Date: 20/05/22

v1

Declaration of Performance

Twin-Thread Woodscrews

CE

Material - Carbon Steel (C1018 & C1022)

Head Type - Double Countersunk

Screw Gauge (imp) - 4, 6, 7, 8, 10, 12

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-00028-22 to CPR-J-00033-22
Test Report Number: No. 30-15702/1/JP to No. 30-15702/6/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

Twin-Thread Woodscrews

Double Countersunk Head - 4g

Material & Geometry

Material	Carbon Steel (C1018 & C1022)
Screw gauge (imp)	4
Head diameter (mm)	5.25
Inner thread diameter (mm)	2.14

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 20° [Nmm] (thread section) in acc. to EN 409	1439
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	17.88
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	13.33
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	28.09
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	3.57
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	3.06

Durability

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

Declaration of Performance

Twin-Thread Woodscrews

Double Countersunk Head - 6g

Material & Geometry

Material	Carbon Steel (C1018 & C1022)
Screw gauge (imp)	6
Head diameter (mm)	6.59
Inner thread diameter (mm)	2.46

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 18° [Nmm] (thread section) in acc. to EN 409	2909
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$	17.78
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$	12.81
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood $\rho_k = 350 kg/m^3$	26.74
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	5.04
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450 kg/m^3$	1.92

Durability

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

Declaration of Performance

Twin-Thread Woodscrews

Double Countersunk Head - 7g

Material & Geometry

Material	Carbon Steel (C1018 & C1022)
Screw gauge (imp)	7
Head diameter (mm)	7.44
Inner thread diameter (mm)	2.52

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 17° [Nmm] (thread section) in acc. to EN 409	3181
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	16.77
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	12.94
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	26.15
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	5.36
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	2.63

Durability

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

Declaration of Performance

Twin-Thread Woodscrews

Double Countersunk Head - 8g

Material & Geometry

Material	Carbon Steel (C1018 & C1022)
Screw gauge (imp)	8
Head diameter (mm)	8.07
Inner thread diameter (mm)	2.63

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 16° [Nmm] (thread section) in acc. to EN 409	4418
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	16.02
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	13.05
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	25.64
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	6.66
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	1.77

Durability

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

Declaration of Performance

Twin-Thread Woodscrews

Double Countersunk Head - 10g

Material & Geometry

Material	Carbon Steel (C1018 & C1022)
Screw gauge (imp)	10
Head diameter (mm)	9.30
Inner thread diameter (mm)	2.96

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 14° [Nmm] (thread section) in acc. to EN 409	6187
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$	15.98
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$	12.33
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood $\rho_k = 350 kg/m^3$	23.66
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	8.70
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450 kg/m^3$	2.15

Durability

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

Declaration of Performance

Twin-Thread Woodscrews

Double Countersunk Head - 12g

Material & Geometry

Material	Carbon Steel (C1018 & C1022)
Screw gauge (imp)	12
Head diameter (mm)	10.68
Inner thread diameter (mm)	4.19

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 13° [Nmm] (thread section) in acc. to EN 409	9141
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$	15.28
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$	12.75
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood $\rho_k = 350 kg/m^3$	21.42
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	11.35
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450 kg/m^3$	2.07

Durability

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