

# RING SHANK/ ROUND NAIL D-HEAD, COLLATED



Declaration of  
Performance

BRIGHT / HOT DIP GALVANIZED



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

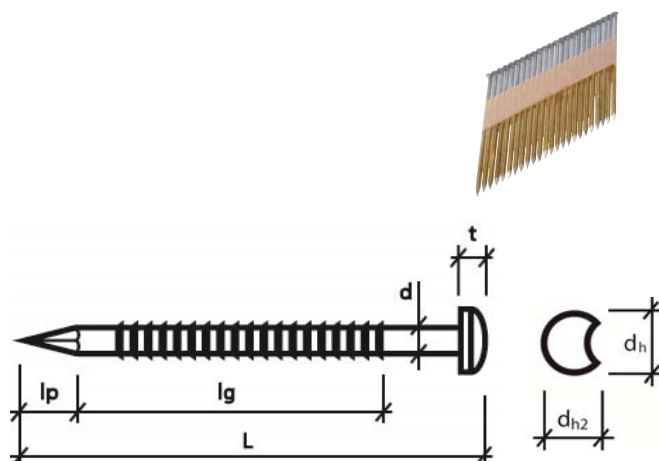
**Dimensions:**  
d: 2,8 - 3,1 mm L: 50 - 90 mm

**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  
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°
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
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). 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 (BRIGHT)

70428    70429

### ARTICLE NUMBER (HDG)

Z713850    Z713865    Z713875    Z713890

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The manufacturer declares for:

**Round / ring shank nail, bright / 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.**

**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*

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

.....  
Head of Operation, Claes Arnesson



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