

# RING SHANK/ ROUND NAIL D-HEAD, COLLATED



Declaration of  
Performance

BRIGHT / ELECTRO GALVANIZED / HOT DIP GALVANIZED



**Dokument no:** CE-3003651-A1  
Used for fix boarding, panels and secondary spaced boarding to a timber base

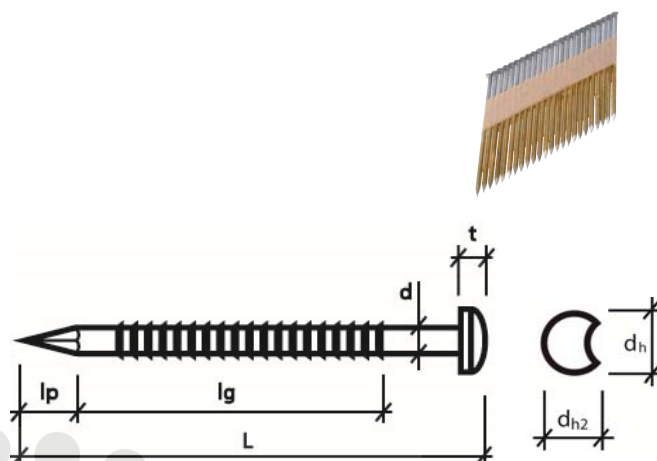
**Dimensions:**  
d: 2,8 - 3,1 mm L: 50 - 90 mm

**Material:**  
EN ISO 16120-2

Characteristic tensile strength of wire ( $f_u$ ) in acc. with EN 10218-1, min. 600 N/mm<sup>2</sup>

**Treatment:**  
Bright  
Electro galvanized - min. 12  $\mu$ m  
Hot dip galvanized - min. 50  $\mu$ m

**Angle of strip:**  
Straight & papercollated 34°



## STRAIGHT & PAPER COLLATED 34°

### DIMENSIONS

#### BRIGHT

Name	Nominal diameter d [mm]	Total length L [mm]	Threaded length l <sub>g</sub> [mm]*	Head diameter d <sub>h</sub> [mm]	Heau ddiameter d <sub>h2</sub> [mm]	Head thickness t [mm]	Point length l <sub>p</sub> [mm]	Angle of point [°]
2,8x75	2,8	75,0	60,0	6,8	5,0	1,7	3,1	40°
3,1x90*	3,1	90,0	-	7,0	5,3	1,9	3,5	40°

#### ELECTRO GALVANIZED

Name	Nominal diameter d [mm]	Total length L [mm]	Threaded length l <sub>g</sub> [mm]*	Head diameter d <sub>h</sub> [mm]	Heau ddiameter d <sub>h2</sub> [mm]	Head thickness t [mm]	Point length l <sub>p</sub> [mm]	Angle of point [°]
2,8x60	2,8	60,0	40,0	6,8	5,0	1,7	3,1	40°

#### HOT DIP GALVANIZED

Name	Nominal diameter d [mm]	Total length L [mm]	Threaded length l <sub>g</sub> [mm]*	Head diameter d <sub>h</sub> [mm]	Heau ddiameter d <sub>h2</sub> [mm]	Head thickness t [mm]	Point length l <sub>p</sub> [mm]	Angle of point [°]
2,8x50	2,8	50,0	35,0	6,8	5,0	1,7	3,1	40°
2,8x65		65,0	50,0					
2,8x75		75,0	60,0					
3,1x90	3,1	90,0	70,0	7,0	5,3	1,9	3,5	40°

\*Dimension have a round smooth shank

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## CHARACTERISTIC LOAD CAPACITY

BRIGHT							
Name	Nominal diameter d [mm]	Total length L [mm]	Withdrawal parameter $f_{ax,k}$ [N/mm <sup>2</sup> ]*	Head pull-through parameter $f_{head,k}$ [N/mm <sup>2</sup> ]*	Yield moment $M_{y,k}$ [Nmm]	Tensile capacity $f_{tens,k}$ [kN]	ITT report
2,8x75	2,8	75,0	7,8	22,9	3218	3,1	E-30-20105-13
3,1x90*	3,1	90,0	2,1	NPD*	4687	4,4	E-30-20106-13
ELECTRO GALVANIZED							
Name	Nominal diameter d [mm]	Total length L [mm]	Withdrawal parameter $f_{ax,k}$ [N/mm <sup>2</sup> ]*	Head pull-through parameter $f_{head,k}$ [N/mm <sup>2</sup> ]*	Yield moment $M_{y,k}$ [Nmm]	Tensile capacity $f_{tens,k}$ [kN]	ITT report
2,8x60	2,8	60,0	7,8	22,9	3218	3,1	E-30-20105-13
HOT DIP GALVANIZED							
Name	Nominal diameter d [mm]	Total length L [mm]	Withdrawal parameter $f_{ax,k}$ [N/mm <sup>2</sup> ]*	Head pull-through parameter $f_{head,k}$ [N/mm <sup>2</sup> ]*	Yield moment $M_{y,k}$ [Nmm]	Tensile capacity $f_{tens,k}$ [kN]	ITT report
2,8x50	2,8	50,0	7,8	22,9	3218	3,1	E-30-20105-13
2,8x65		65,0					
2,8x75		75,0					
3,1x90	3,1	90,0	7,1	NPD*	4957	3,1	E-30-20110-13

\* 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/m<sup>3</sup> (C24).

## PRODUCT IDENTIFICATION

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

### ARTICLE NUMBER (BRIGHT)

70428    70429    71249

### ARTICLE NUMBER (HDG)

Z713850    Z713865    Z713875    Z713890

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The manufacturer declares for:

**Round / ring shank nail, bright / electro galvanized / hot dip galvanized, papercollated strip, diameter 2,8 up to 3,1 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  
Strojirensky Zkusebni Ustav s.p. Notified body 1015  
E-30-20105-13  
E-30-20106-13  
E-30-20110-13
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.

**Bright, Service class 1.**

**Electro galvanized - 12 µm, type1, Service class 2.**

**Hot dip galvanized - 50 µm, type1, 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 2013-04-03, revised 2014-05-14*

A handwritten signature in blue ink, appearing to read "Claes Arnesson".

Head of Operation, Claes Arnesson



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