

DECLARATION OF PERFORMANCE No. M33SB8.8/10HDG

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**
Latchmore Park, Latchmore Road,
Leeds, LS12 6DN, West Yorkshire, United Kingdom
System/s of AVCP: System 2+
Harmonised standard: EN 15048-1:2007
Notified Body/ies: 0038 - Lloyds Register Verification Limited
 71 Fenchurch Street, London EC3M 4BS UK
EC Certificate of Conformity No.: 0038/CPR/LRQ 4009220/A
Declared performance:

Essential characteristics	Performance	Harmonized technical specification
Bolts		
Tolerances on dim., form and position	EN ISO 4017	EN 15048-1:2007
Elongation after fracture	min. 12% (ISO 898-1)	EN 15048-1:2007
Minimum tensile strength	min. 830 MPa (ISO 898-1)	EN 15048-1:2007
Lower yield strength or Stress at 0.2% non-proportional	min. 660 MPa (ISO 898-1)	EN 15048-1:2007
Stress under proof load	min. 600 MPa (ISO 898-1)	EN 15048-1:2007
Strength under wedge loading	min. 576 kN (ISO 898-1)	EN 15048-1:2007
Hardness	req 255-335 HV, 250-331 HBW, 23-34 HRC (ISO 898-1)	EN 15048-1:2007
Impact strength	min. 27 J at -20 °C (ISO 898-1)	EN 15048-1:2007
Release of dangerous substances	Substances X: Less than 0.2 ppm	EN 15048-1:2007
Durability	pass (ISO 10684, 50um av min)	EN 15048-1:2007
Nuts		
Tolerances on dimensions, form and position	EN ISO 4032	EN 15048-1:2007
Stress under proof load	min. 735,6 kN (ISO 898-2)	EN 15048-1:2007
Hardness	272-353 HV, 259-336 HB, 26-36 HRC (ISO 898-2)	EN 15048-1:2007
Release of dangerous substances	Substances X: Less than 0.2 ppm	EN 15048-1:2007
Durability	pass (ISO 10684, 50um av min)	EN 15048-1:2007
Washers		
Tolerances on dimensions, form and position	ISO 7091	EN 15048-1:2007
Hardness (washer)	min. 100 HV	EN 15048-1:2007
Release of dangerous substances	Substances X: Less than 0.2 ppm	EN 15048-1:2007
Durability	pass (ISO 10684, 50um av min)	EN 15048-1:2007
Assemblies		
Tensile Resistance of the assembly	min. 576 kN (ISO 898-1)	EN 15048-1:2007
Durability	pass (ISO 10684, 50um av min)	EN 15048-1:2007

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) No 305/2011, 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 26/01/2016