

Declaration of Performance

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Solo Woodscrews



Material - Carbon Steel (C1022)

Head Type - Double Countersunk

Screw Diameter (mm) - 3.5, 4.0, 5.0

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: E-30-20080-18 to E-30-20082-18

Test Report Number: No. 30-11240/1 to No. 30-11240/3

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
2013

2013

Name

Position

Signature

Location & Date

Test Year

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Solo Woodscrews

Double Countersunk Head - Ø3.5mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	3.5
Head diameter (mm)	6.65
Inner thread diameter (mm)	2.20

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 28° [Nmm] (thread section) in acc. to EN 409	3127
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	19.04
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	14.47
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	26.28
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	4.49
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	3.22

Durability

Coating (Finish)	Zinc or Yellow coating
Corrosion protection	Service Class 1 acc. to EN 1995-1-1

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Double Countersunk Head - Ø4.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	4.0
Head diameter (mm)	7.83
Inner thread diameter (mm)	2.43

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 27° [Nmm] (thread section) in acc. to EN 409	3722
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	19.80
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	13.01
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	24.29
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	5.76
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	2.53

Durability

Coating (Finish)	Zinc or Yellow coating
Corrosion protection	Service Class 1 acc. to EN 1995-1-1

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Solo Woodscrews

Double Countersunk Head - Ø5.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	5.0
Head diameter (mm)	9.64
Inner thread diameter (mm)	3.10

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 24° [Nmm] (thread section) in acc. to EN 409	6846
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	18.28
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	13.00
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	23.83
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	8.47
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	3.60

Durability

Coating (Finish)	Zinc or Yellow coating
Corrosion protection	Service Class 1 acc. to EN 1995-1-1