



DECLARATION OF PERFORMANCE according Annex III of the Regulation (EU) No 305/2011

Name of the product E-JET X screws

No. DOP 20_1-21/1

- 1. Unique identification code of the product-type:
- 2. Intended use:
- 3. Manufacturer:
- 5. System of AVCP:
- European Assessment Document: European Technical Assessment: Technical Assessment Body:

E-JET X screws Screws for use in timber constructions Verbindungselemente Engel GmbH Weltestraße 2+4 D-88250 Weingarten System 3 EAD 130118-01-0603 ETA-21/0055 of 21.05.2021 Deutsches Institut für Bautechnik (DIBt)

7. Declared performances:

Essential features		Measure	Performance			
			Diameter d			
		[mm]	Ø 6,0	Ø 8,0	Ø 10,0	Ø 12,0
Basic	Works Requirement1: N	Mechanical resis	stance and sta	ability (BWR 1)		
Characteristic yield moment M _{y,k}		[Nm]	10,0	20,0	30,0	42,0
Characteristic tensile capacity ftens,k		[kN]	12,0	21,0	27,0	36,0
Characteristic torsional strength $f_{\text{tor},k}$		[Nm]	10,0	24,0	39,0	58,0
Characteristic withdrawal parameter $f_{ax,k}$ (α =90°)		[N/mm ²]	11,0 10,0			
Characteristic head pull-through parameter $f_{head,k}$		[N/mm ²]	12mm ≤ t ≤ 20mm: 8			
t = thickness of wood based panels			t > 20mm: 9,4			
Characteristic yield strength $f_{y,k}$		[N/mm ²]	npd			
Insertion moment ftor,k / Rtor,mean (>1,5)			complies			
Spacing, end and edge distances a			EN 1995-1-1			
Minimum wood thickness t_1	a = min. 25 · d	[mm]	30	30	40	100
	others		EN 1995-1-1			
Slip modus for mainly axially loaded screws K _{ser}		[N/mm ²]	780 · d ^{0,2} · l _{ef} ^{0,4}			
Bending angle α		[°]	min. 45/d ^{0,7} +20			
Durability against corrosion, coating thickness		[µm]	≥3			
	Basic Works Requ	uirement 2: Safe	ety in case of	fire		
Reaction to fire			Class A1			
	Basic Works Requirem	nent 4: Safety ar	nd accessibilit	y in use		
Same as BWR 1						

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

Signed for and on behalf of the manufacturer by:

i. V. Markus Keppeler, Quality management Weingarten, 01.06.2021

This document is a copy in accordance with Article 7 of the EU Construction Products Regulation of the signed original declaration of performance with identical content.