

DECLARATION OF PERFORMANCE

No. 008

1. Unique identification code of product type:

Ring nail, flat head / convex head, coil / plastic collated, diameter 2.1 up to 3.1 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-01226-14

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: 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

Angle of collation:

Coil: 16°

Plastic collated: 17° , 21° , 34°

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]
2,3 x 50	2,2 x 49	25,5	24,0	3,2	1460	10,37	20,16	NPD ^{b)}
2,3 x 60	2,3 x 60	20,0	53,0	2,8	1134	4,69	NPD ^{b)}	
2,5 x 45	2,5 x 45	23,7	38,0	3,0	1493			
2,5 x 50	2,5 x 50	31,1	42,0					
2,5 x 55	2,5 x 55	23,7	48,0					
2,5 x 60	2,5 x 60		40,0					
2,5 x 65	2,5 x 65		43,3					
2,5 x 70	2,5 x 70		46,6					
2,8 x 50	2,8 x 50	34,2	33,3	3,4	2170			
2,8 x 60	2,8 x 60		45,0					
2,8 x 65	2,8 x 65		43,3					
2,8 x 70	2,8 x 70	35,2	55,0					
2,8 x 75	2,8 x 75		50,0					
3,1 x 80	3,1 x 80	36,3	60,0	3,7	3037			
3,1 x 85	3,1 x 85		60,0					
3,1 x 90	3,1 x 90		60,0	3,2				
3,1 x 90	3,0 x 88	35,3	27,9	4,3		9,02		

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]
2,3 x 50	2,3 x 50	25,5	33,3	2,8	1134	4,50	NPD ^{b)}	NPD ^{b)}
2,3 x 55	2,3 x 55	23,7	40,0					
2,5 x 50	2,5 x 50	31,1	43,0	3,0	1493	5,39		
2,5 x 60	2,5 x 60		43,0					
2,5 x 64	2,5 x 64		42,6					

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]
2,1 x 50	2,1 x 50	18,9	43,0	2,6	891	8,97	NPD ^{b)}	NPD ^{b)}
2,3 x 38	2,3 x 38	22,9	25,0	2,7	1203	7,31		
2,3 x 45	2,3 x 45		30,0					
2,3 x 50	2,3 x 50		33,0					
2,3 x 55	2,3 x 55		37,0					
2,5 x 50	2,5 x 50	31,1	43,0	3,0	1584	8,30		
2,5 x 60	2,4 x 59	25,1	48,3					
2,5 x 65	2,5 x 65		44,0					
2,5 x 70	2,5 x 70		47,0					
2,8 x 50	2,8 x 50	35,2	43,0	3,4	2302	6,63		
2,8 x 55	2,8 x 55		48,0					
2,8 x 60	2,8 x 60		53,0					
2,8 x 65	2,8 x 65		58,0					
2,8 x 70	2,8 x 70		63,0					
2,8 x 75	2,8 x 75	34,2	55,0	3,7	3221	10,94		
2,8 x 80	2,8 x 78	32,7	65,6					
3,1 x 80	3,1 x 80	41,8	53,0					
3,1 x 90	3,1 x 90	36,3	70,0					

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