

Declaration of Performance

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Annular Ringshank Nails



Material - Carbon Steel

Head Type - Flat

Nail Diameter (mm) - 2.65, 3.35, 3.75, 5.00

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: E-30-20417-16, E-30-20419-16, E-30-20420-16, E-30-20422-16

Test Report Number: No. 30-10775/3, 30-10775/5, 30-10775/6, 30-10775/8

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

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Annular Ringshank Nails Flat Head - Ø2.65mm

Material & Geometry

Material	Carbon Steel
Diameter (mm)	2.65
Head area (mm ²)	32.60
Point length (mm)	3.61

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 45° [Nmm] in acc. to EN 409	2591
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	9.58
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	4.53
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 400\text{kg/m}^3$	27.62
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	2.78

Durability

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

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Annular Ringshank Nails

Flat Head - Ø3.35mm

Material & Geometry

Material	Carbon Steel
Diameter (mm)	3.35
Head area (mm ²)	47.83
Point length (mm)	5.04

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 45° [Nmm] in acc. to EN 409	5499
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	7.52
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	4.60
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 380\text{kg/m}^3$	25.22
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	5.13

Durability

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

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Annular Ringshank Nails

Flat Head - Ø3.75mm

Material & Geometry

Material	Carbon Steel
Diameter (mm)	3.75
Head area (mm ²)	50.97
Point length (mm)	5.09

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 45° [Nmm] in acc. to EN 409	7966
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	7.69
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	4.71
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 380\text{kg/m}^3$	26.43
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	6.69

Durability

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

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Annular Ringshank Nails

Flat Head - Ø5.00mm

Material & Geometry

Material	Carbon Steel
Diameter (mm)	5.00
Head area (mm ²)	81.46
Point length (mm)	6.91

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 45° [Nmm] in acc. to EN 409	14078
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	9.08
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	4.87
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 380\text{kg/m}^3$	22.54
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	10.02

Durability

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