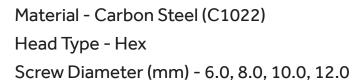


Declaration of Performance

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Advanced Coach Screws





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;

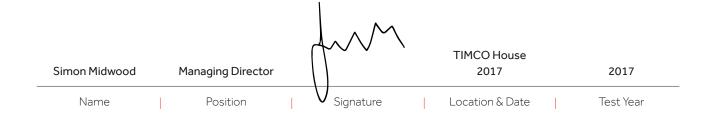
The initial type testing has been carried out by independent notified body; Strojirensky Zkusebni Ustav, NB # 1015, Hudcova 424/56B, 621 00 Brno-Medlánky, Czechia

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.





Cert No: E-30-20101-17 Test Report No: 30-10971/1

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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 1 with density of wood ρ_k = 350kg/m ³	382 17.47
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 13 with density of wood ρ_k = 350kg/m ³	82 14.82
Characteristic head pull-through parameter $f_{\text{tens,k}}$ [N/mm ²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m ³	27.19
Characteristic tensile capacity ftens,k [kN] in acc. to EN 1383	10.41
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m ³	2.10

Durability

Coating (Finish) Zinc or Yellow plated



Cert No: E-30-20102-17 Test Report No: 30-10971/2

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Declaration of Performance

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 My,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 13 with density of wood ρ_k = 350kg/m ³	382 16.89
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm ²] in acc. to EN 138 with density of wood ρ_k = 350kg/m ³	12.74
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m ³	34.94
Characteristic tensile capacity ftens,k [kN] in acc. to EN 1383	15.31
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m ³	2.45

Durability

Coating (Finish) Zinc or Yellow plated



Cert No: E-30-20103-17 Test Report No: 30-10971/3

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Declaration of Performance

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 13 with density of wood ρ_k = 350kg/m ³	382 15.60
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 136 with density of wood ρ_k = 350kg/m³	11.36
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m ³	30.05
Characteristic tensile capacity ftens,k [kN] in acc. to EN 1383	23.92
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m ³	3.78

Durability

Coating (Finish) Zinc or Yellow plated



Cert No: E-30-20104-17 Test Report No: 30-10971/4

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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 1 with density of wood ρ_k = 350kg/m ³	382 14.69
Characteristic withdrawal parameter (loading along the fibre) $f_{\text{ex,k}}$ [N/mm²] in acc. to EN 13 with density of wood ρ_{k} = 350kg/m³	9.78
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm ²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m ³	26.52
Characteristic tensile capacity ftens,k [kN] in acc. to EN 1383	37.40
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m ³	2.94

Durability

Coating (Finish) Zinc or Yellow plated