Date: 30/11/2022
v1

Declaration of Performance

Coach Screws

CE

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-01639-22 to CPR-J-01642-22
Test Report Number: No. 30-16198/1/JP to 30-16198/4/JP

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

This declaration is the responsibility of the importer ; T.I.Midwood & Co. Ltd.

Simon Midwood	Managing Director		TIMCO House 2022	2022
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)	11.15
Inner thread diameter (mm)	4.25

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 12° [Nmm] (thread section) in acc. to EN 409	9534
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$	15.60
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$	11.29
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood $\rho_k = 350 kg/m^3$	26.81
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	8.53
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450 kg/m^3$	1.70

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 - Ø8.0mm

Material & Geometry

Material	Carbon Steel
Screw diameter (mm)	8.0
Head diameter (mm)	14.52
Inner thread diameter (mm)	5.66

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 10° [Nmm] (thread section) in acc. to EN 409	18643
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$	14.25
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$	10.61
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood $\rho_k = 350 kg/m^3$	25.19
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	15.50
Characteristic torsional ratio in acc. to EN 15737 with density of wood $\rho_k = 450 kg/m^3$	2.31

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)	19.24
Inner thread diameter (mm)	6.97

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 9° [Nmm] (thread section) in acc. to EN 409	35801
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 350kg/m³	13.63
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 350kg/m³	10.46
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	19.31
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	23.56
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	3.26

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)	21.53
Inner thread diameter (mm)	9.16

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 8° [Nmm] (thread section) in acc. to EN 409	54736
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 350kg/m³	11.82
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm²] in acc. to EN 1382 with density of wood ρ_k = 350kg/m³	9.96
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm²] in acc. to EN 1383 with density of wood ρ_k = 350kg/m³	21.64
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	28.90
Characteristic torsional ratio in acc. to EN 15737 with density of wood ρ_k = 450kg/m³	3.49

Durability

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