

Declaration of Performance, DoP 600/2013

(Version 2)

To visualize previous versions, click on relevant link : http://www.itwcp-techdocs.eu/DoP/Archive/DOP600/DOP_600_English.pdf

1. Product type: Loose nails
2. Identification: NKT Fasteners 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, 2017-12-01

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Nail diameter	Shank profile	Nail length	Head diameter / Head area	Length of nail point	Length of ring shank	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]
[mm]		[mm]	[mm/mm ²]	[mm]	[mm]								
Nails													
2,0	Smooth, Square	20-55	5,3 - 22	3,8	N/A	Bright HDG min. 55 µm	1 1-3	AISI 1015 AISI 1015 Si	ASTM A510	2,4	8,5	1900	NPD
	Smooth, hollow	50	5,2/21	3	N/A	HDG min. 55 µm	1-3	AISI 1015 Si	ASTM A510	2,4	8,5	1900	NPD
	Ring	30-35	4,2/13	3,7	25-30	A4	1-3	AISI 316	EN 10088-1	2,4	8,5	2150	NPD
2,2	Smooth, Square	45-55	5,8/26	3,3	N/A	Bright HDG min. 55 µm	1 1-3	AISI 1015 AISI 1015 Si	ASTM A510	2,4	8,5	1600	NPD
2,3	Ring	45-50	5,7/25	3,5	31-36	A4	1-3	AISI 316	EN 10088-1	2,4	8,5	1800	NPD
2,5	Smooth, Square	55-65	6,5/6 - 33/28	3,8	N/A	Bright HDG min. 55 µm	1 1-3	AISI 1015 AISI 1015 Si	ASTM A510	2,4	8,5	2250	NPD
	Smooth, hollow	65	6,5 - 33	4,4	N/A	HDG min. 55 µm	1-3	AISI 1015 Si	ASTM A510	2,4	8,5	3400	NPD
	Ring	35-60	5,9/27	3,8	19-44	A4	1-3	AISI 316	EN 10088-1	2,4	8,5	3400	NPD
2,8	Smooth, Square	45	5,8 - 26	3,8	31	A2	1-3	AISI 304	EN 10088-1	2,4	8,5	2250	NPD
	Smooth, Square	65-90	6,6/7,3 - 34/41	5	N/A	Bright HDG min. 55 µm	1 1-3	AISI 1015 AISI 1015 Si	ASTM A510	2,4	8,5	3050	NPD
	Smooth, hollow	75	7,3 - 41	5	N/A	HDG min. 55 µm	1-3	AISI 1015 Si	ASTM A510	2,4	8,5	4550	NPD
	Ring	50	5,7 - 25	4,2	38	HDG min. 55 µm	1-3	AISI 1008 Si	ASTM A510	9	20	2900	NPD
	Ring (Haft)	32	7,1 - 39	4,2	22	A2	1-3	AISI 304	EN 10088-1	12,1	N/A	2950	NPD
3,0	Ring	55	7,5 - 44	4,5	27	HDG min. 55 µm	1-3	AISI 1008 Si	ASTM A510	9	20	2800	NPD
3,1	Smooth, Square	80	8 - 50	4,7	N/A	Bright HDG min. 55 µm	1 1-3	AISI 1015 AISI 1015 Si	ASTM A510	2,4	8,5	5950	NPD
	Smooth, square double head	80	6,7 - 35	4,7	N/A	Bright	1	AISI 1015	ASTM A510	2,4	8,5	5950	NPD
	Smooth	240	8 - 50	4,5	N/A	Bright	1	AISI 1008	ASTM A510	2,4	8,5	3950	NPD
	Ring	75	6,8 - 36	4,6	68	A4	1-3	AISI 316	EN 10088-1	6	18	5950	NPD
	Ring	50	5,7 - 25	4,2	38	Electro galv. 12 µm	1-2	AISI 1008 Si	ASTM A510	9	20	2900	NPD
3,4	Smooth, Square	40-95	8,8 - 60	5,1	N/A	Bright HDG min. 55 µm	1 1-3	AISI 1015 AISI 1015 Si	ASTM A510	2,4	8,5	7550	NPD
	Smooth, round/square double head	65-100	6,3 - 31 (round) 7,4 - 43 (square)	5,1	N/A	Bright	1	AISI 1008 AISI 1015	ASTM A510	2,4	8,5	5050 (round) 7550 (square)	NPD
	Smooth, hollow, double head	60-75	7,4 - 43	5,1	N/A	Bright	1	AISI 1015	ASTM A510	2,4	8,5	5950	NPD
	Smooth, hollow	95	8,8 - 60	5,1	N/A	HDG min. 55 µm	1-3	AISI 1015 Si	ASTM A510	2,4	8,5	5950	NPD
	Ring	65	8,5 - 56	5,1	35	HDG min. 55 µm	1-3	AISI 1008 Si	ASTM A510	8,3	20	3600	NPD
3,7	Smooth, hollow, double head	100	8,4 - 55	5,6	N/A	Bright	1	AISI 1015	ASTM A510	2,4	8,5	6300	NPD
3,8	Smooth, Square	100-125	9,1/9,8 - 64/75	6,5	N/A	Bright HDG min. 55 µm	1 1-3	AISI 1015 AISI 1015 Si	ASTM A510	2,4	8,5	10100	NPD
	Ring/ Helical Screw	65-80	7 - 38	6,1	46	Bright	1	AISI 1008	ASTM A510	2,4	8,5	5050	NPD
	Smooth, square double head	100	8,4 - 55	6,8	N/A	Bright	1	AISI 1015	ASTM A510	2,4	8,5	10100	NPD
	Smooth	80	9,8 - 75	6,8	N/A	HDG min. 55 µm	1-3	AISI 1008	ASTM A510	2,4	8,5	6750	NPD
4	Smooth, hollow	125	10,3 - 83	7	N/A	HDG min. 55 µm	1-3	AISI 1015 Si	ASTM A510	2,4	8,5	11550	NPD
	Ring	100	9 - 63	7,2	57	A4	1-3	AISI 316	EN 10088-1	6	18	11550	NPD
	Ring	80	10 - 78	7,2	42	HDG min. 55 µm	1-3	AISI 1015	ASTM A510	2,4	8,5	11550	NPD
4,5	Ring	90-130	11,3 - 100	8,1	46	HDG min. 55 µm	1-3	AISI 1008 Si	ASTM A510	8,7	15,9	8500	NPD
4,6	Smooth, Square	130	12 - 113	7,7	N/A	Bright HDG min. 55 µm	1 1-3	AISI 1015 AISI 1015 Si	ASTM A510	2,4	8,5	16650	NPD
4,8	Smooth, Square	150	12,3 - 118	7,7	N/A	HDG min. 55 µm	1-3	AISI 1015	ASTM A510	2,4	8,5	18600	NPD
5,5	Smooth, Square	150-160	14 - 153	7,7	N/A	Bright HDG min. 55 µm	1 1-3	AISI 1015 AISI 1015 Si	ASTM A510	2,4	8,5	26500	NPD
6	Smooth, Square	180	15 - 176	9,8	N/A	Bright HDG min. 55 µm	1 1-3	AISI 1015 AISI 1015 Si	ASTM A510	2,4	8,5	33200	NPD
7	Smooth, Square	210-260	17 - 226	11,3	N/A	Bright HDG min. 55 µm	1 1-3	AISI 1015 AISI 1015 Si	ASTM A510	2,4	8,5	49600	NPD

PP NAILS - ETA 09/027										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]
4	Ring	35-60 40 40	N/A	6 or 8	25-46 25 25	Galv-Plus min. 12 µm HDG min. 55 µm A4	1-2 1-3 1-3	AISI 1008 AISI 1008 Si AISI 316	ASTM A510 ASTM A510 EN 10088-1	35 mm: 573 40 mm: 1027 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	Galv-Plus: 9200 HDG: 7450 A4: 9600

HDG = Hotdipped galvanized

NPD = No Performance Determined

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