Date: 30/11/2022
v1

Declaration of Performance

Solo Woodscrews

CE

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: CPR-J-01587-22 to CPR-J-01589-22
Test Report Number: No. 30-16197/1/JP to No. 30-16197/3/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	2022
Name	Position	Signature	Location & Date	Test Year

Declaration of Performance

Solo Woodscrews

Double Countersunk Head - Ø3.5mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	3.5
Head diameter (mm)	6.90
Inner thread diameter (mm)	2.29

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 18° [Nmm] (thread section) in acc. to EN 409	2144
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$	18.19
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$	15.68
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood $\rho_k = 350 kg/m^3$	25.33
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	4.20
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450 kg/m^3$	4.81

Durability

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

Declaration of Performance

Solo Woodscrews

Double Countersunk Head - Ø4.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	4.0
Head diameter (mm)	7.98
Inner thread diameter (mm)	2.54

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 17° [Nmm] (thread section) in acc. to EN 409	3483
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 350kg/m³	17.57
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 350kg/m³	13.92
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	21.96
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	6.19
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	4.39

Durability

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

Declaration of Performance

Solo Woodscrews

Double Countersunk Head - Ø5.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	5.0
Head diameter (mm)	9.59
Inner thread diameter (mm)	3.10

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 14° [Nmm] (thread section) in acc. to EN 409	6748
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 350kg/m³	16.96
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 350kg/m³	13.15
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	19.48
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	9.38
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	5.26

Durability

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