

# Declaration of Performance

Nr. 20130701-15048

Acc. to Annex III Construction Products Regulation ( 305/2011/EU)  
Delegated Regulation (EU) Nr. 574/2014

For the construction product: **Non preloaded structural bolting assemblies**

1. Unique identification code of product : **EN 15048-1:2007 – 8.8**
  2. Intended use for construction product : **General building and engineering structures including off-shore structures**
  3. Contact address of manufacturer : **Stafa Group  
Den Engelsman 18  
6026 RB Maarheeze  
The Netherlands**
  4. Contact address of authorised representative : **Not Relevant**
  5. Assessment system **System 2+**
  6. Verification for consistency of performance : **EN 15048, Annex ZA**  
**TÜV NORD Systems GmbH & Co. KG  
D-22525 Hamburg , Kenn.Nr. 0045  
(cert.no. 0045-CPR-1957)**
- The notified body


7. Declaration performance:

Essential characteristics	Performance		Harmonized technical specification	
	Class 8.8 ≤M16	Class 8.8 >M16		
Tolerance on dimension and shape	Tolerance class A		ISO 4014:2011;ISO 4017:2014 ISO 4032:2012	
Tensile strength [N/mm <sup>2</sup> ]	min.800	min.830	ISO 898-1:2013	
Elongation after fracture [%]	min.12	min.12	ISO 898-1:2013	
Stress at 0.2% nonproportional elongation [N/mm <sup>2</sup> ]	NPD	NPD	ISO 898-1:2013	
Stress under proof load [N/mm <sup>2</sup> ]	NPD	NPD	ISO 898-1:2013	
Tensile test under wedge loading [N/mm <sup>2</sup> ]	min.800	min.830	ISO 898-1:2013	
Hardness HB	238-304	242-318	ISO 898-1:2013	
Reziliëntia Kv -20°C [J]	min.27	min.27	EN 15048-1:2007	
NUTS	Stress under proof load [N/mm <sup>2</sup> ]	880	920	ISO 898-2:2012
	Hardness HV	200-302	233-353	ISO 898-2:2012
ASSEMBLY	Tensile strength [N/mm <sup>2</sup> ]	min.800	min.830	EN 15048-2:2007
Electroplated fasteners	For dry internal use only		ISO 4042:1999	
Hot dip galvanized fasteners	C3-Interior :High humidity ,some air pollution Exterior:Urban inland or mild costal		EN ISO 10684:2004	
Dangerous substance	NPD			

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 6. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

The authorized representative of Stafa Group.

Joep van Gool, Management:



Maarheeze, 3 December 2014