

# Declaration of Performance

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## C2 Clamp-Fix Premium Screws



Material - Carbon Steel (C1022)

Head Type - Double Countersunk

Screw Diameter (mm) - 4.0, 4.5, 5.0, 6.0, 8.0

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-01245-21 to CPR-J-01249-21

Test Report Number: 30-15550/1/JZ to 30-15550/5/JZ

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.

Simon Midwood

Managing Director

TIMCO House  
2021

2021

Name

Position

Signature

Location &amp; Date

Test Year

# Declaration of Performance

## C2 Clamp-Fix Premium Screws Double Countersunk Head - Ø4.0mm

### Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	4.0
Head diameter (mm)	7.57
Inner thread diameter (mm)	2.42

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 17° [Nmm] (thread section) in acc. to EN 409	2647
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	16.70
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	13.16
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	26.59
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	5.40
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	5.06

### Durability

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

# Declaration of Performance

## C2 Clamp-Fix Premium Screws Double Countersunk Head - Ø4.5mm

### Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	4.5
Head diameter (mm)	8.79
Inner thread diameter (mm)	2.82

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 15° [Nmm] (thread section) in acc. to EN 409	5768
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	16.31
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	14.27
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	25.56
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	7.31
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	3.66

### Durability

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

# Declaration of Performance

## C2 Clamp-Fix Premium Screws Double Countersunk Head - Ø5.0mm

### Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	5.0
Head diameter (mm)	9.69
Inner thread diameter (mm)	3.08

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 14° [Nmm] (thread section) in acc. to EN 409	7619
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	15.56
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	13.99
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	24.51
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	9.05
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	4.24

### Durability

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

# Declaration of Performance

## C2 Clamp-Fix Premium Screws Double Countersunk Head - Ø6.0mm

### Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	6.0
Head diameter (mm)	11.71
Inner thread diameter (mm)	3.78

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 12° [Nmm] (thread section) in acc. to EN 409	11762
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	15.25
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	13.31
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	23.89
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	13.70
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	3.47

### Durability

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

# Declaration of Performance

## C2 Clamp-Fix Premium Screws Double Countersunk Head - Ø8.0mm

### Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	8.0
Head diameter (mm)	14.39
Inner thread diameter (mm)	5.20

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 10° [Nmm] (thread section) in acc. to EN 409	26345
Characteristic yield moment $M_{y,k}$ at 10° [Nmm] (smooth section) in acc. to EN 409	38671
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	14.40
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	12.39
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	22.29
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	19.77
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	3.65

### Durability

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