

DECLARATION OF PERFORMANCE No. M33SB8.8/10HDG
(UK Declaration of Conformity)

UIC of the product type: M33SB8.8/10HDG (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: 0038 - Lloyd's Register Verification Limited,
 71 Fenchurch Street, London, EC3M 4BS, United Kingdom
EC Certificate of Conformity No. 0038/CPR/LRQ 4009220/A

Declared performance/s:

Essential characteristics	Performance	Harmonized technical specification	
Bolt			
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. 576 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)		
Nut			
Tolerances on dimensions, form and position	ISO 4032		
Stress under proof load	min. 735,6 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)		
Washer/s			
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)		
Assembly			
Tensile Resistance of the assembly	min. 576 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 Exit) 2019 No. 465 including changes and relevant requirements of the Harmonized Standard - Annex ZA under the sole responsibility of the manufacturer identified above. Manufacturer takes full responsibility for the product's compliance.



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