

Declaration of Performance

No. DOP-01-C2-01 / Page 1 of 6

C2 Strong-Fix Premium Screws



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: E-30-20534-14 to E-30-20538-14 Test Report Number: No. 30-10239/1 to No. 30-10239/5

Factory Process Control (FPC) has been established by the factory and independently audited by TUV Rheinland UK in accordance with ISO9001.

This declaration of conformity 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.





Cert No: E-30-20534-14 Test Report No: 30-10239/1

No. DOP-01-C2-01 / Page 2 of 6

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)	6.60
Inner thread diameter (mm)	2.15
Mechanical Strength & Stiffness	
Characteristic yield moment My.k at 18° [Nmm] (thread section) in acc. to EN 409	2468
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 13 with density of wood ρ_k = 400kg/m ³	382 18.10
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 138 with density of wood ρ_k = 400kg/m³	14.02
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood ρ_k = 400kg/m ³	23.31
Characteristic tensile capacity ftens,k [kN] in acc. to EN 1383	4.73
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m ³	3.28

Durability

Coating (Finish) Zinc or Yellow coating



Cert No: E-30-20535-14 Test Report No: 30-10239/2

No. DOP-01-C2-01 / Page 3 of 6

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)	7.70
Inner thread diameter (mm)	2.35
Mechanical Strength & Stiffness	
Characteristic yield moment M _{y,k} at 17° [Nmm] (thread section) in acc. to EN 409	3401
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 13 with density of wood ρ_k = 400kg/m ³	382 17.90
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 138 with density of wood ρ_k = 400kg/m ³	13.09
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood ρ_k = 400kg/m ³	20.28
Characteristic tensile capacity ftens,k [kN] in acc. to EN 1383	6.35
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m ³	4.11

Durability

Coating (Finish) Zinc or Yellow coating



Cert No: E-30-20536-14 Test Report No: 30-10239/3

No. DOP-01-C2-01 / Page 4 of 6

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)	8.70
Inner thread diameter (mm)	2.60
Mechanical Strength & Stiffness	
Characteristic yield moment M _{y,k} at 15° [Nmm] (thread section) in acc. to EN 409	4212
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1 with density of wood ρ_k = 400kg/m ³	382 19.32
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 13 with density of wood ρ_k = 400kg/m³	82 13.41
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood ρ_k = 400kg/m ³	19.82
Characteristic tensile capacity ftens,k [kN] in acc. to EN 1383	7.44
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m ³	3.59

Durability

Coating (Finish) Zinc or Yellow coating



Cert No: E-30-20537-14 Test Report No: 30-10239/4

No. DOP-01-C2-01 / Page 5 of 6

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)	2.95
Mechanical Strength & Stiffness	
Characteristic yield moment M _{y,k} at 14° [Nmm] (thread section) in acc. to EN 409	6220
Characteristic yield moment M _{y,k} at 14° [Nmm] (smooth section) in acc. to EN 409	9715
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 13 with density of wood ρ_k = 400kg/m ³	382 18.65
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 136 with density of wood ρ_k = 400kg/m ³	13.54
Characteristic head pull-through parameter $f_{ens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood ρ_k = 400kg/m ³	20.63
Characteristic tensile capacity ftens,k [kN] in acc. to EN 1383	8.66
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m ³	3.65

Durability

Coating (Finish) Zinc or Yellow coating



Cert No: E-30-20538-14 Test Report No: 30-10239/5

No. DOP-01-C2-01 / Page $6\ of\ 6$

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)	11.65
Inner thread diameter (mm)	3.65
Mechanical Strength & Stiffness	
Characteristic yield moment M _{y,k} at 12° [Nmm] (thread section) in acc. to EN 409	12394
Characteristic yield moment M _{y,k} at 12° [Nmm] (smooth section) in acc. to EN 409	18693
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 13 with density of wood ρ_k = 400kg/m ³	382 17.89
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 13 with density of wood ρ_k = 400kg/m ³	14.10
Characteristic head pull-through parameter $f_{\text{tens,k}}$ [N/mm ²] in acc. to EN 1383 with density of wood ρ_k = 400kg/m ³	24.13
Characteristic tensile capacity ftens,k [kN] in acc. to EN 1383	14.20
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m ³	6.66

Durability

Coating (Finish) Zinc or Yellow coating