

Declaration of Performance

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Timber Screws



Material - Carbon Steel (C1022)

Head Type - Hex

Screw Diameter (mm) - 6.0, 6.7, 8.0, 10.0

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: CPR-J-01418-21, E-30-20438-12, E-30-20312-15, E-30-20313-15

Test Report Number: No. 30-15597/JP, 30-9767/3, 30-10516/1, 30-10516/2

Factory Process Control (FPC) has been established by the factory and independently audited by TUV Rheinland UK in accordance with ISO9001.

This declaration of conformity 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
2021

2012 / 2015 / 2021

Name

Position

Signature

Location & Date

Test Years

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Timber Screws

Hex Head - Ø6.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	6.0
Fixed washer diameter (mm)	12.21
Inner thread diameter (mm)	5.54

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 12° [Nmm] (thread section) in acc. to EN 409	18.248
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	16.78
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	13.72
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	30.32
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	18.80
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	4.15

Durability

Coating (Finish)	Green Organic & Silver Organic
Corrosion protection	Service Class 3 acc. to EN 1995-1-1

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Timber Screws

Hex Head - Ø6.7mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	6.7
Fixed washer diameter (mm)	12.00
Inner thread diameter (mm)	4.40

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 11° [Nmm] (thread section) in acc. to EN 409	16444
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 415\text{kg/m}^3$	18.49
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 415\text{kg/m}^3$	7.86
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 415\text{kg/m}^3$	28.08
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	19.34
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	3.08

Durability

Coating (Finish)	Green Organic & Silver Organic
Corrosion protection	Service Class 3 acc. to EN 1995-1-1

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Timber Screws

Hex Head - Ø8.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	8.0
Fixed washer diameter (mm)	14.55
Inner thread diameter (mm)	5.26

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 10° [Nmm] (thread section) in acc. to EN 409	30012
Characteristic yield moment $M_{y,k}$ at 10° [Nmm] (smooth section) in acc. to EN 409	45340
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 380\text{kg/m}^3$	15.67
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 380\text{kg/m}^3$	11.41
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood $\rho_k = 415\text{kg/m}^3$	32.59
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	29.13
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	3.17

Durability

Coating (Finish)	Green Organic & Silver Organic
Corrosion protection	Service Class 3 acc. to EN 1995-1-1

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Timber Screws

Hex Head - Ø10.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	10.0
Fixed washer diameter (mm)	18.11
Inner thread diameter (mm)	6.56

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 11° [Nmm] (thread section) in acc. to EN 409	48975
Characteristic yield moment $M_{y,k}$ at 11° [Nmm] (smooth section) in acc. to EN 409	68343
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 380\text{kg/m}^3$	13.94
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 380\text{kg/m}^3$	9.41
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 400\text{kg/m}^3$	29.42
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	40.98
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	4.45

Durability

Coating (Finish)	Green Organic & Silver Organic
Corrosion protection	Service Class 3 acc. to EN 1995-1-1