

ROOFING NAIL



HOT DIP GALVANIZED / STAINLESS STEEL AISI 316/A4

Declaration of Performance



Document no: CE-300402-A2

Non-leak nail with washer, ring shank and bell head. The nail has a number of uses including fitting stainless steel corrugated roofing sheeting to a timber base.

Dimensions:

Hot dip galvanized: d 3,7 mm L 50-110 mm
Stainless steel: d 3,4 mm L 60 mm

Material:

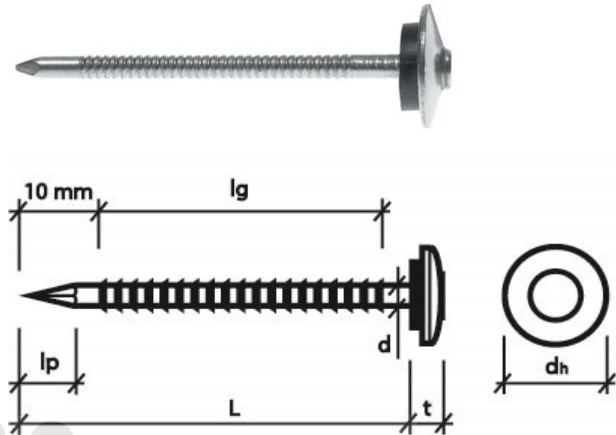
Hot dip galvanized: EN ISO 16120
Stainless steel AISI 316/A4: EN 10088

Characteristic tensile strength of wire (fu) in acc. with EN EN 10218-1

Hot dip galvanized: min. 600 N/mm²
Stainless steel AISI 316/A4: min. 600 N/mm²

Treatment:

Hot dip galvanized - min. 50 µm
Stainless steel - Corrosion class C5-M



DIMENSIONS

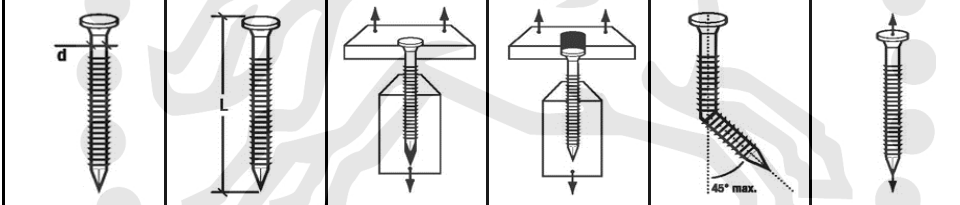
HOT DIP GALVANIZED

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]
3,7x50	3,7	50,0	30,0	18,0	254,5	4,0	5,1
3,7x60		60,0	40,0				
3,7x65		65,0					
3,7x75		75,0					
3,7x100		100,0					
3,7x110		110,0					

AISI 316/A4

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]
3,4x60	3,4	60,0	40,0	18,0	254,5	4,0	4,7

CHARACTERISTIC LOAD CAPACITY

HOT DIP GALVANIZED						
Name	Nominal diameter d [mm]	Total length L [mm]	Withdrawal parameter $f_{ax,k}$ [N/mm ²]*	Head pull-trough parameter $f_{head,k}$ [N/mm ²]*	Yield moment $M_{y,k}$ [Nmm]	Tensile capacity $f_{tens,k}$ [kN]
3,7x50	3,7	50,0	5,4	NPD**	5400	5,8
3,7x60		60,0				
3,7x65		65,0				
3,7x75		75,0				
3,7x100		100,0				
3,7x110		110,0				
AISI 316/A4						
Name	Nominal diameter d [mm]	Total length L [mm]	Withdrawal parameter $f_{ax,k}$ [N/mm ²]*	Head pull-trough parameter $f_{head,k}$ [N/mm ²]*	Yield moment $M_{y,k}$ [Nmm]	Tensile capacity $f_{tens,k}$ [kN]
3,4x60*	3,4	60,0	3,6	NPD**	5900	7,2
						

* The withdrawal parameter $f_{ax,k}$ is tested in wood with a characteristic density of $\rho_k=350 \text{ kg/m}^3$ (C24). When wood with another density is used values shall be multiplied with $\rho_k/350$.

** "No Performance Declared"

PRODUCT IDENTIFICATION

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

ARTICLE NUMBER

Z436247	Z112151	Z269097	7717	2672
5441	Z271335	Z330925	7687	3602
Z196581	6279	Z269885	7718	3603
Z136787	Z271173	Z129371	Z392739	Z456112
Z201384	Z271327	Z445299	Z392593	5131
Z467514	Z541561	3965	2771	
Z201481	Z384013	4448	Z390127	

The manufacturer declares for:**Roofing nail, Hot dip galvanized, diameter 3,7 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 Type Testing is performed by DTI, Danish Technological Institute.
The results of $f_{tens,k}$: report DK 426382-1, 2011-06-30, Taastrup.
The results of $M_{y,k}$: report DK 426382-3, 2011-05-05, Taastrup.
The results of $f_{ax,k}$: report DK 426382-4, 2011-05-12, Taastrup.
The results of $f_{u,k}$: report DK 1302213, 2011-04-28, Århus.
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 min. 50 μ m.

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, revised 2013-08-20



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Head of Operation, Claes Arnesson



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ROOFING NAIL

HOT DIP GALVANIZED / STAINLESS STEEL AISI 316/A4



Declaration of
Performance

The manufacturer declares for:

Roofing nail, stainless steel, diameter 3,4 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 Type Testing is performed by DTI, Danish Technological Institute.
The results of $f_{tens,k}$: report DK 426382-1, 2011-06-30, Taastrup.
The results of $M_{y,k}$: report DK 426382-3, 2011-05-05, Taastrup.
The results of $f_{ax,k}$: report DK 426382-4, 2011-05-12, Taastrup.
The results of $f_{u,k}$: report DK 1302213, 2011-04-28, Århus.
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.

Stainless steel, AISI 316/A4

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, revised 2013-02-01

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