

# Declaration of Performance

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## Timber Screws



Material - Carbon Steel (C1022)

Head Type - Wafer

Screw Diameter (mm) - 6.7, 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: E-30-20438-12, E-30-20439-12

Test Report Number: No. 30-9767/3, 30-9767/4

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  
2012

2012

Name

Position

Signature

Location &amp; Date

Test Year

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## Timber Screws

Wafer Head - Ø6.7mm

### Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	6.7
Head diameter (mm)	16.08
Inner thread diameter (mm)	4.40

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 11° [Nmm] (thread section) in acc. to EN 409	16444
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 415\text{kg/m}^3$	18.49
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 415\text{kg/m}^3$	7.86
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 415\text{kg/m}^3$	27.41
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	19.34
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	3.08

### Durability

Coating (Finish)	Green Organic
Corrosion protection	Service Class 3 acc. to EN 1995-1-1

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## Timber Screws

Wafer Head - Ø8.0mm

### Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	8.0
Head diameter (mm)	20.84
Inner thread diameter (mm)	5.60

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 10° [Nmm] (thread section) in acc. to EN 409	27926
Characteristic yield moment $M_{y,k}$ at 10° [Nmm] (smooth section) in acc. to EN 409	36747
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 480\text{kg/m}^3$	17.60
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 480\text{kg/m}^3$	10.92
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 495\text{kg/m}^3$	28.18
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	18.75
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	2.65

### Durability

Coating (Finish)	Green Organic
Corrosion protection	Service Class 3 acc. to EN 1995-1-1