Date: 08/03/2023
v2

Declaration of Performance

C2 Strong-Fix Premium Screws

CE

Material - Carbon Steel (C1022)

Head Type - Double Countersunk

Screw Diameter (mm) - 3.5, 4.0, 4.5, 5.0, 6.0

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-00612-22 to CPR-J-00616-22
Test Report Number: No. 30-15985/1/JP to 30-15985/5/JP

Factory Process Control (FPC) has been established by the factory.

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

C2 Strong-Fix Premium Screw

Double Countersunk Head - Ø3.5mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	3.5
Head diameter (mm)	6.59
Inner thread diameter (mm)	2.22

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 18° [Nmm] (thread section) in acc. to EN 409	2094
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	14.45
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	11.34
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	26.85
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	4.71
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	5.69

Durability

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

Declaration of Performance

C2 Strong-Fix Premium Screw

Double Countersunk Head - Ø4.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	4.0
Head diameter (mm)	7.82
Inner thread diameter (mm)	2.45

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 17° [Nmm] (thread section) in acc. to EN 409	3021
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	16.81
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	13.55
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	23.57
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	5.57
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	5.44

Durability

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

Declaration of Performance

C2 Strong-Fix Premium Screw

Double Countersunk Head - Ø4.5mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	4.5
Head diameter (mm)	8.61
Inner thread diameter (mm)	2.73

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 15° [Nmm] (thread section) in acc. to EN 409	4326
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	16.51
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	14.17
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	23.30
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	7.07
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	4.57

Durability

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

Declaration of Performance

C2 Strong-Fix Premium Screw

Double Countersunk Head - Ø5.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	5.0
Head diameter (mm)	9.70
Inner thread diameter (mm)	3.05

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 14° [Nmm] (thread section) in acc. to EN 409	6447
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	15.84
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	13.11
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	21.60
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	9.63
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	4.04

Durability

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

Declaration of Performance

C2 Strong-Fix Premium Screw

Double Countersunk Head - Ø6.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	6.0
Head diameter (mm)	11.80
Inner thread diameter (mm)	3.71

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 12° [Nmm] (thread section) in acc. to EN 409	10618
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	15.05
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	12.08
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	19.78
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	13.32
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	3.74

Durability

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