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1. Product type: Screws for load-bearing timber structures
2. Identification: NKT Fasteners & Paslode screws
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 BYG
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

Danish Technological Institute
no. 1235
Gregersensvej 1
DK-2630 Taastrup

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 connector screws 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+A1:2012 except for the Paslode connector screws 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:



Flemming Sørensen
Technical Manager

Middelfart, 2020-09-23

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										Declared values according to EN 14592:2008 + A1:2012									
Brand name	Nominal diameter/ core diameter d/d1 [mm/mm2]	Length [mm]	Head diameter [mm]	Threaded length min. Lg [mm]	Corrosion protection	Service class	Material	Steel standard	Characteristic values										
									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 $f_{tens,k}$ [kN]	Torsional ratio						
SPUN®+ Countersunk	3,5/2,3	15	6,8	Full	Stainless Quality A4 Passivated with wax	1-3	AISI 316 A4	EN 10088-1	14	18	2000	2,8	1,7						
		20																	
		25																	
	4,0/2,6	30	8	Full					27	35	15	19	2800	4,1	2,4				
		40																	
	4,5/2,9	50	8,5	35					35	15	19	3500	4,8	1,5					
		60																	
	5,0/3,2	50	9,6	35					35	15	19	5000	5,3	1,5					
		60																	
		70																	
		80																	
		90																	
		100																	
	6,0/3,9	120	11,3	54					54	14	18	8100	8	1,5					
		90																	
		100																	
		120																	
		140																	
	3,0/1,8	15	6	Full					Electrogalv. / CLIMATE® G3	1-3	10	12	1600	3,3	2,7				
		20																	
		25																	
		30																	
	3,5/2,3	40	6,8	full					Electrogalv. / CLIMATE® G3	1-3	14	18	2000	2,8	1,7				
		27																	
35																			
40																			
50																			
4,0/2,5	20	8,0	Full	Electrogalv. / CLIMATE® G3	1-3	15	19	2900	5,3	2,4									
	25																		
	30																		
	35																		
	40																		
	45																		
	50																		
4,5/2,8	60	8,5	Full	Electrogalv. / CLIMATE® G3	1-3	15	19	4400	6,7	3,1									
	70																		
	80																		
	25										9,6	Full	Electrogalv. / CLIMATE® G3	1-3	15	19	6100	8,5	2,5
	30																		
	35																		
	40																		
50																			
60																			
70																			
6,0/3,9	80	11,4	Full	Electrogalv. / CLIMATE® G3	1-3	14	18	10900	14,0	3,1									
	90																		
	100																		
	120																		
	150																		
	40										60	Full	Electrogalv. / CLIMATE® G3	1-3	14	18	10900	14,0	3,1
	50																		
	60																		
	70																		
	80																		
	90																		
	100																		
	110																		
	120																		
140																			
150																			
160																			
180																			
200																			
240																			

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

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							Declared values according to EN 14592:2008 + A1:2012							
Brand name	Nominal diameter/ core diameter d/d1 [mm/mm2]	Length [mm]	Head diameter [mm]	Threaded length min. Lg [mm]	Corrosion protection	Service class	Material	Steel standard	Characteristic values					
									Withdrawal parameter	Head pull- through parameter	Yield moment	Tensile capacity	Torsional ratio	
									$f_{ax,k}$ [N/mm ²]	$f_{head,k}$ [N/mm ²]	$M_{y,k}$ [Nmm]	$f_{tens,k}$ [kN]		
SPUN®+ Panhead	3,0/1,8	15	6	Full	Electrogalv.	1			10	12	1600	3,3	2,7	
		20												
		30												
	3,5/2,3	15	6,8	Full	Electrogalv. / DURAMAX™1000	1-3			14	18	2000	2,8	1,7	
		20												
		25												
		30												
		40												
		50												
	4,0/2,5	20	8	Full	Electrogalv. / DURAMAX™1000	1-3			15	19	2900	5,3	2,4	
		25												
		30												
		35												
		40												
		50												
	4,5/2,8	20	8,6	Full	Electrogalv. / DURAMAX™1000	1-3			15	19	4400	6,7	3,1	
		25												
		30												
		35												
		40												
50														
5,0/3,2	20	9,6	Full	Electrogalv. / DURAMAX™1000	1-3			15	19	6100	8,5	2,9		
	25													
	30													
	40													
	50													
	60													
6,0/3,9	40	11,6	Full	DURAMAX™1000	1-3			14	18	10900	14,0	3,2		
	50													
	60													
	70													
	80													
	90													
	6,0/4,2	110	11,8	70				15,0	11,8	10600	13	6,4		
		120												
		130												
		140												
		150												
		160												
		170												
		180												
		190												
		200												
	8,0/5,1	210	14,0	80	Yellow zinc	1-2	35 B2 VK	EN 10269	14,0	10,4	23400	22,0	1,5	
		220												
		230												
		240												
		250												
		260												
		270												
		280												
		290												
		300												
	10,0/6,0	210	17,8	100				10,9	9,6	39400	30,7	3,1		
		220												
		230												
		240												
		250												
		260												
		270												
		280												
		290												
		300												

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Brand name	Nominal diameter/ core diameter d/d1 [mm/mm2]	Length [mm]	Head diameter [mm]	Threaded length min. Lg [mm]	Corrosion protection	Service class	Material	Steel standard	Declared values according to EN 14592:2008 + A1:2012									
									Characteristic values									
									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 $f_{tens,k}$ [kN]	Torsional ratio					
TOPKON® DH Dischead	6,0/4,2	120	15	70	Yellow zinc	1-2	35 B2 VK	EN 10269	15,0	11,8	10600	13,0	6,4					
		140																
		180																
		200																
	8,0/5,1	50	19,0	45														
		60		50														
		80																
		100		80														
		120																
		140																
160																		
180																		
200																		
220																		
240																		
260																		
300																		
10,0/6,0	300	23,0	80	10,9	10,4	39400	30,7	3,1										
TOPKON® TK Dischead Outdoor Model A	6,0/3,8	40	13	35	Outdoor 1000 h NSS	1-3	AISI 10B21	ASTM A510	16	29	9000	14	4					
		50																
		60																
		70																
		80																
	8,0/3,8	40	18	35														
		70		50														
		75																
		90																
		80																
10,0/6,1	100	22	70	12	23	28000	31	4										
TOPKON® TK Dischead Outdoor Model B	6,0/3,8	100	13	70	Outdoor 1000 h NSS	1-3	AISI 10B21	ASTM A510	16	29	9000	14	4					
		120																
		140																
	8,0/3,8	150	18	80														
		170																
		300																
		140																
	10,0/6,1	160	22	100					12	23	28000	31	4					
	TOPKON® DH Dischead Outdoor	8,0	50	17					Full	Outdoor 1000 h NSS	1-3	35 B2 VK	EN 10269	16,6	28,4	17500	15,5	1,8
			80						50									
100																		
120																		
140																		
160																		
180																		
200																		
220																		
240																		
280																		
320																		
360																		
400																		
10,0		240	21	100	14,1	31,7	23450	21,8	1,8									
		280																
		320																
		360																
	400																	

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Brand name	Nominal diameter/ core diameter d/d1 [mm/mm2]	Length [mm]	Head diameter [mm]	Threaded length min. Lg [mm]	Corrosion protection	Service class	Material	Steel standard	Declared values according to EN 14592:2008 + A1:2012				
									Characteristic values				
									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 $f_{tens,k}$ [kN]	Torsional ratio
TOPCON® HEX Outdoor	6,5/4,1	45	13,5	27	Outdoor 1000 h NSS	1-3	AISI 1022 10B21	ASTM A510	16	26	11500	16	3
		55		33									
		65		38									
		75		45									
		90		55									
		110											
	120	60											
	140												
	8,0/5,2	45	17,5	27					14	26	16000	21	4
		55		33									
		65		38									
		75		45									
		100		60									
		120											
	130												
	10,0/6,2	50	21,5	29					11	22	26000	31	4
		65		38									
		75		45									
90		55											
100		60											
120													
140													
150													
Adjustment screw Electrogalv.	6,0/4,3	80 100 120	12,0	48 60 70	Electrogalv.	1	AISI 1020 AISI 1022	ASTM A510	11,2	14,1	10500	13,7	2,9
Adjustment screw Electrogalv. (60° CS)	6,0/3,6	70 80 90 100 110 120	9,6	40 60	Electrogalv.	1	AISI 1022	EN 10088-1	14	22	8800	11	1,8
Adjustment screw Electrogalv. Drill point	6,0/3,6	80 100	9,6	45	Electrogalv	1	AISI 1022	EN 10088-1	14	22	8800	11	1,8
PLATA®-FLEX Countersunk	4,2/2,8	35	7,2	20	Yellow zinc	1-2	AISI 1020 AISI 1022	ASTM A510	10,5	17,7	3400	5,5	2,3
		45		27									
55		35											
	4,8/2,9	70	7,5	50					9,9	15,0	5200	6,9	2,5
Basic Countersunk	3,5/2,3	30	7	24	Ruspert	1-3	AISI 1022	ASTM A510	9	10,8	1800	2,5	1,5
		40		27									
		50		33									
	4,0/2,5	30	8	24					10,5	11,7	2600	4,8	2,1
		40		27									
		50		35									
		60		39									
		70		39									
		70		39									
	4,5/2,8	30	8,5	24					8,9	13,5	3900	6	2,8
		40		27									
		50		35									
		60		40									
		70		40									
		80		45									
	5,0/3,2	30	9,6	27					9,3	11,2	5400	7,7	2,6
		40		27									
		50		35									
		60		40									
		70		40									
		80		45									
		90		55									
		100		60									
		120		60									
6,0/3,9	80	11,4	45	9,2	9,4	9800	12,6	2,8					
	100		55										
	120		60										
	150												

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Declared values according to EN 14592:2008 + A1:2012													
Brand name	Nominal diameter/ core diameter d/d1 [mm/mm2]	Length [mm]	Head diameter [mm]	Threaded length min. Lg [mm]	Corrosion protection	Service class	Material	Steel standard	Characteristic values				
									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 $f_{tens,k}$ [kN]	Torsional ratio
Basic Stainless A4	4,0/2,6	40	7,7	27	Stainless Quality A4	1-3	AISI 316 A4	EN 10088-1	10,5	11,7	2500	3,7	2,4
	4,5/2,9	50	8,7	35					8,9	13,5	3100	4,3	1,5
		60							9,3	11,2	4500	4,7	1,5
	5,0/3,2	60	9,7	45									
		70											
80													
6,0/3,9	100	11,7	54	9,2	9,4	7200	7,2	1,5					
Decking screw High end	6,0	60	6,1	31+16	Stainless Quality A4 Passivated with wax	1-3	AISI 316 A4	EN 10088-1	13	Fax,Rk =1100 N (16 mm thread)	8800	8,8	1,8
Decking Screw Outdoor	4,5/2,7	42	7,1	25	Outdoor 1000 h NSS	1-3	AISI 1020, 1022	ASTM A510	13	23	3200	6,5	3,0
		55		31					14	21	4700	8,0	2,0
Decking screw Deck Pro	4,5	60	4,8	34	A4 Outdoor 1000 h NSS	1-3	AISI 316 / 1022	EN 10088-1 / ASTM A510	14	Fax,Rk =1000 N	2500	4,0	2
Decking Screw A4 / A2	4,2/2,5	35	7,0	25	A4	1-3	AISI 316 / 304	EN 10088-1	13	23	2000	4,0	1,5
		42		33	A4 / A2								
		55		48	A4								
		60			A4 / A2								
4,8 / 3,0	75	7,5	48	A4 / A2	13	21	3000	5,0	2,0				
Paslode Building connector screw	5,0/3,0	25	8	18	Electrogalv. 12 µm	1-2	AISI 1022	ASTM A510	15,2	NPD	6450	9,7	5,7
		35		28	Electrogalv. 12 µm / Climate G3	1-3							
		40		33		1-2							
		50		43	Electrogalv. 12 µm	1-2							
	5,0/3,0	40	8	33	Stainless Quality A4 Passivated with wax Stainless Quality A2 Passivated with wax	1-3	AISI 316 AISI 304	EN 10088-1	15,2	NPD	4500	7,5	3
NKT BASIC Connector screw	5,0/3,0	40	8	33	Electrogalv. 12 µm Outdoor 1000 h NSS	1-2	AISI 1020- 1022	ASTM A510	10	12	5000	8	2,6
DBCon Construction screw	6,5/4,0	65	8	32	Outdoor 1000 h NSS	1-3	AISI 1022 10B21	ASTM A510	17	79	12000	15	3
		90		43									
		130		65									
		160		75									
		190											
	220												
	8,2/4,8	90	10	45									
		130		65									
		160		75									
		190											
220													