

DECLARATION OF PERFORMANCE (DOP)

1	PRODUCT SIZE	M-16	REF NO.	GD-BNW-16Z(01)-072013
2	PRODUCT GRADE	8.8	Finish	EZP
3	PRODUCT TYPE	Non Preloading Structural Bolting Assembly		
4	PRODUCT REFERENCE STANDARD	EN 15048-Part 1 and 2		
5	INTENDED USE	General engineering and structures		
6	MANUFACTURER	GDPA Fasteners,India		
7	ADDRESS OF MANUFACTURER	Near Railway godowns Jalandhar City (144004) - Punjab -India		
8	CONTACT NO. OF MANUFACTURER	(+91) 0181-2642003, 0181-2642006		
9	NAME AND IDENTIFICATION OF NOTIFYING BODY	TUV Nord Systems, GmbH & Co. KG - (0045)		
10	PRODUCT DESCRIPTION	HEX SCREWS ISO 4017-8.8, HEX NUTS ISO 4032-CL-10, WASHER ISO 7091-100HV		
11	FACTORY PRODUCTION CONTROL CERTIFICATE NO.	CE-0045 -CPD -1536		
12	AUTHORIZED REPRESENTATIVE	Mr. Emanuel Masih.		

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Essential Characteristics	Performance	Harmonized Specification
Bolts		
Tensile strength	min.800 MPa	EN 15048-part 1&2
Stress at 0.2% non proportional elongation	min.640 MPa	
Stress under proof load	min.580 MPa	
Strength under wedge loading	min.130 KN	
Hardness(Rockwell)	min.22 Hrc	
Impact Strength	Minimum 27 J at -20 degrees C	
Release of dangerous substances	less than 0.2 ppm	
Durability (corrosion protection)	Min. coating thickness 5 Microns	
Nuts		
Proof Load	Min. 164.9kn	
Hardness	min.26 Hrc	
Release of dangerous substances	less than 0.2 ppm	
Durability (corrosion protection)	Min. coating thickness 5 Microns	
Washers		
Hardness(Rockwell)	Minimum 100 HV	
Release of dangerous substances	less than 0.2 ppm	
Durability (corrosion protection)	Min. coating thickness 5 Microns	
Assemblies		
Tensile resistance of the assembly	min.130 KN	
Durability (corrosion protection)	Min. coating thickness 5 Microns	

- 14 The performance of the product identified in point 1&2 in conformity with the declared performance in point 12 .
This declaration of performance is used under the sole responsibility of the manufacturer identified in point 7.
Signed for and on behalf of the manufacturer by.

Emanuel Masih
(Head Quality Assurance)
GDPA Fasteners, (Jalandhar)India
Dated 01-07-2013