

Declaration of Performance

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Advanced Coach Screws



Material - Carbon Steel (C1022)

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: E-30-20101-17 to E-30-20104-17

Test Report Number: No. 30-10971/1 to 30-10971/4

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
2017

2017

Name

Position

Signature

Location & Date

Test Year

Declaration of Performance

Advanced Coach Screws

Hex Head - Ø6.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	6.0
Fixed washer diameter (mm)	12.60
Inner thread diameter (mm)	3.73

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 12° [Nmm] (thread section) in acc. to EN 409	10970
Characteristic yield moment $M_{y,k}$ at 12° [Nmm] (smooth section) in acc. to EN 409	16096
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	17.47
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	14.82
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	27.19
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	10.41
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	2.10

Durability

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

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Advanced Coach Screws

Hex Head - Ø8.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	8.0
Fixed washer diameter (mm)	14.60
Inner thread diameter (mm)	5.33

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 10° [Nmm] (thread section) in acc. to EN 409	24654
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	16.89
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	12.74
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	34.94
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	15.31
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	2.45

Durability

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

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Advanced Coach Screws Hex Head - Ø10.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	10.0
Fixed washer diameter (mm)	17.50
Inner thread diameter (mm)	6.25

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 19° [Nmm] (thread section) in acc. to EN 409	40526
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	15.60
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	11.36
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	30.05
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	23.92
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	3.78

Durability

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

Declaration of Performance

Advanced Coach Screws Hex Head - Ø12.0mm

Material & Geometry

Material	Carbon Steel (C1022)
Screw diameter (mm)	12.0
Head diameter (mm)	21.53
Inner thread diameter (mm)	7.81

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 8° [Nmm] (thread section) in acc. to EN 409	66115
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	14.69
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	9.78
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	26.52
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	37.40
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450\text{kg/m}^3$	2.94

Durability

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