

Declaration of Performance, DoP 001/2013

(Version 5)

To visualize previous versions, click on relevant link : http://www.itwcp-techdocs.eu/DoP/Archive/DOP001_V4/DOP_001_English_V4.pdf

1. Product type: Paper and plastic collated nails for nailing tools
2. Identification: Paslode 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:

VHT Versuchsanstalt für Holz und Trockenbau
no. 1503
Annastrasse 18
64285 Darmstadt
Germany

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. For the Paslode PPN nails a European Technical Assessment has been issued:
DS Certificering A/S, ETA-Danmark, Kollegievej 6, DK-2920 Charlottenlund issued ETA-09/0273 performed under system 2+ and issued 2015-04-28.
9. Declared performance:

Notes to the table:

Characteristic values are calculated or tested according to EN 14592:2008 and A1:2012, except for the Paslode PPN nails which are declared according to ETA-09/0273.
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, 2019-05-03

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							Declared values according to EN 14592:2008 + A1:2012						
Nail diameter [mm]	Shank profile	Nail length [mm]	Head diameter/ head area [mm/mm ²]	Length of nail point [mm]	Length of ring shank [mm]	Corrosion protection	Service class	Material	Steel standard	Characteristic values $f_{u,k}$ min. 600 or 700 N/mm ²			
										Withdrawal parameter $f_{ax,k}$ [N/mm ²]	Head pull- through parameter $f_{head,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]	Tensile capacity $f_{tens,k}$ [N]
2,2	Ring	50	5,45/3,9/35	3,3	35	Bright	1	AISI 1008	ASTM A510	8,6	20	1300	NPD
2,5	Smooth	60	7,4,9/28	3,7	N/A	Bright	1	AISI 1008	ASTM A510	2,4	8,5	2250	NPD
	Ring	50	5,85/26	3,7	38	HDG* min. 55 µm	1-3	AISI 1008 Si	ASTM A510	11,5	20	1600	NPD
2,8	Smooth	51-80	6,25/30 7,25/5,1/31	4,2	N/A	Bright Galv-Plus min. 12 µm HDG* min. 55 µm	1	AISI 1008	ASTM A510	2,4	8,5	3050	NPD
							1-2	AISI 1008					
							1-3	AISI 1008 Si					
	Ring	75	6,8/36	4,2	49	Bright	1	C9D	EN ISO 16120-2	6,7	24,6	2700	NPD
	Ring	25-90	5,7/25 6,4/32 6,25/30 6,8/36 7,1/39 7,25/5,1/31	4,2	15-69	Bright Galv-Plus min. 12 µm HDG* min. 55 µm A2 A4	1	AISI 1008	ASTM A510	7,6	20	2200	NPD
							1-2	AISI 1008		7,6	2200		
1-3							AISI 1008 Si		7,2	2100			
1-3							AISI 304	EN 10088-1	7,2	2600			
1-3	AISI 316	EN 10088-1	7,2	2600									
Ring (Haft)	25-32	7,3/41	4,2	14-21	HDG* min. 55 µm A2	1-3 1-3	AISI 1008 Si AISI 304	ASTM A510 EN 10088-1	3,6 3,6	N/A	1950 2950	NPD	
Jagged	55-75	6,8 - 36	4,2	48-67	HDG* min. 55 µm	1-3	AISI 1008 Si	ASTM A510	5	20	2400	NPD	
3,1	Smooth	70-90	6,5/33 7,6/5,3/33 7,1/5,1/30 (HDG)	4,7	N/A	Bright Galv-Plus min. 12 µm HDG* min. 55 µm A4	1	AISI 1008	ASTM A510	2,4	8,5	3950	NPD
							1-2	AISI 1008					
							1-3	AISI 1008 Si					
	Ring	63-98	6,5/33 7,6/5,3/33 7,1/5,1/30 (HDG)	4,7	50-62	Bright Galv-Plus min. 12 µm HDG* min. 55 µm A2 A4	1 1-2 1-3 1-3 1-3	AISI 1008 AISI 1008 AISI 1008 Si AISI 304 AISI 316	ASTM A510 ASTM A510 ASTM A510 EN 10088-1 EN 10088-1	10,1 10,1 10,3 8,9 8,9	20,7	2500 2500 2400 3000 3000	NPD
	Unilock	90-98	6,5/33 7/38 7,6/5,3/33 7,1/5,1/30 (HDG)	4,7	32 (90 mm) 30 (98 mm)	Bright Galv-Plus min. 12 µm (90 mm) HDG* A4	1	AISI 1008	ASTM A510	10,1	20,7	2500	NPD
							1-2	AISI 1008	ASTM A510	10,1	2500		
Jagged	90	7 - 38	4,3	82	HDG* min. 55 µm	1-3	AISI 1008 Si	ASTM A510	5	20	3000	NPD	
Helical Screw	90	7,6/5,3/33	4,7	N/A	Galv-Plus min. 12 µm	1-2	AISI 1008	ASTM A510	2,4	8,5	2400	NPD	
	100	7,1/39	4,7	N/A	Bright	1	C9D	EN ISO 16120-2	6,6	15	4300	NPD	
3,3	Smooth	96	7,1/39	5,0	N/A	Bright	1	AISI 1008	ASTM A510	2,4	8,5	4650	NPD
		100	7,6/5,4/34										
	Helical Screw	88	7,1/39	5,0	68	HDG* min. 55 µm Bright	1-3 1	AISI 1008 Si C9D	ASTM A510 EN ISO 16120-2	6,6 3,8	13,1 16,1	2800 5800	NPD NPD
		90-100	7,1/39	4,0	53-63	Electrogalv. 5 µm Electrogalv. 12 µm	1-2	C9D	EN ISO 16120-2	7,6	16,1	5600	NPD
3,4	Smooth	90-100	7,5/5,4/34 6,5/33	5,1	N/A	Bright Galv-Plus min. 12 µm	1 1-2	AISI 1008 AISI 1008	ASTM A510 ASTM A510	2,4 2,4	8,5 8,5	5050	NPD
		Ring	100	7,5/5,4/34		68	Bright Galv-Plus min. 12 µm	1 1-2	AISI 1008	ASTM A510	8,8	14,4	4200
3,8	Smooth	110-130	7,8/47	5,7	N/A	Bright HDG* min. 55 µm	1 1-3	AISI 1008 AISI 1008 Si	ASTM A510	2,4	8,5	6750	NPD
		Ring	110-130	7,8/47	5,7	67	Bright Electrogalv. 12 µm	1 1-2	AISI 1008	ASTM A510	8,6 7,9	16,4	6850 6700
4,2	Smooth	90-130 130 150	8,6/58	6,3	N/A	Bright Electrogalv. 12 µm HDG* min. 55 µm	1 1-2 1-3	AISI 1008 AISI 1008 AISI 1008 Si	ASTM A510	2,4	8,5	8750	NPD
		Ring	160 130	8,6/58	6,3	130: 48 mm 160: 78 mm	Bright HDG*	1 1-3	AISI 1008 AISI 1008 Si	ASTM A510	8,7	15,9	8450
4,6	Smooth	145-160	9,2/66	6,9	N/A	Bright Galv-Plus min. 12 µm HDG* min. 55 µm	1 1-2 1-3	AISI 1008 AISI 1008 AISI 1008 Si	ASTM A510	2,4	8,5	11100	NPD

Declared values according to EN 14592:2008 + A1:2012													
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										Withdrawal parameter $f_{ax,k}$ [N/mm ²]	Head pull- through parameter $f_{head,k}$ [N/mm ²]	Yield moment $M_{y,k}$ [Nmm]	Tensile capacity $f_{tens,k}$ [N]

NAILScrew®													
2,8	NailScrew®	50-75	7/38	4,2	30-45	Electrogalv.+ HT** A2	1-2 1-3	19MnB4 AISI 304	EN 10269 EN 10088-1	8,3	18	2500 1150	NPD

PP NAILS - ETA 09/0273											Withdrawal capacity $F_{ax,Rk}$ [N]	Shear capacity Thin plates (0,9 ≤ t < 2 mm) $F_{v,Rk}$ [N]	Shear capacity Thick plates (2 ≤ t ≤ 4 mm) $F_{v,Rk}$ [N]	Tensile capacity $f_{tens,k}$ [N]
3,4	Helical Screw Ring	35	7/38	5,1	23	N2*** + HT**	1-2	19MnB4	EN 10269	428	988	9650		
		35	7,8/47										N2*** + HT**	1-2
4	Ring	35-60	N/A	6	35 mm: 21	N2*** + HT** Galv-Plus min. 12 µm HDG min. 55 µm A2 A4	1-2	19MnB4	EN 10269	35 mm: 573	35 mm: 1467	35 mm: 1595	Electrogalv. + HT**: 16150 Galv-Plus: 9200 HDG*: 7450 A2: NPD A4: 9600	
					40 mm: 26					40 mm: 1027				40 mm: 1877
					50 mm: 35					50 mm: 1498				50 mm: 2244
					60 mm: 45					60 mm: 1926				60 mm: 2596

Coating type: 2 (to facilitate insertion), generally on nail lengths ≥ 75 mm

* HDG = Hot-dip galvanized

** HT = Heat treated

*** N2 electrogalv. 8 µm. Documented to comply with service class 2.

NPD = No Performance Determined

$f_{ax,k}$ and $f_{head,k}$ are tested at a characteristic timber density of 350 kg/m³