

**DECLARATION OF PERFORMANCE No. M16SB8.8/10HDG**  
(EU Declaration of Conformity)



2814

**UIC of the product type:** M16SB8.8/10HDG (Unique Identification Code)  
**Intended use:** General building and engineering structures including off-shore structures  
**Manufacturer:** **Andrews Fasteners Ltd**  
**Unit 8, Latchmore Park, Latchmore Rd, Leeds, West Yorkshire, LS12 6DN, United Kingdom**  
**System/s of AVCP:** System 2+  
**Harmonised standard:** BS EN 15048-1:2007  
**Notified Body/ies:** 2814 - Lloyd's Register Verification B.V.(Reg. no. 24247947)  
 K.P. Van Der Mandeleelen 41 A, 3062MB, Rotterdam, Netherlands  
**EC Certificate of Conformity No.** 2814/CPR/LRQ 4009220/A

Declared performance/s:

| Essential characteristics                               | Performance  | Harmonized technical specification |  |
|---|--|------------------------------------|--|
| <b>Bolt</b>   |  |                                    |  |
| Tolerances on dim., form and position                   | ISO 4017   | BS EN 15048-1:2007                 |  |
| Elongation after fracture                               | min. 12% (ISO 898-1)                               |                                    |  |
| Minimum tensile strength                                | min. 830 MPa (ISO 898-1)                           |                                    |  |
| Lower yield strength or Stress at 0.2% non-proportional | min. 660 MPa (ISO 898-1)                           |                                    |  |
| Stress under proof load                                 | min. 600 MPa (ISO 898-1)                           |                                    |  |
| Strength under wedge loading                            | min. 130 kN (ISO 898-1)                            |                                    |  |
| Hardness  | req 255-335 HV, 250-331 HBW, 23-34 HRC (ISO 898-1) |                                    |  |
| Impact strength   | min. 27 J at -20 °C (ISO 898-1)                    |                                    |  |
| Release of dangerous substances                         | Substances X: Less than 0.2 ppm                    |                                    |  |
| Durability  | pass (ISO 10684, 50um av min)                      |                                    |  |
| <b>Nut</b>  |  |                                    |  |
| Tolerances on dimensions, form and position             | ISO 4032   |                                    |  |
| Stress under proof load                                 | min. 164,9 kN (ISO 898-2)                          |                                    |  |
| Hardness  | 272-353 HV, 259-336 HB, 26-36 HRC (ISO 898-2)      |                                    |  |
| Release of dangerous substances                         | Substances X: Less than 0.2 ppm                    |                                    |  |
| Durability  | pass (ISO 10684, 50um av min)                      |                                    |  |
| <b>Washer/s</b>   |  |                                    |  |
| Tolerances on dimensions, form and position             | ISO 7091   |                                    |  |
| Hardness (washer)                                       | min. 100 HV  |                                    |  |
| Release of dangerous substances                         | Substances X: Less than 0.2 ppm                    |                                    |  |
| Durability  | pass (ISO 10684, 50um av min)                      |                                    |  |
| <b>Assembly</b>   |  |                                    |  |
| Tensile Resistance of the assembly                      | min. 130 kN (ISO 898-1)                            |                                    |  |
| Durability  | pass (ISO 10684, 50um av min)                      |                                    |  |

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) 305/2011 including changes commenced by Commission Delegated Regulation (EU) No 574/2014 and relevant requirements of the Harmonized Standard - Annex ZA under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:  
**Michael Carey**  
 Managing Director  
 At Leeds on 01/01/2021