

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**
- The notified body **TÜV NORD Systems GmbH & Co. KG
D-22525 Hamburg , Kenn.Nr. 0045
(cert.no. 0045-CPR-1957)**

7. Declaration performance:

Essential characteristics	Performance		Harmonized technical specification	Additional technical specification	
	Class 8.8 <M12	Class 8.8 ≥M12			
Tolerance on dimension and shape	Tolerance class A		EN 15048-1:2007	ISO 4014:2011; ISO 4017:2014 ISO 4032:2012	
Tensile strength R_m [MPa]	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 $R_{p0.2}$ [MPa]	NPD	NPD		ISO 898-1:2013	
Stress under proof load S_p [MPa]	NPD	NPD		ISO 898-1:2013	
Tensile test under wedge loading [MPa]	min.800	min.830		ISO 898-1:2013	
Hardness HB	245-316	250-331		ISO 898-1:2013	
Rezilienta Kv -20°C [J]	min.27	min.27		-	
NUTS	Stress under proof load[MPa]	880		920	ISO 898-2:2012
	Hardness HV	200-302		233-353	ISO 898-2:2012
ASSEMBLY	Tensile strength [MPa]	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	
Dangererous 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