

## DECLARATION OF PERFORMANCE (DOP)

1	PRODUCT SIZE	M-20	REF NO.	GD-BNW-20H(01)-072013
2	PRODUCT GRADE	8.8	Finish	Hot dip galv.
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.		

### DECLARATION PERFORMANCE

Essential Characteristics	Performance	Harmonized Specification
<b>Bolts</b>		
Tensile strength	min.830 MPa	<b>EN 15048-part 1&amp;2</b>
Stress at 0.2% non proportional elongation	min.660 MPa	
Stress under proof load	min.600 MPa	
Strength under wedge loading	min.203 KN	
Hardness(Rockwell)	min.23 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 40 Microns	
<b>Nuts</b>		
Proof Load	Min. 259.7kn	
Hardness	min.26 Hrc	
Release of dangerous substances	less than 0.2 ppm	
Durability (corrosion protection)	Min. coating thickness 40 Microns	
<b>Washers</b>		
Hardness(Rockwell)	Minimum 100 HV	
Release of dangerous substances	less than 0.2 ppm	
Durability (corrosion protection)	Min. coating thickness 40 Microns	
<b>Assemblies</b>		
Tensile resistance of the assembly	min.203 KN	
Durability (corrosion protection)	Min. coating thickness 40 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