



# Declaration of Performance (DoP)

No. CT01 – EN 14399-3 and EN 14399-7 PC 8.8



0045

We

Cooper & Turner

of

Sheffield Road  
Sheffield  
England  
S9 1RS

Canklow Meadows Ind Est  
Rotherham  
England  
S60 2XL

declare that our PC8.8 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% $\geq 12$	
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 $R_m \geq 830$ MPa $R_{p0.2} \geq 660$ MPa  Sp of 600 MPa $R_m \geq 830$ MPa $\geq 255$ HV and $\leq 335$ HV $\geq 27$ 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 ISO 898-2 Pass Pass	
Tolerance on dimensions, form and position (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 $\leq 380$ HV Pass	
Suitability of preloading (assemblies)	$F_{bi} \max \geq 0.9 f_{ub} A_s$ $\Delta\theta 2$ – 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: **18<sup>th</sup> June 2013**