SINCE 1949 ®
LION

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



# DECLARATION OF PERFORMANCE

CE

No. 2013-001SB8

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):**
   **L, 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<br>GRADE A EN ISO 4017 | |
| Elongation after fracture A(%) | CLASS 8.8 EN ISO 898-1<br>12% (MIN) | |

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

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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.**

**Signed for and on behalf of the manufacturer by:**

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

**Kaohsiung, Taiwan**
**July 1, 2013**

**Place and date of issue**

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

CHUN YU WORKS & CO., LTD
Q.A DEPT.
886-7-622-4111
NO. 7A-PAO ST. KANGSHAN. KAOHSIUNG TAIWAN