Date: 31/07/2024
v2

Declaration of Performance

Collated Solo Woodscrews

CE

Material - Carbon Steel (C1022)

Head Type - Double Countersunk

Screw Diameter (mm) - 4.2, 4.5

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

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

Declaration of Performance

Collated Solo Wood Screws

Double Countersunk Head - Ø4.2mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	4.2
Head diameter (mm)	8.2
Inner thread diameter (mm)	2.75

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 16° [Nmm] (thread section) in acc. to EN 409	5346
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	18.02
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	13.03
Characteristic head pull-through parameter $f_{head,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	20.28
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	7.85
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	5.36

Durability

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

Date: 31/07/2024

Declaration of Performance

Collated Solo Wood Screws

Double Countersunk Head - Ø4.2mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	4.5
Head diameter (mm)	8.3
Inner thread diameter (mm)	2.95

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 15° [Nmm] (thread section) in acc. to EN 409	5610
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	18.22
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	13.08
Characteristic head pull-through parameter $f_{head,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	21.50
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	8.11
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	4.75

Durability

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