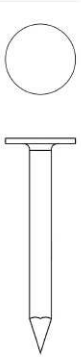
TRADEX Group
wires in motion

DECLARATION OF PERFORMANCE

Loose Roofing nails
Round shank – Hot Dip Galvanized



Document No: **CE_DOP_NLR_LHD_01**
for structural timber products

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

Nail Dimensions:
Diameter: from 2,1 to 3,0 mm
Length: from 20 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/mm²

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 fax,k, head pull-through parameter fhead,k, characteristic yield moment My,k or corrosion protection as declared in the first place.

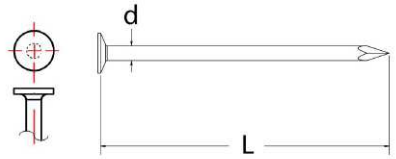
The manufacturer declares for
Loose Roofing nails from 2,1 diameter to 3,0 mm:

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-2.1hd-130327-La
ITT Report No: PB-641-12-ro-2.6hd-130327-La
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.



CE

ARTICLE	NOMINAL DIAMETER d (mm)	NOMINAL LENGTH L (mm)	HEAD AREA A_h (mm²)		Withdrawal Parameter $f_{ax,k}$ (N/mm²) *		Head Pull Trough Parameter $f_{head,k}$ (N/mm²) *		Yield Moment $M_{y,k}$ (Nmm)
					EN 1995 – 1 – 1		EN 1995 – 1 – 1		EN 1995 – 1 – 1
NLR21/20LHD	2,1	20	33,2		2,45		8,58		2206
NLR26/20LHD	2,6	20	50,3		2,45		8,58		3674
NLR26/25LHD		25	50,3		2,45		8,58		3674
NLR26/35LHD		35	50,3		2,45		8,58		3674
NLR30/25LHD	3,0	25	63,6		2,45		8,58		4477
NLR30/30LHD		30	63,6		2,45		8,58		4477
NLR30/35LHD		35	63,6		2,45		8,58		4477
NLR30/45LHD		45	63,6		2,45		8,58		4477
NLR30/55LHD		55	63,6		2,45		8,58		4477
NLR30/65LHD		65	63,6		2,45		8,58		4477

**calculated in wood with a characteristic density of 350 kg/m³*

2013 July 1st, Casalecchio di Reno

Marketing Manager, Valentina Ratti