

RING SHANK NAIL, COIL

HOT DIP GALVANIZED



Declaration of Performance



Dokument no: CE-300372-A1
Used for fix boarding, panels and secondary spaced boarding to a timber base

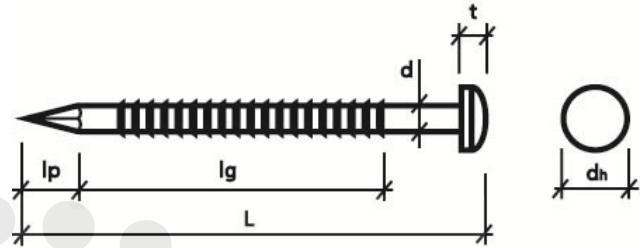
Dimensions:
d: 2,5-31 mm L: 45-90 mm

Material:
EN ISO 16120-2

Characteristic tensile strength of wire (f_u) in acc. with EN 10218-1, min. 600 N/mm²

Treatment:
Hot dip galvanized - min. 50 μ m

Coil:
15° 17° 21°



DIMENSIONS

HOT DIP GALVANIZED							
Name	Nominal diameter d [mm]	Total length L [mm]	Threaded length l _g [mm]*	Head diameter d _h [mm]	Head area A _h [mm ²]	Head thickness t [mm]	Point length l _p [mm]
2,5x45	2,5	44,0	27,0	5,7	26,0	1,2	3,2
2,5x50		49,0	32,0				
2,5x55		54,0	33,0				
2,5x60		59,0	42,0				
2,5x65		64,0	47,0				
2,8x60	2,8	59,0	30,0	6,9	37	1,3	3,4
2,8x75		74,0	46,0				
3,1x90	3,1	88,0	59,0	6,9	37,0	1,6	4,3

*Total threaded length excluding two plain parts for coil wire 4+4 mm.

CHARACTERISTIC LOAD CAPACITY

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Name	Nominal diameter d [mm]	Total length L [mm]	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]	
2,5x45	2,5	44,0	4,1	19,7	1900	3,2	
2,5x50		49,0					
2,5x55		54,0					
2,5x60		59,0					
2,5x65		64,0					
2,8x60	2,8	59,0	5,2	15,4	2600	3,9	
2,8x75		74,0					
3,1x90	3,1	88,0	-	-	-	-	

* The withdrawal parameter f_{ax,k} and the head pull-through parameter f_{head,k} is tested in wood with a characteristic density of $\rho_k=350$ kg/m³ (C24). When wood with another density is used values shall be multiplied with $\rho_k/350$.

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PRODUCT IDENTIFICATION

Following articles which are sold in the brand name GUNNEBO FASTENING are covered by this Declaration of Performance:

ARTICLE NUMBER

Z776145 Z776160 Z794051 Z794065 Z724090
Z776150 Z776165 Z724060 Z724076

The manufacturer declares for:

Ring shank nail coil 15°, hot dip galvanized, diameter 2,5 up to 2,8 mm

1. Product is in accordance with EN 14592:2008 "Timber Structures – Dowel-type fasteners – Requirements".
2. Initial Type Testing was performed to confirm essential characteristic values in accordance to table ZA.1 in EN 14592. Declared values accompanies with the CE mark on each package and in this technical document.
3. Initial Typprovning är utförd av DTI, Danish Technological Institute. $f_{tens,k}$ in report DK 474099-1, Taastrup, 2012-04-27.
 $M_{y,k}$ in report DK 474099-2, Taastrup, 2011-04-27.
 $f_{ax,k}$ in report DK 474099-3, Taastrup, 2011-05-15.
 $f_{head,k}$ in report DK 474099-4, Taastrup, 2011-05-15.
 $f_{u,k}$ in report DK 1302213, Århus, 2012-04-26.
4. For this product the compliance with the conditions of the Annex ZA in EN 14592 are accomplished.
5. A FPC system is established and maintained under the responsibilities of the manufacturer.

Hot dip galvanized 50 μm .

The system of attestation of conformity for Timber fasteners used for structural timber products is 3.

This declaration of conformity is valid until any changes in the product, the raw material or the production process is performed, which would significantly change the declared characteristics.

Gunnebo 2012-08-17, revidert 2013-02-01

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