

## Declaration of Performance, DoP 003/2013

1. Product type: Plastic collated nails for nailing tools
2. Identification: haubold, Paslode & Duo-Fast nails
3. Intended use: For load-bearing wooden structures
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

ITW Construction Products  
Gl. Banegaardsvej 25  
DK-5500 Middelfart

5. Authorised representative: N/A
6. System of assessment: 3
7. Notified body / Test laboratory:

STROJIRENSKY ZKUSEBNI USTAV, s.p.  
no. 1015  
Tovarni 5  
466 21 JABLONEC nad Nisou  
Czech Republic

performed ITT under system 3 (b) "determination of the product-type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation".

8. Declared performance to ETA: N/A
9. Declared performance:

Notes to the table:

Characteristic values are calculated or tested according to EN 14592:2008+A1:2012

10. The performance of the products is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

  
Jan Ditlevsen  
General Manager

Middelfart, June 2013

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Nail diameter [mm]	Shank profile	Nail length [mm]	Head diameter / Head area [mm/mm <sup>2</sup> ]	Length of nail point [mm]	Length of ring shank [mm]	Corrosion protection	Declared values according to EN 14592:2008 + A1:2012						
							Service class	Material	Steel standard	Characteristic values f <sub>u,k</sub> min. 600 or 700 N/mm <sup>2</sup>			
										Withdrawal parameter f <sub>ax,k</sub> [N/mm <sup>2</sup> ]	Head pull- through parameter f <sub>head,k</sub> [N/mm <sup>2</sup> ]	Yield moment M <sub>y,k</sub> [Nmm]	Tensile capacity f <sub>tens,k</sub> [N]
2,5	Ring	25-35	6,8/36	3,5	16-26	A2 A4	1-3 1-3	1.4301 1.4401	EN 10088-1 EN 10088-1	7,66	20,91	2221	NPD
2,8	Smooth	50-90	6,8/35	3,9	N/A	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	2,45	8,58	3054	NPD
2,8	Ring	36-90	6,8/35	3,9	25-71	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	6,85 7,34 7,34	21,64	2470	NPD
2,8	Helical Screw	45-90	6,8/35	3,9	21-66	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	7,66	21,64	3379	NPD
2,9	Smooth Helical Screw	90	6,8/36	4,3	N/A	Bright	1	C9D	EN ISO 16120-2	2,4	8,5	3000	NPD
3,1	Smooth	50-90	7,1/40	3,4	N/A	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	2,45	8,58	3979	NPD
3,1	Ring	50-90	7,1/40	3,4	39-71	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	6,87 7,99 7,99	15,37	3016	NPD
3,1	Helical Screw	50-90	7,1/40	3,4	26-66	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	7,11	15,37	4616	NPD
3,4	Smooth	82-130	8,1/50	3,7	N/A	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	2,45	8,58	5059	NPD
3,4	Ring	90-130	8,2/53	3,7	75	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	7,24 8,74 8,74	15,26	4162	NPD
3,4	Helical Screw	90-100	8,2/53	3,7	75	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	6,35	15,26	5821	NPD
3,8	Smooth	100-130	8,1/50	4,2	N/A	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	2,45	8,58	6755	NPD
3,8	Ring	100-130	8,1/50	4,2	75	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	7,20 7,51 7,51	15,08	6052	NPD
3,8	Helical Screw	101-127,5	8,5/57	5,6	N/A	Bright	1	C9D	EN ISO 16120-2	4,1	17,5	8400	NPD
3,8	Helical Screw	100-130	9,0/64	5,0	45	Electrogalv. 12µm	1-2	1.5523	EN 10263-1	9,86	14,95	5390	NPD
3,8	Helical Screw	100-130	8,1/50	4,2	75	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	5,45	15,08	7992	NPD
4,0	Ring	40-75	8,0/50	4,4	30-55	Electrogalv. 12µm	1-2	C9D	EN ISO 16120-2	8,08	NPD	6587	7694
4,2	Smooth	100-160	8,3/54	4,6	N/A	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	2,45	8,58	8763	NPD
4,2	Helical Screw	145	8,1/52	4,6	75	Bright	1	C9D	EN ISO 16120-2	6,58	15,08	9216	NPD
4,6	Smooth	145-220	9,1/64	5,1	N/A	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	2,45	8,58	11102	NPD
4,6	Helical Screw	160-220	9,0/64	7,0	73	Electrogalv. 12µm	1-2	1.5523	EN 10263-1	10,44	11,91	13000	NPD
4,6	Ring	145-160	9,2/66	5,1	75	Bright	1	C9D	EN ISO 16120-2	9,19	17,91	8880	NPD
5,0	Smooth	160-220	9,2/66	5,5	N/A	Bright Electrogalv. 5µm Electrogalv. 12µm	1 1 1-2	C9D C9D C9D	EN ISO 16120-2 EN ISO 16120-2 EN ISO 16120-2	2,45	8,58	13789	NPD
5,0	Ring	160-220	9,2/66	5,5	75	Bright Electrogalv. 12µm	1 1-2	C9D C9D	EN ISO 16120-2 EN ISO 16120-2	12,65 11,28	16,02	14100	NPD
6,0	Ring	80	12,5/122	9,0	66	Electrogalv. 12µm	1-2	C9D	EN ISO 16120-2	6,6	NPD	21000	16000

Coating type: 2 (to facilitate insertion)

NPD = No Performance Determined

f<sub>ax,k</sub> and f<sub>head,k</sub> are tested at a characteristic timber density of 350 kg/m<sup>3</sup>