

Declaration of Performance, DoP 001/2013

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

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, September 2015

Declaration of Performance, DoP 001/2013

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] ^{A)}	Corrosion protection	Declared values according to EN 14592:2008 + A1:2012						
							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	6,45/32 7,25/5,1/31	4,2	N/A	Bright Galv-Plus 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	25-90	5,7/25 6,4/32 6,45/32 7,1/39 7,25/5,1/31	4,2	15-69	Bright	1	AISI 1008	ASTM A510	9,2	20,3	2200	NPD
						Galv-Plus	1-2	AISI 1008	ASTM A510	7,6			
						HDG* min. 55 µm	1-3	AISI 1008 Si	ASTM A510	7,4			
A2						1-3	AISI 304	EN 10088-1	7,6				
A4	1-3	AISI 316	EN 10088-1	7,6									
Ring	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	8,3 12,1	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	20	2400	NPD	
3	Smooth	25-35	9,5/70	3,4	N/A	Electrogalv. 5 µm HDG* min. 55 µm	1 1-3	C9D	EN ISO 16120-2	2,4	8,5	3100	NPD
3,1	Smooth	70-90	6,5/33 7,5/5,3/33	4,7	N/A	Bright Galv-Plus 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 7,5/5,3/33	4,7	50-62	Bright	1	AISI 1008	ASTM A510	10,1	20,7	2500	NPD
						Galv-Plus	1-2	AISI 1008	ASTM A510	10,1			
						HDG* min. 55 µm	1-3	AISI 1008 Si	ASTM A510	10,3			
						A2	1-3	AISI 304	EN 10088-1	8,9			
A4	1-3	AISI 316	EN 10088-1	8,9									
Unilock	90-98	6,5/33 7,5/5,3/33	4,7	32 (90 mm) 30 (98 mm)	Bright Galv-Plus (90 mm) HDG* A4 (98 mm)	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	10,1 10,1 10,3 8,9	20,7	2500 2500 2400 3000	NPD	
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	1-2	AISI 1008	ASTM A510	2,4	8,5	2400	NPD	
3,3	Smooth	100	7,6/5,45/34	5,0	N/A	Bright	1	AISI 1008	ASTM A510	2,4	8,5	4650	NPD
	Helical Screw	88	7,1/39	5,0	68	HDG* min. 55 µm Bright Electrogalv. 5 µm Electrogalv. 12 µm	1-3	AISI 1008 Si C9D	ASTM A510 EN ISO 16120-2	6,6	13,1	2800	NPD
		90-100		4,0	53-63		1			3,8	16	5800	NPD
Ring	65	7,1/39	4,0	40	Electrogalv. 12 µm	1-2	C9D	EN ISO 16120-2	7,6	16	5600	NPD	
3,4	Smooth	90-100	7,5/5,4/34 6,5/33	5,1	N/A	Bright Galv-Plus	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	1 1-2	AISI 1008 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	90-150	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	130-160	8,6/58	6,3	66	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 HDG* min. 55 µm	1 1-2 1-3	AISI 1008 AISI 1008 AISI 1008 Si	ASTM A510	2,4	8,5	11100	NPD

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	7,8 8,8	18	4000 2000	NPD
-----	------------	-------	------	-----	-------	--------------------------	------------	--------------------	------------------------	------------	----	--------------	-----

PP NAILS - ETA 09/0273

										Withdrawal capacity	Shear capacity Thin plates (0,9 ≤ t ≤ 2 mm)	Shear capacity Thick plates (2 ≤ t ≤ 4 mm)	Tensile capacity
										F _{ax,Rk} [N]	F _{v,Rk} [N]	F _{v,Rk} [N]	f _{tens,k} [N]
3,4	Helical Screw	35	7/38	5,1	23	N2*** + HT**	1-2	19MnB4	EN 10269	428	988		9650
		35	7,8/47							23	N2*** + HT**	1-2	
4	Ring	35-60	N/A	6 or 8	25-46	N2*** + HT** Galv-Plus HDG min. 55 µm A4	1-2 1-2 1-3 1-3	19MnB4 AISI 1008 AISI 1008 Si AISI 316	EN 10269 ASTM A510 ASTM A510 EN 10088-1	35 mm: 573	35 mm: 1467	35 mm: 1595	Electrogalv. + HT**: 16150 Galv-Plus: 9200 HDG*: 7450 A4: 9600
										40 mm: 1027	40 mm: 1877	40 mm: 2040	
										50 mm: 1498	50 mm: 2244	50 mm: 2439	
										60 mm: 1926	60 mm: 2596	60 mm: 2822	

* HDG = Hotdipped 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