Date: 22/03/2022

v1

Declaration of Performance

Carriage Bolts (Class 4.8)

CE

Material - Carbon Steel

Head Type - Domed top, square under the head

Bolt Diameter (mm) - M6, M8, M10, M12, M16

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-30-20561-13 to E-30-20564-13 & E-30-20330-17
Test Report Number: No. 30-9958/1 to No. 30-9958/4 & No.1015-CPR-30-11086

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 2017	2014/2017
Name	Position	Signature	Location & Date	Test Year

Declaration of Performance

Carriage Bolts (Class 4.8)

Domed top, square under the head - M6

Material & Geometry

Material	Carbon Steel
Bolt diameter (mm)	M6
Head diameter (mm)	16.0
Inner thread diameter (mm)	5.25

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 13° [Nmm] (thread section) in acc. to EN 409	7676
Characteristic tensile strength R_m [MPa] in acc. with EN ISO 898-1	447

Durability

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

Declaration of Performance

Carriage Bolts (Class 4.8)

Domed top, square under the head - M8

Material & Geometry

Material	Carbon Steel
Bolt diameter (mm)	M8
Head diameter (mm)	20.0
Inner thread diameter (mm)	7.85

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 10° [Nmm] (thread section) in acc. to EN 409	21973
Characteristic tensile strength R_m [MPa] in acc. with EN ISO 898-1	453

Durability

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

Declaration of Performance

Carriage Bolts (Class 4.8)

Domed top, square under the head - M10

Material & Geometry

Material	Carbon Steel
Bolt diameter (mm)	M10
Head diameter (mm)	24.0
Inner thread diameter (mm)	9.80

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 9° [Nmm] (thread section) in acc. to EN 409	35214
Characteristic tensile strength R_m [MPa] in acc. with EN ISO 898-1	468

Durability

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

Carriage Bolts (Class 4.8)

Domed top, square under the head - M12

Material & Geometry

Material	Carbon Steel
Bolt diameter (mm)	M12
Head diameter (mm)	30.0
Inner thread diameter (mm)	11.90

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 8° [Nmm] (thread section) in acc. to EN 409	79101
Characteristic tensile strength R_m [MPa] in acc. with EN ISO 898-1	469

Durability

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

Declaration of Performance

Carriage Bolts (Class 4.8)

Domed top, square under the head - M16

Material & Geometry

Material	Carbon Steel
Bolt diameter (mm)	M16
Head diameter (mm)	38.0
Inner thread diameter (mm)	15.85

Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 6° [Nmm] (thread section) in acc. to EN 409	84757
Characteristic tensile strength R_m [MPa] in acc. with EN ISO 898-1	426

Durability

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