

Declaration of Performance

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Timber Screws



Material - Carbon Steel (C1022)

Head Type - Hex

Screw Diameter (mm) - 6.0, 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, CPR-J-01938-22, CPR-J-01939-22

Test Report Number: No. 30-15597/JP, 30-16221/1/JP, 30-16221/2/JP

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 2022	2021 / 2022
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	18248
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)	Silver Organic
Corrosion protection	Service Class 2 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)	14.34
Inner thread diameter (mm)	5.09

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 10° [Nmm] (thread section) in acc. to EN 409	21142
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	15.44
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	13.60
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	26.04
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	24.68
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	4.73

Durability

Coating (Finish)	Silver Organic
Corrosion protection	Service Class 2 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)	17.85
Inner thread diameter (mm)	6.57

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 9° [Nmm] (thread section) in acc. to EN 409	46363
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	13.64
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	12.18
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	22.07
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	42.25
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	7.23

Durability

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