

# Declaration of Performance

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## Coach Screws



Material - Carbon Steel

Head Type - Hex

Screw Diameter (mm) - 6.0, 8.0, 10.0, 12.0

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;

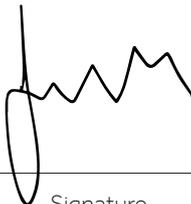
The initial type testing has been carried out by independent notified body;  
Strojirensky Zkusebni Ustav, NB # 1015, Hudcova 424/56B, 621 00 Brno-Medlánky, Czechia

Certificate Number: CPR-J-01251-22 to CPR-J-01254-22  
Test Report Number: No. 30-16127/1/JP to 30-16127/4/JP

Factory Process Control (FPC) has been established by the factory.

This declaration 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 2013	2013
Name	Position	Signature	Location & Date	Test Year

# Declaration of Performance

## Coach Screws

Hex Head - Ø6.0mm

### Material & Geometry

Material	Carbon Steel
Screw diameter (mm)	6.0
Head diameter (mm)	11.01
Inner thread diameter (mm)	4.19

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 12° [Nmm] (thread section) in acc. to EN 409	8568
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	16.78
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	14.51
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	25.14
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	8.58
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$ (the holes were pre-drilled)	2.62

### Durability

Coating (Finish)	Zinc plated and passivated
Corrosion protection	Service Class 2 acc. to EN 1995-1-1

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## Coach Screws

Hex Head - Ø8.0mm

### Material & Geometry

Material	Carbon Steel
Screw diameter (mm)	8.0
Head diameter (mm)	14.35
Inner thread diameter (mm)	5.47

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 10° [Nmm] (thread section) in acc. to EN 409	19762
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	15.20
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	12.76
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	24.27
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	14.37
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$ (the holes were pre-drilled)	2.17

### Durability

Coating (Finish)	Zinc plated and passivated
Corrosion protection	Service Class 2 acc. to EN 1995-1-1

# Declaration of Performance

## Coach Screws

Hex Head - Ø10.0mm

### Material & Geometry

Material	Carbon Steel
Screw diameter (mm)	10.0
Head diameter (mm)	18.92
Inner thread diameter (mm)	6.92

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 9° [Nmm] (thread section) in acc. to EN 409	42729
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	14.38
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	12.34
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	20.31
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	21.31
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$ (the holes were pre-drilled)	1.92

### Durability

Coating (Finish)	Zinc plated and passivated
Corrosion protection	Service Class 2 acc. to EN 1995-1-1

# Declaration of Performance

## Coach Screws

Hex Head - Ø12.0mm

### Material & Geometry

Material	Carbon Steel
Screw diameter (mm)	12.0
Head diameter (mm)	21.35
Inner thread diameter (mm)	8.88

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 8° [Nmm] (thread section) in acc. to EN 409	61162
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	14.98
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	13.01
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	20.25
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	35.45
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$ (the holes were pre-drilled)	2.51

### Durability

Coating (Finish)	Zinc plated and passivated
Corrosion protection	Service Class 2 acc. to EN 1995-1-1