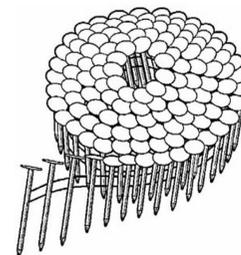


# DECLARATION OF PERFORMANCE

## Wire Collated Roofing nails Round shank – Hot Dip Galvanized



**Document No:** CE\_DOP\_NCR\_LHD\_01  
for structural timber products

**Coil information:**  
Wire collated 16°, Roofing Nails

**Finishing information:**  
Hot Dip Galvanized – Z350 **for Service Class 1, 2, 3 – according to EN 1995 – 1 – 1**

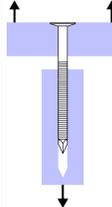
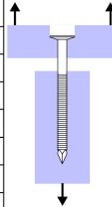
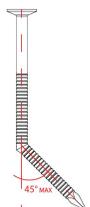
**Nail Dimensions:**  
Diameter: 3,0 mm  
Length: from 19 to 65 mm

**Properties of the material used:**  
- non alloy wire rod in accordance with EN 10016-1 to 4  
- tensile strength in accordance with EN 10218-1, min. 700 N/mm<sup>2</sup>



**The manufacturer declares for**  
**Smooth shank Roofing nails, 16° wire collated, 3,0 mm:**

- a) That the product has been manufactured in accordance with EN 14592:2008+A1:2012 "Timber Structures – Dowel-type fasteners – Requirements".
- b) Initial Type Testing has been performed to identify and confirm essential characteristic values in accordance with table ZA.1 in EN 14592. Those characteristic values are indicated together with the CE mark on product labels and in the table here below.
- c) Initial Type Testing was performed by VHT notified body 1503  
ITT Report No: PB-641-12-ro-3.0hd-130307-La
- d) Assessment and verification of constancy of performance is in compliance with System 3.
- e) Any and all of the nails covered by this Declaration of Performance are identical to the nails that the ITTs were originally issued for. Neither the geometrical specification, raw wire or production process have undergone any changes that would affect the relevant properties of the nail according to 14592:2008+A1:2012, e.g. characteristic withdrawal parameter  $f_{ax,k}$ , head pull-through parameter  $f_{head,k}$ , characteristic yield moment  $M_{y,k}$  or corrosion protection as declared in the first place.

ARTICLE	NOMINAL DIAMETER d (mm)	NOMINAL LENGTH L (mm)	HEAD AREA A <sub>h</sub> (mm <sup>2</sup> )		Withdrawal Parameter		Head Pull Trough	
					$f_{ax,k}$ (N/mm <sup>2</sup> ) *		Parameter $f_{head,k}$ (N/mm <sup>2</sup> ) *	
					EN 1995 – 1 – 1	EN 1995 – 1 – 1	EN 1995 – 1 – 1	
NCR30/19LHD	3,0	19	63,6		2,45	8,58	3130	
NCR30/25LHD		25	63,6		2,45	8,58	4477	
NCR30/30LHD		30	63,6		2,45	8,58	4477	
NCR30/35LHD		35	63,6		2,45	8,58	4477	
NCR30/45LHD		45	63,6		2,45	8,58	4477	
NCR30/55LHD		55	63,6		2,45	8,58	4477	
NCR30/65LHD		65	63,6		2,45	8,58	4477	

\*calculated in wood with a characteristic density of 350 kg/m<sup>3</sup>

2013 July 1st, Casalecchio di Reno

Marketing Manager, Valentina Ratti

