 N) / 12-20 / >20	8,0 / 8,0 / 9,4								EAD 130118-01-0603
Charact. Tensile Strength f _{tens,k} [kN]	4,0	5,0	6,0	8,0	9,5	19,0	25,0	42,0	EAD 130118-01-0603
Charact. Yield Strength f _{y,k} [N/mm ²]	NPD								EAD 130118-01-0603
Charact. Torsional Strength f _{tor,k} [Nm]	2,2	3,3	4,5	6,1	9,0	24,0	40,0	68,0	EAD 130118-01-0603
Charact. Insertion Moment R _{tor,mean} [Nm]	NPD								EAD 130118-01-0603
Torsional Ratio f _{tor,k} /R _{tor,mean}	≥ 1,5								EAD 130118-01-0603
Spacing, End and Edge Distances and Minimum Thickness of Timber	For cross laminated timber (CLT) acc. to ETA: CLT face: a1=4·d a2=2,5·d a3,c=6·d a3,t=6·d a4,c=2,5·d a4,t=6·d CLT edge: a1=10·d a2=4·d a3,c=7·d a3,t=12·d a4,c=3·d a4,t=6·d Other Applications and Minimum Thickness: s. EN 1995-1-1								EAD 130118-01-0603 EN 1995-1-1
Slip Modulus K _{ser} [N/mm]	K _{ser} = 25 * d * l _{ef}								EAD 130118-01-0603
Durability [Class]	1			2					EN 1995-1-1
Reaction to Fire [Class]	A1								EAD 130118-01-0603

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

not relevant

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:

Jack Kuo

July 10, 2024

Place, Date

For and on behalf of
DIN LING CORP.

Signature

Signature

Authorized Signature