Date: 22/03/2022
v1

Declaration of Performance

Twin-Thread Woodscrews

CE

Material - Carbon Steel (C1018 & C1022)

Head Type - Round

Screw Gauge (imp) - 4, 6, 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: E-30-20083-13 to E-30-20088-13
Test Report Number: No. 30-9807/1 to No. 30-9807/6

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 2013	2013
Name	Position	Signature	Location & Date	Test Year

Declaration of Performance

Twin-Thread Woodscrews

Round Head - 4g

Material & Geometry

Material	Carbon Steel (C1018 & C1022)
Screw gauge (imp)	4
Head diameter (mm)	4.92
Inner thread diameter (mm)	1.70

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 20° [Nmm] (thread section) in acc. to EN 409	1273
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 470kg/m³	20.52
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 470kg/m³	9.88
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 410kg/m³	40.46
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	3.24
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	4.31

Durability

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

Declaration of Performance

Twin-Thread Woodscrews

Round Head - 6g

Material & Geometry

Material	Carbon Steel (C1018 & C1022)
Screw gauge (imp)	6
Head diameter (mm)	6.55
Inner thread diameter (mm)	2.30

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 18° [Nmm] (thread section) in acc. to EN 409	2654
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 470kg/m³	18.91
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 470kg/m³	13.80
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 420kg/m³	33.77
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	4.53
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	3.02

Durability

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

Declaration of Performance

Twin-Thread Woodscrews

Round Head - 8g

Material & Geometry

Material	Carbon Steel (C1018 & C1022)
Screw gauge (imp)	8
Head diameter (mm)	7.97
Inner thread diameter (mm)	2.70

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 17° [Nmm] (thread section) in acc. to EN 409	4860
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 470kg/m³	19.09
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 470kg/m³	10.45
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 415kg/m³	27.06
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	7.76
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	2.75

Durability

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

Declaration of Performance

Twin-Thread Woodscrews

Round Head - 10g

Material & Geometry

Material	Carbon Steel (C1018 & C1022)
Screw gauge (imp)	10
Head diameter (mm)	9.18
Inner thread diameter (mm)	3.25

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 14° [Nmm] (thread section) in acc. to EN 409	7657
Characteristic yield moment $M_{y,k}$ at 14° [Nmm] (smooth section) in acc. to EN 409	10044
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 470kg/m³	20.62
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 470kg/m³	11.97
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 425kg/m³	27.06
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	8.89
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	2.32

Durability

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

Declaration of Performance

Twin-Thread Woodscrews

Round Head - 12g

Material & Geometry

Material	Carbon Steel (C1018 & C1022)
Screw gauge (imp)	12
Head diameter (mm)	10.52
Inner thread diameter (mm)	3.70

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 12° [Nmm] (thread section) in acc. to EN 409	10108
Characteristic yield moment $M_{y,k}$ at 12° [Nmm] (smooth section) in acc. to EN 409	14393
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 470kg/m³	19.29
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 470kg/m³	14.21
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 425kg/m³	26.90
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	11.52
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	2.41

Durability

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