Declaration of Performance, DoP 001/2013

(Version 8)

To visualize previous versions, click on relevant link : http://www.itwcp-techdocs.eu/DoP/Archive/DOP001_V7/DOP_001_English_V7.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, 2020-04-02

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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]
NAILS													
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 1-2 1-3	AISI 1008 AISI 1008 AISI 1008 Si	ASTM A510	2,4	8,5	3050	NPD
	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 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	8 8 7 7 7	20	2200 2200 2100 2600 2600	NPD
	Ring (Hafte)	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	6,1 6,1	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	18	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 1-2 1-3 1-3	AISI 1008 AISI 1008 AISI 1008 Si AISI 316	ASTM A510 EN 10088-1	2,4	8,5	3950	NPD
	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	9 9 8 8 8	21	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 1-2 1-3 1-3	AISI 1008 AISI 1008 AISI 1008 Si AISI 316	ASTM A510 ASTM A510 ASTM A510 EN 10088-1	9 9 8 8	21	2500 2500 2400 3000	NPD
	Jagged	90	7 - 38	4,3	82	HDG* min. 55 µm	1-3	AISI 1008 Si	ASTM A510	5	18	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	96 100	7,1/39 7,6/5,45/34	5,0	N/A	Bright	1	AISI 1008	ASTM A510	2,4	8,5	4650	NPD
	Helical Screw	88 90-100	7,1/39	5,0 4,0	68 53-63	HDG* min. 55 µm Bright Electrogalv. 5 µm Electrogalv. 12 µm	1-3 1	AISI 1008 Si C9D	ASTM A510 EN ISO 16120-2	6,6 3,8	13,1 16,1	2800 5800	NPD
	Ring	65	7,1/39	4,0	40	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	NPD
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	NPD
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	NPD
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

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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 12 µm +HT** A2	1-2 1-3	17MnB3/20MnB4 AISI 304	EN 10269 EN 10088-1	8,3	18	2500 1150	NPD

										Withdrawal capacity	Shear capacity Thin plates (0,9≤t<2 mm)	Shear capacity Thick plates (2 ≤ t ≤ 4 mm)	Tensile capacity
PP NAILS - ETA 09/0273										$F_{ax,Rk}$ [N]	$F_{v,Rk}$ [N]	$F_{v,Rk}$ [N]	$f_{tens,k}$ [N]
3,4	Helical Screw	35	7/38 7,8/47	5,1	23	N2*** + HT**	1-2	17MnB3/20MnB4	EN 10269	428	988		9650
	Ring	35	7,8/47	5,1	23	N2*** + HT**	1-2	17MnB3/20MnB4	EN 10269	485	1235		
4	Ring	35-60	N/A	6	35 mm: 21 40 mm: 26 50 mm: 35 60 mm: 45	N2*** + HT** Galv-Plus min. 12 µm HDG min. 55 µm A2 A4	1-2 1-2 1-3 1-3 1-3	17MnB3/20MnB4 AISI 1008 AISI 1008 Si AISI 304 AISI 316	EN 10269 ASTM A510 ASTM A510 EN 10088-1 EN 10088-1	35 mm: 555 40 mm: 868 50 mm: 1498 60 mm: 1926	35 mm: 1467 40 mm: 1877 50 mm: 2244 60 mm: 2596	35 mm: 1595 40 mm: 2040 50 mm: 2439 60 mm: 2822	Electrogalv. + HT**: 16150 Galv-Plus: 9200 HDG*: 7450 A2: NPD A4: 9600

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/m^3