Date: 22/03/2022
v1

Declaration of Performance

Velocity Premium Multi-Use Twist Cut Screws

CE

Material - Carbon Steel (C1022)

Head Type - Double Countersunk

Screw Diameter (mm) - 3.0, 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-01907-21 to CPR-J-01912-21
Test Report Number: No. 30-15699/1/JP to No. 30-15699/6/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 2021	2021
Name	Position	Signature	Location & Date	Test Year

Declaration of Performance

Velocity Premium Multi-Use Twist Cut Screws

Double Countersunk Head - Ø3.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	3.0
Head diameter (mm)	5.76
Inner thread diameter (mm)	2.12

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 20° [Nmm] (thread section) in acc. to EN 409	1963
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	17.14
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	13.67
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	27.20
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	3.74
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	2.43

Durability

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

Declaration of Performance

Velocity Premium Multi-Use Twist Cut Screws

Double Countersunk Head - Ø3.5mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	3.5
Head diameter (mm)	6.78
Inner thread diameter (mm)	2.21

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 18° [Nmm] (thread section) in acc. to EN 409	2412
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	16.55
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	13.14
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	26.84
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	4.63
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	2.60

Durability

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

Declaration of Performance

Velocity Premium Multi-Use Twist Cut Screws

Double Countersunk Head - Ø4.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	4.0
Head diameter (mm)	7.71
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	3775
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	16.25
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	13.28
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	5.47
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	2.01

Durability

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

Declaration of Performance

Velocity Premium Multi-Use Twist Cut Screws

Double Countersunk Head - Ø4.5mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	4.5
Head diameter (mm)	8.76
Inner thread diameter (mm)	2.80

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 15° [Nmm] (thread section) in acc. to EN 409	5194
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	16.17
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	12.10
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	23.99
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	7.05
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	2.43

Durability

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

Declaration of Performance

Velocity Premium Multi-Use Twist Cut Screws

Double Countersunk Head - Ø5.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	5.0
Head diameter (mm)	9.68
Inner thread diameter (mm)	3.12

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 14° [Nmm] (thread section) in acc. to EN 409	5713
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	16.18
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	12.81
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	22.47
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	8.21
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	3.79

Durability

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

Declaration of Performance

Velocity Premium Multi-Use Twist Cut Screws

Double Countersunk Head - Ø6.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	6.0
Head diameter (mm)	11.77
Inner thread diameter (mm)	3.86

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 12° [Nmm] (thread section) in acc. to EN 409	11351
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	15.89
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	12.97
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	21.34
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	13.37
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	4.92

Durability

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