

DECLARATION OF PERFORMANCE

No. 007

1. Unique identification code of product type:

Ring nail, flat head / convex head, diameter 1.9 up to 4.0 mm

2. Intended use/es:

Used for structural timber products

3. Manufacturer:

Pintos Oy
Pysäköintie 12
27510 Eura
FINLAND

5. System/s of AVCP:

System 3

6 a. Harmonised standard:

EN 14592:2008+A1:2012

Notified body/ies:

Institut Technologique FCBA, identification number 0380,
Initial type Testing Report No 2010-104-2032

VTT Expert Services Oy, identification number 0537,
Initial type Testing Report No. VTT-S-00518-14

VTT Expert Services Oy, identification number 0537,
Initial type Testing Report No. VTT-S-03186-15

Factory production control (FPC) system is maintained under the responsibilities of the manufacturer.

7. Declared performance/s:

Harmonized technical specification:

Dimensions:

EN 14592:2008+A1:2012

Material:

Characteristics tensile strength of wire: $\min \geq 600 \text{ N/mm}^2$ according to EN 14592:2008+A1:2012

Hot dip zinc coated / Electro zinc coated: EN 16120

Stainless steel AISI 316 / A4; AISI 304 / A2: EN 10088

Coating:

Hot dip zinc coating:

Zinc layer thickness $\geq 49 \mu\text{m}$, Service Class 3 according to EN 1995-1-1

Electroplated zinc coating:

Zinc layer thickness $\geq 12 \mu\text{m}$ or $\geq 25 \mu\text{m}$, Service Class 2 or 3 according to EN 1995-1-1

Essential characteristics:

EN 14592:2008+A1:2012

HOT DIP ZINC COATING, Durability i.e corrosion protection Z350 Service Class 3

Name	Dimensions diameter x length d x l [mm]	Head cross- sectional area A _h [mm ²]	Length of threaded part l _g [mm]	Length of point l _p [mm]	Characteristic yield moment M _{y,k} [Nmm]	Characteristic withdrawal parameter ^{a)} f _{ax,k} [N/mm ²]	Characteristic head pull- through parameter ^{a)} f _{head,k} [N/mm ²]	Characteristic tensile capacity f _{tens,k} [kN]
2,1 x 40	2,1 x 40	16,3	29,0	2,7	960	7,87	27,2	NPD ^{b)}
2,5 x 50	2,5 x 50	31,1	38,0	2,8	1493	4,69	NPD ^{b)}	
3,1 x 75	3,1 x 75	36,3	50,0	3,2	3037			
3,1 x 90	3,1 x 90		65,0					

ELECTROPLATED ZINC COATING, Durability i.e corrosion protection Fe/Zn12/A Service Class 2 or Fe/Zn25/A Service Class 3

Name	Dimensions diameter x length d x l [mm]	Head cross- sectional area A _h [mm ²]	Length of threaded part l _g [mm]	Length of point l _p [mm]	Characteristic yield moment M _{y,k} [Nmm]	Characteristic withdrawal parameter ^{a)} f _{ax,k} [N/mm ²]	Characteristic head pull- through parameter ^{a)} f _{head,k} [N/mm ²]	Characteristic tensile capacity f _{tens,k} [kN]
2,1 x 30	2,1 x 30	17,3	20,0	2,6	980	5,95	NPD ^{b)}	NPD ^{b)}
2,1 x 35	2,1 x 35		25,0	2,7				
2,1 x 40	2,1 x 40		29,2	2,8		6,01		
2,3 x 40	2,3 x 40	23,7	26,0	3,4	1323	4,50		
2,5 x 45	2,5 x 45	31,1	34,0	2,7	1742	5,39		
2,5 x 50	2,5 x 50		40,0	3,0				
2,8 x 60	2,8 x 60	36,3	36,0	3,4	2532	6,31		
3,0 x 70	3,0 x 70	40,7	46,0	3,6	3186	8,63		
3,1 x 60	3,1 x 60	36,3	30,0	3,7	3543	8,21		
3,1 x 75	3,1 x 75		47,0	4,1				

AISI 304 / A2, Durability i.e corrosion protection Stainless steel Service Class 3

Name	Dimensions diameter x length d x l [mm]	Head cross- sectional area A_h [mm ²]	Length of threaded part l_g [mm]	Length of point l_p [mm]	Characteristic yield moment $M_{y,k}$ [Nmm]	Characteristic withdrawal parameter ^{a)} $f_{ax,k}$ [N/mm ²]	Characteristic head pull- through parameter ^{a)} $f_{head,k}$ [N/mm ²]	Characteristic tensile capacity $f_{tens,k}$ [kN]
2,3 x 40	2,3 x 40	22,9	28,5	2,7	1710	7,31	27,86	NPD ^{b)}
2,5 x 40	2,5 x 40	27,2	23,0	3,0	1830	4,87	24,97	
2,5 x 45	2,5 x 45		26,9	3,4				
2,5 x 50	2,5 x 50		31,1	3,3				
2,5 x 60	2,5 x 60		37,0	3,3				

AISI 316 / A4, Durability i.e corrosion protection Stainless steel Service Class 3

Name	Dimensions diameter x length d x l [mm]	Head cross- sectional area A _h [mm ²]	Length of threaded part l _g [mm]	Length of point l _p [mm]	Characteristic yield moment M _{y,k} [Nmm]	Characteristic withdrawal parameter f _{ax,k} [N/mm ²]	Characteristic head pull- through parameter ^{a)} f _{head,k} [N/mm ²]	Characteristic tensile capacity f _{tens,k} [kN]
1,9 x 20	1,9 x 20	15,9	13,0	2,3	640	10,29	NPD ^{b)}	NPD ^{b)}
1,9 x 25	1,9 x 25		17,0					
1,9 x 30	1,9 x 30		21,0					
1,9 x 35	1,9 x 35		21,0					
2,1 x 25	2,1 x 25	17,3	17,0	2,4	891	8,97		
2,1 x 30	2,1 x 30	22,0	20,0					
2,3 x 35	2,3 x 35	22,9	23,3	2,7	1203	7,31		
2,3 x 38	2,3 x 38		25,3					
2,3 x 40	2,3 x 40		28,5					
2,3 x 45	2,3 x 45		30,0					
2,3 x 50	2,3 x 50		33,0					
2,5 x 50	2,5 x 50	25,1	33,0	3,0	1584	8,30		
2,5 x 55	2,5 x 55		37,0					
2,5 x 60	2,5 x 60		48,3					
2,8 x 50	2,8 x 50	34,2	33,0	3,4	2302	6,63		
3,1 x 50	3,1 x 50	35,2	33,0	3,7	3221	10,94		
3,1 x 70	3,1 x 70		47,0					
3,1 x 75	3,1 x 75		50,0					
3,1 x 85	3,1 x 85		61,0					
4,0 x 100	4,0 x 100	50,3	58,2	6,0	7469	9,54		
4,0 x 145	4,0 x 145	69,3	96,6					

a) Parameter was measured on timber with a characteristic density of 350 kg/m³ (C24)

b) No Performance Determined

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Eura, 28th August 2015

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Tuomas Pere, Managing Director