

KALISMA STEEL PVT. LIMITED

DOP No.: KAL/DOP/01/A

DECLARATION OF PERFORMANCE (DOP)

1. Unique identification code of the product-type: Structural Bolting Assemblies according to EN 15048

 Type, batch or serial number identification of the construction product: Type and FIR No./Lot No. displayed on the packing and Material Test Certificate according to EN 10204 type 3.1

Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as
foreseen by the manufacturer:

Generic Type and use	Non preloading structural bolting assemblies	
Product size covered	M12-M27	
Base and fastener material	Steel specification in ISO:898-1 Screws/ Bolts & ISO:898-2 for Nuts	
Base and material condition	Soft Material	
Fastener head type	Hexagon Head Screws/Bolts & Nuts	
Fastener coating – hot dip galvanized, thread type	 Screws/Bolts manufactured with thread under size tolerance 6az class before coating, Nuts in tolerance position 6H after coating. Screws/Bolts manufactured with thread tolerance 6g/6h class before coating, Nuts in tolerance position 6AZ after coating. 	

 Name, registered trade name and contract address of the manufacturer: Kalisma Steel Pvt. Limited Corporate: # 406, 4th Floor, Shree Krishna Building, New Link Road, Andheri (West), Mumbai-400053, India Factory: Survey # 45/2, 45/3, 47, Gorha Village, Wada Taluk, Thane District, Maharashtra 421303 (India)

5. System of the assessment and verification of constancy of performance of the construction product: System2+

6. Declared Performance:

7. a)Harmonized standard: EN 15048-2007. b) Certificate no.: 2292-CPR-4323

Essential characteristics	Performance	Harmonized technical specification
Tolerance on dimension and shape	Tolerance Class C	DIN 7990 Screws/ Bolts and ISO:4032 for Nuts
Tensile Strength [N/mm2]	400 Min.	ISO: 898-1
Elongation after fracture [%]	22% Min.	ISO: 898-1
Stress at 0.2% no proportional elongation [N/mm2]	N/A	-
Stress under proof load [N/mm2]	225 Min.	ISO: 898-1
Tensile Test under wedge loading [N/mm2]	400 Min.	ISO: 898-1
Hardness [HRB]	67-95	ISO: 898-1
Impact Strength Kv at -20°C [Joule]	N/A	-
Hardness of Nut [HV] Grade 5	M5 ≤D ≤M16 -130 -302 HV & > M16 146-302 HV	ISO: 898-2
Proof Load of Nut [N]	For M12- 51400, M16 -95800 , M20- 154400, M24-222400 & M27- 289200	ISO: 898-2
Suitability Test for assemblies nut & bolt [N]	M12-33700, M16- 62800, M20-98000, M24-141000 & M27-184000	EN 15048-1
Release of dangerous substance	< 0.1%	EN 15048-1
Durability	NPD	EN 15048-1

Related Directive and Annex.: 305/2011/EU Construction Product Directive -Annex 5, Cl.1 1.3(b)

We herby certify that the products: Bolts to DIN 7990 grade 4.6 and Nut ISO: 4032 grade 5 are produced according to the specification in the appendix ZA of EN 15048-1and statement on certificate of factory production control, issued by UDEM, Mutlukent Mahallesi 2073 Sokak (Eski 93Sokak) No:10 Cankaya-Ankara-TURRKEY notified authority.

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 6. This declaration of performance (DOP) is issued under the sole responsibility of the manufacturer identified in point 4. Singled for and on behalf of the manufacturer by:

(Place and date of issue) (Wada, Thane (INDIA) (Name and Function)
(P K SAHOQ)
(QA HEAD)

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