

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; nominal- \varnothing 3,0 – 6,0mm; nominal length 16 – 300mm**

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

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| 1. | Unique identification code of the product-type: | DOP 1_1-13/5 |
| 2. | Intended 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]	\varnothing 3,0	\varnothing 3,5	\varnothing 4,0	\varnothing 4,5	\varnothing 5,0	\varnothing 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 $f_{ax,k}$ in timber with characteristic density $\rho_k = 450 \text{ kg/m}^3$	[N/mm ²]	9,41	8,32	9,01	9,92	9,44	10,29
Characteristic head pull-through parameter $f_{head,k}$ in timber with characteristic density $\rho_k = 450 \text{ kg/m}^3$	[N/mm ²]	19,70	18,45	16,73	14,53	16,64	13,93
Characteristic torsional ratio $f_{tor,k} / R_{tor,k}$		≥ 1,50					
Corrosion protection zinc coating, class of use EN 1995-1-1	Class	1					

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

