



**® TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.**  
**Technical and Test Institute for Construction Prague, SOE**

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# ATTESTATION

No. 010-046924

It has been stated that for the construction product:

## Bolts

type / variation:

Grade: Gr.4.8: M12, M14, M16, M18, M20, M24

Grade: Gr.4.6: M12, M20

placed on the market by:

### Simplex Engineering Co.

Marshall House, 3rd Floor, Room No. 322, 33/1, N.S. Road,  
Kolkata – 700 001, West Bengal, India

produced in factory:

### Simplex Engineering Co.

Saraswati Complex, Andul Domjur Road, Village Nimerhati,  
JL-30, PO-Makardha, Howrah-711409, West Bengal, India

**Technical and Test Institute for Construction Prague, branch 0100 Prague**

has performed

according to Regulation (EU) 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), Art. 1.4 of the Annex V (system 3)

assessment of performance

for the following characteristics given in Annex ZA of the standard **EN 14592:2008+A1:2012** with obtained following characteristic values:

| Characteristic / bolts                                 | unit | Identification of the test method | bolt types: Gr.4.6 |            | bolt types: Gr.4.8 |              |            |            |            |            |
|--------------------------------------------------------|------|-----------------------------------|--------------------|------------|--------------------|--------------|------------|------------|------------|------------|
|                                                        |      |                                   | M12.0x160          | M20.0x260  | M12.0x310          | M14.0x260    | M16.0x160  | M18.0x310  | M20.0x210  | M24.0x420  |
| Nominal diameter (d)                                   | [mm] | EN 14592 2008+A1:2012, p. 5       | -                  | -          | -                  | -            | -          | -          | -          | -          |
| Length (l)                                             | [mm] | EN 14592 2008+A1:2012, p. 5       | -                  | -          | -                  | -            | -          | -          | -          | -          |
| Characteristic yield moment ( $M_{yk}$ ) - smooth part | [Nm] | EN 409:2008                       | 124 321 33         | 528 791 74 | 128 968 46         | 1 914 163 94 | 303 652 97 | 469 657 80 | 537 402 96 | 369 529 17 |

Test results are contained in Report on the assessment of performance No. 1020-CPR-010-046923 from 19. 06. 2023 issued by Technical and Test Institute for Construction Prague.

Stamp of the TZÚS Praha, s.p.

Prague, June 19<sup>th</sup>, 2023



Ing. Zdeněk Kočí

Manager of branch 0100 Praha

for the Technical and Test Institute for Construction Prague