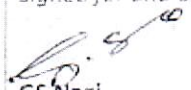


SN	DECLARATION OF PERFORMANCE (DoP)			
1	Product Size	M20	Ref. No.	DF062013/3447
2	Product Grade	8.8	Finish	BZP
3	Product Type	Non Preloading Structural Bolting Assembly		
4	Product reference standard	EN 15048- Part 1&2		
5	Intended Use	General building & engineering structures		
6	Manufacturer	M/s Deepak Fasteners Limited		
7	Address of the Manufacturer	4 th Floor, First Mall, The Mall, Ludhiana-141001, Punjab (INDIA)		
8	Contact No. of the Manufacturer	+91-161-3911111, Extension No.- 1105		
9	Name & identification no. of notifying body	TUV Nord Systems GmbH & Co. KG; 0045		
10	Factory Production Control certificate No.	FPC report no. 0045-CPD-1502		
11	Authorized Representative	Mr. G.S. Nagi (Vice President)		
12	Declared Performance			
	Essential Characteristics	Performance	Harmonized Specification	
	Bolt:			
	1. Tensile Strength	830 MPa (Min.)		
	2. Stress at 0.2% non proportional elongation	660 MPa (Min.)	EN 15048- Part 1 & Part 2	
	3. Stress under Proof Load	600 MPa (Nominal)		
	4. Strength under wedge loading	Pass with 6"		
	5. Hardness (Rockwell)	23-34 HRC		
	6. Impact Strength	Minimum 27 J at -20°C		
	7. Release of dangerous substances	Less than 0.2 ppm		
	8. Durability (Corrosion Protection)	Min. coating thickness 8 microns		
	Nut:			
	1. Proof Load	225,400 N		
	2. Hardness	233-353 HV		
	3. Release of dangerous substances	Less than 0.2 ppm		
	4. Durability (Corrosion Protection)	Min. coating thickness 8 microns		
	Washers:			
	1. Hardness	Minimum 100 HV		
	2. Release of dangerous substances	Less than 0.2 ppm		
	3. Durability	Min. coating thickness 8 microns		
	Assemblies:			
	1. Tensile Resistance of the assembly	203.00 KN (Minimum)		
	2. Durability (Corrosion Protection)	Min. coating thickness 8 microns		
13	<p>The performance of the product identified in point 1&2 is in conformity with the declared performance in point 12. This declaration of performance is issued under the sole responsibility of the manufacturer identified in Point 7. Signed for and on behalf of the manufacturer by:</p> <p> GS Nagi (Vice President) Place: Ludhiana (INDIA) Date: 17.06.2013</p>			