

DECLARATION OF PERFORMANCE No 2013/07/01-CPR/8.8

1. Unique identification code of the product-type:

Non-preloaded structural bolting assemblies acc. to DIN EN 15048-1: 2007, class 8.8

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

**Non-preloaded structural bolting assemblies acc. to DIN EN 15048-1: 2007, class 8.8,
Lot number on the product label**

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

Non-preloaded structural bolting assemblies acc. to DIN EN 15048-1: 2007

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

“ŁF” – KOELNER ŁFS Sp. z o. o., 37-100 Łancut, 41 Podzwierzyniec St., Poland

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

N/A

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 2 +

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

**TÜV NORD Systems GmbH & Co, KG - 0045
performed audit FPC under system 2+
and issued Certificate of FPC acc. to DIN EN 15048-1: 2007 app. ZA no. 0045-CPD-1145**

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

N/A

9. Declared performance

Essential characteristics	Performance	Harmonised technical specification
Bolts		
Tolerances on dimensions, form and position	ISO 4032 / ISO 4017	EN 15048-1: 2007
Elongation after fracture	≥ 12 %	
Minimum tensile strength	≥ 800 / 830 ¹ MPa	
Stress at 0,2 % non-proportional elongation	≥ 640 MPa	
Stress under proof load	580 / 600 ¹ MPa	
Strength under wedge loading	≥ 800 / 830 ¹ MPa	
Hardness	≥ 22 / 23 ¹ HRC ≤ 32 / 34 ¹ HRC	

Impact strength	≥ 27 J at – 20 °C	
Release of dangerous substances	< 0.1 %	
Durability	NPD	
Nuts		
Tolerances on dimensions, form and position	ISO 4032 / ISO 4034	EN 15048-1: 2007
Stress under proof load	Acc. to ISO 898-2: 2012 Tab. 4	
Hardness	≤ 30 / 36 ¹ HRC	
Release of dangerous substances	< 0.1 %	
Durability	NPD	
Washers		
Tolerances on dimensions, form and position	-	-
Hardness	-	
Release of dangerous substances	-	
Durability	-	
Assemblies		
Tensile resistance of the assembly	Acc. to EN 15048-1 Tab. 7.	EN 15048-1: 2007
Durability	NPD	

¹ – for d > 16 mm

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by:

Łańcut, 1.07.2013

.....
(place and date of issue)

Łukasz Pelc – Quality Control Leader

.....
(name and function)



.....
(signature)

