


ISSUED IN ACCORDANCE WITH REGULATION No. 305/2011/EU Annex III

1. Unique identification code of the product-type:

Non-preloaded Structural Bolting Assemblies EN15048-1:2007

Additional information: Carbon Steel / Alloy Steel
Bolts M (12~36)
Strength class 8.8, 10.9
Nuts M (12~36)
Strength class 8, 10
Coating type: SC, HDG, BZP, BLACK
Marking: "SB" and "

2. Intended use of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

Structural Metallic Works

3. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

Huade Holdings Ltd (Vietnam)
L.211, Doson Industrial Zone
Haiphong, Vietnam

4. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 2+

5. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

Lloyd's Register Verification, K.P. Van Der Mandelelaan 41 A, 3062MB, Rotterdam, body No. 0343
performed the initial inspection of the manufacturing plant and of factory production control and the
continuous surveillance, assessment and evaluation of factory production control under system 2+ and issued the

Certificate of Conformity of Factory Production Control
Certificate No: 0343/CPR/SHA/BJG6007989/B

6. Declared performance

Essential Characteristics	Performance	Harmonised Technical Specification
DECLARATION OF PERFORMANCE BOLT		
Tensile Strength (MPa)	Cl. 8.8 : Min. 830 Cl. 10.9 : Min. 1,040	EN 15048-1:2007 (ISO 898-1)
Yield Point (MPa)	Cl. 8.8 : Min. 660 Cl. 10.9 : Min. 940	
Stress under Proof Load (MPa)	Cl. 8.8 : Min. 600 Cl. 10.9 : Min. 830	
Strength under Wedge Loading (MPa)	Cl. 8.8 : Min. 830 Cl. 10.9 : Min. 1,040	
Elongation, A ₅ (%)	Cl. 8.8 : Min. 12 Cl. 10.9 : Min. 9	
Hardness (HRC)	Cl. 8.8 : 23 - 34 Cl. 10.9 : 32 - 39	
Impact Strength (J @ -20°C)	Cl. 8.8 : Min. 27 Cl. 10.9 : Min. 27	
Durability	NPD	
Release of Dangerous Substances	NPD	EN 15048-1:2007

Essential Characteristics	Performance	Harmonised Technical Specification
DECLARATION OF PERFORMANCE NUT		
Stress under Proof Load (MPa)	Cl. 8 : Min. 880 (M12 to M16) : Min. 920 (> M16 to M36) Cl. 10 : Min. 1,050 (M12 to M16) : Min. 1,060 (> M16 to M36)	EN 15048-1:2007 (ISO 898-2)
Hardness (HV)	Cl. 8 : 200 - 334 (M12 to M16) : 233 - 334 (> M16 to M36) Cl. 10 : 272 - 353 (M12 to M36)	
Durability	NPD	
Release of Dangerous Substances	NPD	EN 15048-1:2007

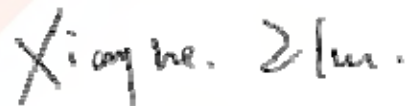
Essential Characteristics	Performance	Harmonised Technical Specification
DECLARATION OF PERFORMANCE ASSEMBLIES		
Tensile Resistance of the Assembly (kN)	<p>Cl. 8.8</p> <p>M12 : Min. 70</p> <p>M16 : Min. 130</p> <p>M18 : Min. 159</p> <p>M20 : Min. 203</p> <p>M22 : Min. 252</p> <p>M24 : Min. 293</p> <p>M27 : Min. 381</p> <p>M30 : Min. 466</p> <p>M33 : Min. 576</p> <p>M36 : Min. 678</p> <p>Cl. 10.9</p> <p>M12 : Min. 87.7</p> <p>M16 : Min. 120</p> <p>M18 : Min. 200</p> <p>M20 : Min. 255</p> <p>M22 : Min. 315</p> <p>M24 : Min. 367</p> <p>M27 : Min. 477</p> <p>M30 : Min. 593</p> <p>M33 : Min. 722</p> <p>M36 : Min. 850</p>	EN 15048-1:2007
Durability	NPD	EN 15048-1:2007

7. The performance of the product identified in point 1 is in conformity with the declared performance in point 6.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by:

Haiphong, Date 25th Oct 2024



General Manager : John Zhou