

Declaration of Performance (DoP)

No. CT05 - EN 14399-4 PC 10.9

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0045

We Cooper & Turner

of Sheffield Road Canklow Meadows Ind Est

Sheffield Rotherham
England England
S9 1RS S60 2XL

declare that our PC10.9 high-strength bolting assemblies for preloading produced in accordance with EN 14399-4 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

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Declared Performance		
Essential Characteristics	Performance	Harmonised Technical Standard
Tolerance on dimensions, form and position	EN 14399-4	
(bolts)	Product grade C Pass	4
Percentage Elongation after fracture (bolts)	EN ISO 898-1	
	A% ≥ 9	
	EN ISO 898-1	
Minimum tensile strength (bolt)	R _m ≥ 1040 MPa	
Stress at 0.2% non-proportional elongation	R _{p0.2} ≥ 940 MPa	
(bolts)	-	
Stress under proof load (bolts)	Sp of 830 MPa	
Strength under wedge (bolts)	R _m ≥ 1040 MPa	
Hardness (bolts)	≥ 320 HV and ≤ 380 HV	
Impact strength (bolts)	≥ 27 J at -20°C	
Friction coefficient (k-class)	K1	EN 14399-1:2005
Tolerance on dimensions, form and position	EN 14399-4	1
(nuts)	Product grade B Pass	
Stress under proof load (nuts)	EN ISO 898-2 Pass	
Hardness (nuts)	Pass	
Tolerance on dimensions, form and position	EN 14399-6	1
(chamfered washers)	Product grade A Pass	
Hardness (washers)	EN 14399-6	
	Pass	
Suitability of preloading (assemblies)	F _{bi} max ≥ 0.9 f _{ub} A _s	
	ΔΘ2 – Pass	
	k-class – K1	
	0.10 ≤ ki ≥ 0.16	

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: Position: Quality Manager Name: David Briggs Date: 18th June 2013