



Declaration of performance

pov-hrebik

1. Unique identification code of the product: **Nail**

2. Type, batch or serial number or any other element allowing identification of the construction product :
 - **body: smooth ; ring ; screw**
 - **diameter: 2,0 – 8,0 mm**
 - **head: full; pan; type D**
 - **material: construction steel C9D, min. tensile strength 600 MPa ; staines steel (AISI 304, AISI 316)**
 - **free coating, galvanize coating**

3. Intended use of construction product:

Nail for timber structure load

4. Name, company or registered trade mark and contact address:

Hašpl a.s.,
Ke Koupališti 172
549 32 Velké Poříčí

IČO: 274 66 663
DIČ: CZ274 66 663

5. Systems of assessment and verification of constancy of performance of the construction product:

product according EN 14592:2008 +A1:2012 tab. ZA.2 verification of constancy **system 3.**

6. Name and identification number of notified body:

Strojírenský zkušební ústav, s.p. notified body: 1015

performed determination of the product type. Based on initial test determinate properties of product base characteristic according EN 14 592:2008-A1:2012 ZA1

and publish

protocol number: see **Table**.

7. Declared performance:

see **Table**.

8. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7.

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 :

Kubeček Vlastimil
quality manager
(name and position)

Velkém Poříčí 11.12.2018

.....
(place and date)

WHASPL[®]

Hašpl a.s., Ke Koupališti 172, 549 32 Velké Poříčí
Tel.: +420 491 401 711 Fax: +420 491 401 710
IČ: 27466663 BIC: CZ27466663



.....
(signature)

Table

Product	Characteristic yield moment $M_{y,k}$ [Nmm]	Characteristic withdrawal parametr $f_{ax,k}$ [N/mm ²]		Characteristic wood density ρ_k [kg/m ³]	Characteristic head pull through parametr $f_{head,k}$ [N/mm ²]	Characteristic wood density ρ_k [kg/m ³]	Characteristic tensile capacity $f_{tens,k}$ [kN]	Protocol nr:
		across the fibre	along the fibre					
Smooth and common nail \varnothing 2,0 mm	1 600	2,56	1,76	400	23,58	400	2,90	30-10046/1
Ring nail \varnothing 2,0 mm	1 258	10,22	5,07	400	24,27	400	1,85	30-10046/1
Screw nail \varnothing 2,0 mm	1 126	4,05	2,73	400	24,98	400	1,79	30-10046/1
Smooth and common nail \varnothing 2,1 mm	1 268	6,83	4,01	440	43,93	427	2,04	30-9383
Ring nail \varnothing 2,1 mm	934	16,65	13,33	535	41,77	427	1,69	30-9383
Screw nail \varnothing 2,1 mm	1 155	7,72	8,26	470	59,98	427	1,65	30-9383
Smooth nail \varnothing 2,1 mm Stainless Pan head.	1 229	2,91	1,93	400	25,88	400	2,53	30-10294/1
Ring nail \varnothing 2,1 mm Stainless Pan head.	1 619	8,59	4,77	400	25,99	400	2,61	30-10294/1
Smooth and common nail \varnothing 2,2 mm	1 415	4,82	5,07	430	37,74	427	2,32	30-9383
Ring nail \varnothing 2,2 mm	1 233	14,24	14,48	420	38,39	427	2,37	30-9383
Screw nail \varnothing 2,2 mm	1 349	8,36	6,89	440	48,73	427	2,31	30-9383
Smooth nail \varnothing 2,2 mm Stainless Pan head	1 555	3,05	2,30	400	25,20	400	2,99	30-10294/2
Ring nail \varnothing 2,2 mm Stainless Pan head	1 821	8,32	5,48	400	25,42	400	3,08	30-10294/2
Smooth and common nail \varnothing 2,3 mm	1 715	5,64	3,20	380	54,27	427	3,17	30-9383
Ring nail \varnothing 2,3 mm	1 390	13,91	12,63	460	53,77	427	2,73	30-9383
Screw nail \varnothing 2,3 mm	1 767	6,18	5,62	455	48,56	427	2,94	30-9383
Smooth nail \varnothing 2,3 mm Stainless	2 072	3,78	2,47	400	23,87	400	3,64	30-10294/3
Ring nail \varnothing 2,3 mm Stainless Pan head	2 288	8,10	5,90	400	23,89	400	3,68	30-10294/3
Smooth and common nail \varnothing 2,5 mm	2 635	7,53	5,71	505	45,96	427	3,45	30-9383
Ring nail \varnothing 2,5 mm	2 212	14,48	12,29	420	40,13	427	3,51	30-9383
Screw nail \varnothing 2,5 mm	2 533	7,05	6,76	465	38,14	427	3,57	30-9383
Smooth nail \varnothing 2,5 mm Stainless	2 112	3,61	2,66	400	22,41	400	3,61	30-10294/4
Ring nail \varnothing 2,5 mm Stainless Pan head	2 389	10,35	5,45	400	22,35	400	3,75	30-10294/4
Smooth and common nail \varnothing 2,6 mm	2 408	3,34	1,90	350	28,45	350	2,85	30-14228/JP
Ring nail \varnothing 2,6 mm	2 218	10,76	5,30				3,57	
Screw nail \varnothing 2,6 mm	2 421	3,44	1,97				3,59	
Smooth and common nail \varnothing 2,8 mm	3 522	4,44	3,26	380	38,36	427	4,45	30-9383
Ring nail \varnothing 2,8 mm	3 226	10,49	9,13	410	42,22		4,25	
Screw nail \varnothing 2,8 mm	3 153	7,93	7,44	390	39,91		4,12	
Smooth nail \varnothing 2,8 mm D head	3 607	2,69	2,26	400	23,64	400	2,14	30-10293/1
Ring nail \varnothing 2,8 mm D head	3 278	11,21	6,46	400	22,74	400	1,85	30-10293/1
Smooth nail \varnothing 2,8 mm Stainless	2 879	3,92	2,87	400	21,76	400	4,61	30-10294/5
Ring nail \varnothing 2,8 mm Stainless Pan head	3 145	10,91	5,37	400	21,29	400	4,69	30-10294/5
Machine nail \varnothing 2,9 mm	3 710	3,66	1,97	350	Round head 26.08	350	4,31	30-14227/JP
Ring nail \varnothing 2,9 mm	3 587	10,07	4,92		D Head 24.19		3,81	
Screw nail \varnothing 2,9 mm	3 579	3,75	1,99		4,04			
Smooth nail \varnothing 3,1 mm	4 695	4,55	4,30	465	40,99	427	4,28	30-9383
Ring nail \varnothing 3,1 mm	4 384	10,71	12,17	435	41,08	427	4,97	30-9383
Screw nail \varnothing 3,1 mm	4 577	6,49	5,93	430	39,56	427	4,70	30-9383
Smooth nail \varnothing 3,1 mm D head	4 790	3,38	2,51	400	23,32	400	3,48	30-10293/3
Ring nail \varnothing 3,1 mm D head	4 137	10,13	6,42	400	22,83	400	3,54	30-10293/3
Smooth nail \varnothing 3,1 mm Stainless	3 932	3,97	2,68	400	23,15	400	5,53	30-10294/6
Ring nail \varnothing 3,1 mm Stainless Pan head	4 115	10,19	5,29	400	23,08	400	5,67	30-10294/6
Smooth nail \varnothing 3,3 mm	6 691	3,56	2,62	350	Round head 31.25	350	6,20	30-11486
Ring nail \varnothing 3,3 mm	6 197	10	5,46		D head 26.32		5,64	
Screw nail \varnothing 3,3 mm	6 885	5,52	2,81		6,12			

continue

Table

Product	Characteristic yield moment $M_{y,k}$ [Nmm]	Characteristic withdrawal parametr $f_{ax,k}$ [Nmm ²]		Characteristic wood density ρ_k [kg/m ³]	Characteristic head pull through parametr $f_{head,k}$ [Nmm ²]	Characteristic wood density ρ_k [kg/m ³]	Characteristic tensile capacity $f_{tens,k}$ [kN]	Protocol nr:
		across the fibre	along the fibre					
Smooth and common nail \varnothing 3,4 mm	5 780	4,87	4,71	500	36,10	427	3,43	30-9383
Ring nail \varnothing 3,4 mm	5 347	13,36	12,55	505	27,62	427	5,25	30-9383
Screw nail \varnothing 3,4 mm	5 960	6,22	4,49	490	28,63	427	4,73	30-9383
Smooth nail \varnothing 3,4 mm D head	5 929	3,41	2,62	400	23,18	400	3,92	30-10293/4
Ring nail \varnothing 3,4 mm D head	5 518	12,28	6,07	400	22,13	400	3,73	30-10293/4
Smooth and common nail \varnothing 3,5 mm	7 366	3,39	1,80	350	26,14	350	5,67	30-14201/JP
Ring nail \varnothing 3,5 mm	7 242	10,05	4,86	350	26,14	350	5,90	30-14201/JP
Screw nail \varnothing 3,5 mm	7 764	3,47	2,04	350	26,14	350	7,18	30-14201/JP
Smooth and common nail \varnothing 3,6 mm	6 824	2,44	1,81	400	20,13	400	5,33	30-10046/2
Ring nail \varnothing 3,6 mm	6 698	10,94	4,93	400	22,00	400	4,80	30-10046/2
Screw nail \varnothing 3,6 mm	7 201	4,46	2,53	400	21,56	400	7,65	30-10046/2
Smooth and common nail \varnothing 3,8 mm	6 783	3,97	3,83	490	44,23	427	6,60	30-9383
Ring nail \varnothing 3,8 mm	6 731	13,85	12,17	500	37,39	427	5,98	30-9383
Screw nail \varnothing 3,8 mm	7 386	3,95	4,48	480	40,87	427	6,06	30-9383
Smooth and common nail \varnothing 4,0 mm	9 029	3,09	2,18	400	20,54	400	9,60	30-10046/3
Ring nail \varnothing 4,0 mm	7 982	10,17	4,83	400	21,40	400	9,27	30-10046/3
Screw nail \varnothing 4,0 mm	9 035	4,50	2,83	400	20,86	400	9,16	30-10046/3
Ring nail ANCHOR \varnothing 4,0 mm	8 358	10,30	5,88	400	22,08	400	9,24	30-10220
Smooth and common nail \varnothing 4,2 mm	10 317	4,32	2,92	510	31,09	427	6,52	30-9383
Ring nail \varnothing 4,2 mm	9 561	13,42	9,65	500	31,70	427	7,71	30-9383
Screw nail \varnothing 4,2 mm	10 208	5,54	5,27	510	28,56	427	6,59	30-9383
Smooth and common nail \varnothing 4,6 mm	10 488	4,63	4,17	495	25,33	427	8,31	30-9383
Ring nail \varnothing 4,6 mm	9 802	9,88	8,86	510	25,57	427	7,92	30-9383
Screw nail \varnothing 4,6 mm	10 700	5,02	3,89	490	26,30	427	8,33	30-9383
Smooth and common nail \varnothing 5,0 mm	25 461	5,32	2,75	450	22,24	450	10,11	30-9987/1
Ring nail \varnothing 5,0 mm	23 101 ¹⁾ 25 682 ²⁾	8,96	5,64	450	21,89	450	9,79	30-9987/1
Screw nail \varnothing 5,0 mm	25 256 ¹⁾ 26 082 ²⁾	5,67	3,06	450	20,71	450	11,36	30-9987/1
Common nail \varnothing 5,6 mm	34 269	4,98	2,90	450	21,99	450	15,93	30-9987/2
Common nail \varnothing 6,3 mm	44 433	4,70	2,80	450	22,97	450	17,07	30-9987/3
Common nail \varnothing 7,1 mm	63 423	4,33	2,63	450	21,35	450	22,53	30-9987/4
Common nail \varnothing 7,6 mm	69 613	4,49	2,21	450	18,18	450	24,53	30-9987/5
Common nail \varnothing 8,0 mm	70 837	4,55	2,23	450	20,70	450	26,12	30-9987/6
Durability (corrosion resistance)	BK – without coating, service class 1, NK – galvanized coating, service class 2, FV – galvanized coating (hot dipped zinc) stainless steel, service class 3							

1) smooth part
2) profiled part