

ROUND JAGGED NAIL

HOT DIP GALVANIZED



Declaration of Performance



Dokument no: CE-300159-A3
Ued for timber items, such as timber studding. Also used for fitting panels, tongued and grooved board, secondary spaced boarding, laths, etc.

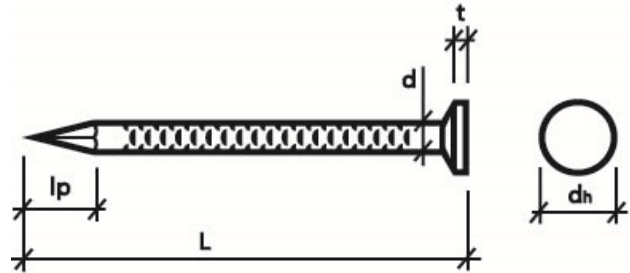
Dimensions:
d: 2,8 - 3,8 mm L: 50-130 mm

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

Angle of strip:
Straight & plastic collated 17°
Straight & plastic collated 21°
Straight & plastic collated 34°



STRAIGHT & PLASTIC COLLATED 17°

DIMENSIONS

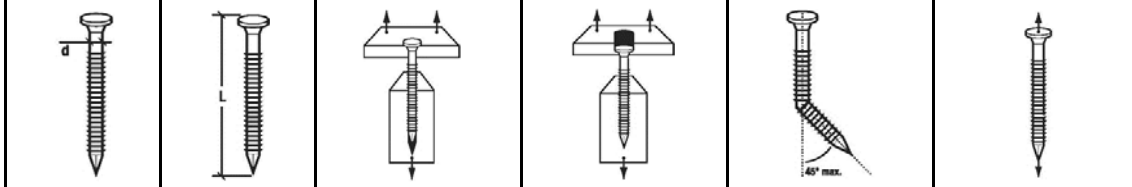
HOT DIP GALVANIZED

Name	Nominal diameter d [mm]	Total length L [mm]	Head diameter d _h [mm]	Head area A _h [mm ²]	Head thickness t [mm]	Point length l _p [mm]	Angle of point [°]
2,8x50	2,8	49,5	6,6	34,2	1,0	3,9	40°
2,8x65		63,5					
2,8x75		73,5					
3,1x90	3,1	88,0	6,6	34,2	1,0	4,3	40°

CHARACTERISTIC LOAD CAPACITY

HOT DIP GALVANIZED

Name	Nominal diameter d [mm]	Total length L [mm]	Withdrawal parameter f _{ax,k} [N/mm ²]*	Head pullthrough parameter f _{head,k} [N/mm ²]*	Yield moment M _{y,k} [Nmm]	Tensile capacity f _{tens,k} [kN]	ITT-rapport
2,8x50	2,8	49,5	3,7	18,5	2700,0	4,3	DK 474099
2,8x65		63,5					
2,8x75		73,5					
3,1x90	3,1	88,0	4,0	17,1	4200,0	4,9	DK 474099



* Värden för utdragshållfasthet $f_{ax,k}$ och genomdragshållfasthet $f_{head,k}$ är baserat på en karakteristisk virkesdensitet $\rho_k = 350 \text{ kg/m}^3$ (C24). Vid beräkningar med andra virkeskvaliteter multipliceras värden med $\rho_k/350$.

PRODUCT IDENTIFICATION

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

ARTICLE NUMBER

69917 69918 69919 69920 324 325 326 327

ROUND JAGGED NAIL

HOT DIP GALVANIZED



Declaration of Performance

STRAIGHT & PLASTIC COLLATED 21°



DIMENSIONS

HOT DIP GALVANIZED

Name	Nominal diameter d [mm]	Total length L [mm]	Head diameter d _h [mm]	Head area A _h [mm ²]	Head thickness t [mm]	Point length l _p [mm]	Angle of point [°]
2,8x50	2,8	49,5	6,6	34,2	1,0	3,9	40°
2,8x65		63,5					
2,8x75		73,5					
3,1x90	3,1	88,0	6,6	34,2	1,0	4,3	40°
3,8x120	3,8	120,0	8,0	50,2	1,0	5,2	40°
3,8x130		130,0					

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Name	Nominal diameter d [mm]	Total length L [mm]	Head diameter d _h [mm]	Head area A _h [mm ²]	Head thickness t [mm]	Point length l _p [mm]	Angle of point [°]
3,8x130	3,8	130,0	8,0	50,2	1,0	5,2	40°

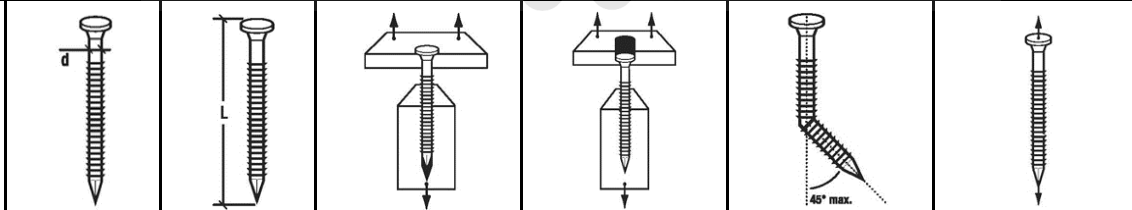
CHARACTERISTIC LOAD CAPACITY

HOT DIP GALVANIZED

Name	Nominal diameter d [mm]	Total length L [mm]	Withdrawal parameter f _{ax,k} [N/mm ²]*	Head pullthrough parameter f _{head,k} [N/mm ²]*	Yield moment M _{y,k} [Nmm]	Tensile capacity f _{tens,k} [kN]	ITT-rapport
2,8x50	2,8	49,5	3,7	18,5	2700,0	4,3	DK 474099
2,8x65		63,5					
2,8x75		73,5					
3,1x90	3,1	88,0	4,0	17,1	4200,0	4,9	DK 474099
3,8x120	3,8	120,0	4,1	20,3	6976,0	6,1	30-9836/9
3,8x130		130,0					

VARMFÖRZINKAD

Name	Nominal diameter d [mm]	Total length L [mm]	Withdrawal parameter f _{ax,k} [N/mm ²]*	Head pullthrough parameter f _{head,k} [N/mm ²]*	Yield moment M _{y,k} [Nmm]	Tensile capacity f _{tens,k} [kN]	ITT-rapport
3,8X130	3,8	130,0	4,1	20,3	6976,0	6,1	30-9836/9



* 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 $\rho_k/350$.

PRODUCT IDENTIFICATION

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

ARTICLE NUMBER

69921 69922 69923 69924 70366 70367 311 312 313 314 70797

ROUND JAGGED NAIL

HOT DIP GALVANIZED



Declaration of Performance

STRAIGHT & PLASTIC COLLATED 34°



DIMENSIONS

HOT DIP GALVANIZED							
Name	Nominal diameter d [mm]	Total length L [mm]	Head diameter d _h [mm]	Head area A _h [mm ²]	Head thickness t [mm]	Point length l _p [mm]	Angle of point [°]
2,8x75	2,8	73,5	6,6	34,2	1,0	3,9	40°
3,1x90	3,1	88,0	6,6	34,2	1,0	4,3	40°

CHARACTERISTIC LOAD CAPACITY

HOT DIP GALVANIZED							
Name	Nominal diameter d [mm]	Total length L [mm]	Withdrawal parameter f _{ax,k} [N/mm ²]*	Head pullthrough parameter f _{head,k} [N/mm ²]*	Yield moment M _{y,k} [Nmm]	Tensile capacity f _{tens,k} [kN]	ITT-rapport
2,8x75	2,8	73,5	3,7	18,5	2700,0	4,3	DK 474099
3,1x90	3,1	88,0	4,0	17,1	4200,0	4,9	DK 474099

* 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 $\rho_k/350$.

PRODUCT IDENTIFICATION

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

ARTICLE NUMBER

Z713475 Z713490

ROUND JAGGED NAIL

HOT DIP GALVANIZED



Declaration of
Performance

The manufacturer declares for:

**Round jagged nail plastic collated strip, hot dip galvanized,
diameter 2,8 - 3,8 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 Type Testing is performed by:

DTI, Danish Technological Institute. Notified body 1235
ITT-rapport DK 474099

Strojirensky Zkusebni Ustav s.p. Notified body 1015
ITT report 30-9836/9
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, type 1. Service class 3.

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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Sweden