



Declaration of Performance (DoP)

No. CT02 – EN 14399-3 and EN 14399-7 PC 10.9



0045

We

Cooper & Turner

of

Sheffield Road
Sheffield
England
S9 1RS

Canklow Meadows Ind Est
Rotherham
England
S60 2XL

declare that our PC10.9 high-strength bolting assemblies for preloading produced in accordance with EN 14399-3 or EN 14399-7 with the Intended use in Structural metallic works fulfil the requirements of EN 14399-1 and will be in be in conformity with the declared performance stated in the table below.

A Factory Production Control certificate for bolting assemblies in accordance with EN 14399-1:2005 Appendix ZA system 2+; certificate no: 0045-CPD-0877 - has been issued to Cooper & Turner by notified body:-

TÜV Nord Systems GmbH & Co. KG – 0045

Declared Performance		
Essential Characteristics	Performance	Harmonised Technical Standard
Tolerance on dimensions, form and position (bolts)	EN 14399-3 or -7 Product grade C Pass	EN 14399-1:2005
Percentage Elongation after fracture (bolts)	EN ISO 898-1 A% ≥ 9	
Minimum tensile strength (bolt) Stress at 0.2% non-proportional elongation (bolts) Stress under proof load (bolts) Strength under wedge (bolts) Hardness (bolts) Impact strength (bolts)	EN ISO 898-1 R _m ≥ 1040 MPa R _{p0.2} ≥ 940 MPa Sp of 830 MPa R _m ≥ 1040 MPa ≥ 320 HV and ≤ 380 HV ≥ 27 J at -20°C	
Friction coefficient (k-class)	K0	
Tolerance on dimensions, form and position (nuts)	EN 14399-3 or 7 Product grade B Pass	
Stress under proof load (nuts) Hardness (nuts)	EN 14399-3 or 7 Pass EN ISO898-2 Pass	
Tolerance on dimensions, form and position (chamfered washers)	EN 14399-6 Product grade A Pass	
Tolerance on dimensions, form and position (nut face washers) Hardness (washers)	EN 14399-9 Product grade C Pass EN 14399-6 or EN 14399-9 Pass	
Tolerance on dimensions, form and position (DTI)	EN 14399-9 Pass	
Hardness (DTI) Compression load (DTI)	EN 14399-9 ≤ 380 HV Pass	
Suitability of preloading (assemblies)	F _{bi} max ≥ 0.9 f _{ub} A _s ΔØ2 – Pass k-class – K0	

This declaration of performance (DOP) is issued under the sole responsibility of Cooper and Turner, and the CE mark is permitted to be affixed at the two locations stated above.

Signed: 
Name: **David Briggs**

Position: **Quality Manager**
Date: **18th June 2013**