



DECLARATION OF PERFORMANCE  
according Annex III of the Regulation (EU) Nr. 305/2011

Name of the product **Chipboard screw countersunk head, raised countersunk head, Pan-Head;  
made of steel**

Nr. **DOP 1\_1-13/5**

1. Unique identification code of the product-type: DOP 1\_1-13/5
2. Inteded use: Screws for structural timber products
3. Manufacturer: Verbindungselemente Engel GmbH  
Weltestraße 2+4  
D-88250 Weingarten
5. System of AVCP: System 3
6. Harmonised standard: EN 14592:2008+A1:2012  
Notified body: NB 1015
7. Declared performance:

Essential features	Measure	Performance					
		Dimension					
	[mm]	Ø 3,0	Ø 3,5	Ø 4,0	Ø 4,5	Ø 5,0	Ø 6,0
Characteristic yield moment $M_{y,k}$	[Nmm]	887	1572	2341	2784	3599	7524
Characteristic tensile capacity $f_{tens,k}$	[kN]	2,45	2,94	3,67	4,37	5,32	7,40
Characteristic withdrawal parameter $f_{ax,k}$	[N/mm <sup>2</sup> ]	9,41	8,32	9,01	9,92	9,44	10,29
Characteristic head pull-through parameter $f_{head,k}$	[N/mm <sup>2</sup> ]	19,70	18,45	16,73	14,53	16,64	13,93
Characteristic torsional ratio $f_{tor,k} / R_{tor,k}$		≥ 1,50					
Characteristic timber density $\rho$	[Kg/m <sup>3</sup> ]	450					
Corrosion protection zinc coating class of use EN1995-1-1	Class	1					

8. Appropriate Technical Documentation: TPS-CE 1\_1-13

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:

Holger Voss, managing director  
Weingarten, 10.01.2020