

# Declaration of performance

DoP-2022/12/06 – UKCA-SB-5.6

## 1. Unique identification code of the product-type

Non-preloaded structural bolting assemblies acc. to EN 15048-1: 2007, class 5.6

## 2. Intended use/es:

Non-preloaded structural bolting assemblies acc. to EN 15048-1: 2007, class 5.6

## 3. Manufacturer:

KOELNER RAWLPLUG IP Sp. z o. o. Oddział w Łąncucie  
Ul. Podzwierzyniec 41, 37-100 Łącut, PL, [www.klfs.pl](http://www.klfs.pl)

## 4. System/s of AVCP:

System 2+

## 5. Designated standard:

EN 15048-1: 2007

## Approved body/ies:

Approved factory control certification body TUV UK Limited No.0879 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued certificate of conformity of the factory production control.

## 6. Declared performance/s:

| Essential characteristics                   | Performance                    | Designated technical specification |
|---------------------------------------------|--------------------------------|------------------------------------|
| <b>Bolts</b>                                |                                |                                    |
| Tolerances on dimensions, form and position | ISO 4014 / ISO 4017 / DIN 7990 | EN 15048-1: 2007                   |
| Elongation after fracture                   | ≥ 20 %                         |                                    |
| Minimum tensile strength                    | ≥ 500 MPa                      |                                    |
| Stress at 0,2 % non-proportional elongation | NPD                            |                                    |
| Stress under proof load <sup>2</sup>        | 280 MPa                        |                                    |
| Strength under wedge loading                | ≥ 500 MPa                      |                                    |
| Hardness                                    | ≤ 95 HRB                       |                                    |
| Impact strength                             | ≥ 27 J at – 20 °C              |                                    |
| Release of dangerous substances             | < 0.1 %                        |                                    |

|                                             |                                       |                  |
|---------------------------------------------|---------------------------------------|------------------|
| Durability                                  | NPD                                   |                  |
|                                             |                                       |                  |
| Tolerances on dimensions, form and position | <b>Nuts</b><br>ISO 4032 / ISO 4034    | EN 15048-1: 2007 |
| Stress under proof load                     | Acc. to ISO 898-2: 2012 Tab. 4        |                  |
| Hardness                                    | ≥ 130 / 146 <sup>1</sup> HV, ≤ 302 HV |                  |
| Release of dangerous substances             | < 0.1 %                               |                  |
| Durability                                  | NPD                                   |                  |
|                                             |                                       |                  |
| <b>Washers</b>                              |                                       |                  |
| Tolerances on dimensions, form and position | ISO 7089 / ISO 7090 / ISO 7091        | EN 15048-1: 2007 |
| Hardness                                    | ≥ 100 HV                              |                  |
| Release of dangerous substances             | < 0.1 %                               |                  |
| Durability                                  | NPD                                   |                  |
|                                             |                                       |                  |
| <b>Assemblies</b>                           |                                       |                  |
| Tensile resistance of the assembly          | Acc. to EN 15048-1 Tab. 7.            | EN 15048-1: 2007 |
| Durability                                  | NPD                                   |                  |

<sup>1</sup> – for d > 16 mm      <sup>2</sup> – for l ≥ 2,5d and b ≥ 2d

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 Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc.) (UE Exit) Regulation 2019 and Construction Products (Amendment etc.) (EU Exit) Regulation 2020, under the sole responsibility of the manufacturer identified above and is available at [www.klfs.pl](http://www.klfs.pl)

I hereby declare that the product named above has been manufactured to comply with the relevant referenced standard.

Signed for and behalf of the manufacturer by:

Piotr Belcar



At Łańcut, on 1.07.2023