



TRADEX Group
wires in motion

DECLARATION OF PERFORMANCE

Loose nails Square shank – Hot Dip Galvanized



Document No: CE_DOP_NLS_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 4,8 mm
Length: from 40 to 150 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 $f_{ax,k}$, head pull-through parameter $f_{head,k}$, characteristic yield moment $M_{y,k}$ or corrosion protection as declared in the first place.

The manufacturer declares for
Loose nails in Square shank from 2,1 diameter to 4,8 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-sq-2,1hd-130628-La

ITT Report No: PB-641-12-sq-2.3hd-130322-La

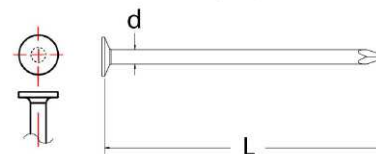
ITT Report No: PB-641-12-sq-2.6hd-130322-La

ITT Report No: PB-641-12-sq-3.0hd-130307-La

ITT Report No: PB-641-12-sq-3.4hd-130307-La

ITT Report No: PB-641-12-gr-4.8hd-130627-La

d) Assessment and verification of constancy of performance is in compliance with System 3.



ARTICLE	NOMINAL DIAMETER d (mm)	NOMINAL LENGTH L (mm)	HEAD AREA A _h (mm ²)	Withdrawal Parameter f _{ax,k} (N/mm ²) *	Head Pull Trough Parameter f _{head,k} (N/mm ²) *	Yield Moment M _{y,k} (Nmm)
NLS21/40LHD	2,1	40	18,1	EN 1995 – 1 – 1	EN 1995 – 1 – 1	EN 1995 – 1 – 1
NLS21/50LHD		50	18,1	2,45	8,58	2016
NLS23/55LHD	2,3	55	23,8	2,45	8,58	2016
NLS26/60LHD	2,6	60	28,3	2,45	8,58	3501
NLS26/65LHD		65	28,3	2,45	8,58	4387
NLS30/65LHD	3,0	65	37,4	2,45	8,58	4387
NLS30/75LHD		75	37,4	2,45	8,58	6612
NLS30/90LHD		90	37,4	2,45	8,58	6612
NLS34/95LHD	3,4	95	47,8	2,45	8,58	6612
NLS34/100LHD		100	47,8	2,45	8,58	9169
NLS48/150LHD	4,8	150	86,6	2,45	8,58	9169
						16876

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

2013 July 1st, Casalecchio di Reno

Marketing Manager, Valentina Ratti

Valentina Ratti