

Declaration of Performance

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Carriage Bolts (Class 4.8)



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 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

2014/2017

Name

Position

Signature

Location & Date

Test Year

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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

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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

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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

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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

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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