



**CHUN YU
WORKS & CO., LTD**

**FASTNER DEPT.
WIRE DEPT**

**TEL. 886-7-622411
FAX.886-7-6225507.6216697
TEL.886-7-6224111
FAX.886-7-6228381**

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DECLARATION OF PERFORMANCE

DOP NO. : 40942



1. Unique identification code of the product-type :
Non-preloaded structural bolting assemblies
2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):
Non-preloaded structural bolting assemblies
SB Bolt 8.8
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:
Non-preloaded structural bolting assemblies for construction
4. Name, registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):
Chun Yu Works & Co., Ltd.
No.100 Ta-Pao St., Kangshang, Kaohsiung, Taiwan
5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):
Not applicable
6. Systems or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
System 2+
7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:
TUV Rheinland LGA Bautechnik No. 0780 has performed the initial inspection of the manufacturing establishment and the factory production control (and the monitoring), evaluation and continuous assessment of control of factory production and issued the certificate of conformity of production control factory No. 0780-CPD-102046.
8. Performance

Essential characteristic for the mandate	Requirement clause	Harmonized technical specifications
Bolts		EN15048-1 : 2007
Tolerances on dimensions, form and position	GRADE A EN ISO 4014 GRADE A EN ISO 4017	
Elongation after fracture A(%)	CLASS 8.8 EN ISO 898-1 12% (MIN)	



Minimun tensile strength	CLASS 8.8 EN ISO 898-1 d≤16mm 800MPa(MIN) d>16mm 830MPa(MIN)	EN 15048-1 :2007
Stress at 0,2% non-proportional elongation	CLASS 8.8 EN ISO 898-1 d≤16mm 640MPa(MIN) d>16mm 660MPa(MIN)	
Stress under proof load	CLASS 8.8 EN ISO 898-1 d≤16mm 580MPa(MIN) d>16mm 600MPa(MIN)	
Strength under wedge loading	CLASS 8.8 EN ISO 898-1 d≤16mm 800MPa(MIN) d>16mm 830MPa(MIN)	
Hardness	CLASS 8.8 EN ISO 898-1 d≤16mm 22-32 HRC d>16mm 23-34 HRC	
Impact strenght(-20°C)	CLASS 8.8 EN ISO 898-1 27J (MIN)	
Realease of dangerous substances	CPR 305/2011/EU REACH RoHs	
Durability	NPD	
Nuts		
Tolerances on dimensions, form and position	GRADE A/B EN ISO 4032	
Stress under proof load	CLASS 8 EN ISO 898-2 M12 74200 N(MIN) M14 101200 N(MIN) M16 138200 N(MIN) M20 225400 N(MIN) M22 278800 N(MIN) M24 324800 N(MIN) M27 422300 N(MIN) M30 516100 N(MIN)	
Hardness	CLASS 8 EN ISO 898-2 D≤M16 200-302 HV D>M16 233-353 HV	
Realease of dangerous substances	CPR 305/2011/EU REACH RoHs	
Durability	NPD	
Assemblies		
Tensile resistance of the assembly	EN 15048-1 / EN 15048-2 M12 70000 N(MIN) M14 95500 N(MIN) M16 130000 N(MIN) M20 203000 N(MIN) M22 252000 N(MIN) M24 293000 N(MIN) M27 381000 N(MIN) M30 466000 N(MIN)	
Durability	NPD	

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.



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Signed for and on behalf of the manufacturer by:

S.H. Lai / Quality manager of Chun Yu Works & Co., Ltd.

Kaohsiung, Taiwan

2014. 01. 12

Place and date of issue

S. H. Lai

**S.H. Lai / Quality manager
Authorized signature**

