

# Declaration of Performance

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## Square Twist Nails



Material - Carbon Steel

Head Type - Flat

Nail Diameter (mm) - 3.75

We hereby declare these designated products have performed initial type testing under system 3, Annex V of the regulation (EU) no. 305/2011 (Construction Products Regulation), with the reference to the harmonised European standard (hEN) BS EN 14592:2008+A1:2012 (Timber structures - Dowel type fasteners - Requirements) for screws intended for the use in "load bearing timber structures" and produced the calculation/test reports as attached;

The initial type testing has been carried out by independent notified body;  
Strojirensky Zkusebni Ustav, NB # 1015, Hudcova 424/56B, 621 00 Brno-Medlánky, Czechia

Certificate Number: E30-20420-16

Test Report Number: No. 30-10775/6

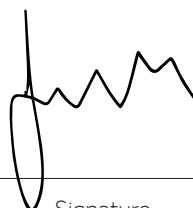
Factory Process Control (FPC) has been established by the factory.

This declaration is valid until there is a significant change in the product and declared characteristics. ie. raw material or change in production process.

This declaration is the responsibility of the importer ; T.I.Midwood & Co. Ltd.

Simon Midwood

Managing Director



TIMCO House  
2016

2016

Name

Position

Signature

Location & Date

Test Year

# Declaration of Performance

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## Square Twist Nails Flat Head - Ø3.75mm

### Material & Geometry

Material	Carbon Steel
Diameter (mm)	3.75
Head area (mm <sup>2</sup> )	48.05
Point length (mm)	5.09

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 45° [Nmm] in acc. to EN 409	5489
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	3.23
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	2.4
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 400\text{kg/m}^3$	26.5
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	6.62

### Durability

Coating (Finish)	Sherardised coating
Corrosion protection	Service Class 2 acc. to EN 1995-1-1