

# DECLARATION OF PERFORMANCE

## N° VBUPRO 01A EN



LR ETANCO SAS

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1. Unique identification code of the product-type :

### VBU PRO TF

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

**Identification of product « VBU PRO TF/Tx ZBJ – Ø x L »: see packaging of the product**

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

|                                              |                                                                                                         |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Generic type and intended use of the product | Fixing for the assembly of wood elements with countersunk head, diameters Ø3, Ø3,5, Ø4, Ø4,5, Ø5 and Ø6 |
| For use in                                   | Timber construction                                                                                     |
| Service class                                | 1 and 2 according EN 1995-1-1                                                                           |
| Loading                                      | For structural applications                                                                             |
| Material                                     | Case hardened steel with heat treatment, zinc plated $\geq 8 \mu\text{m}$ according to EN ISO 4042      |
| Fire class                                   | A1 according to EN 13501-1 for metal screw                                                              |

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

**LR ETANCO**  
**66 route de Sartrouville – BP49**  
**78231 Le Pecq Cedex**  
**France**

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

**Not relevant**

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

**System 3**

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

**S.Z.U. notified body n°1404 issued the certificate J-30-20420-11 on the basis of EN 14592:2009.**

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

**Not relevant**

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### 9. Declared Performances:

| Essential characteristics – EN 14592:2009         |                                                                                                                                   | Performance |       |       |       |        |        |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------|-------|-------|-------|--------|--------|
| Installation parameters                           |                                                                                                                                   | Ø3          | Ø3,5  | Ø4    | Ø4,5  | Ø5     | Ø6     |
| <b>d<sub>h</sub></b>                              | Head diameter [mm]                                                                                                                | 6           | 7     | 8     | 9     | 10     | 12     |
| <b>d<sub>i</sub></b>                              | Inner thread diameter [mm]                                                                                                        | 1,88        | 2,13  | 2,48  | 2,68  | 2,98   | 3,68   |
| <b>d<sub>s</sub></b>                              | Screw body diameter [mm]                                                                                                          | 2,14        | 2,52  | 2,82  | 3,18  | 3,48   | 4,24   |
| <b>L</b>                                          | Screw length [mm]                                                                                                                 | 18-50       | 25-50 | 25-70 | 30-80 | 30-100 | 40-200 |
| Mechanical characteristics                        |                                                                                                                                   |             |       |       |       |        |        |
| <b>M<sub>y,k</sub></b>                            | Characteristic yield moment [Nmm]                                                                                                 | 1695        | 2283  | 3358  | 5361  | 6276   | 12320  |
| <b>f<sub>ax,k</sub></b>                           | Characteristic withdrawal parameter ( $\rho_k = 410 / 430 / 430$ / 430 / 430 / 430 kg/m <sup>3</sup> ) [N/mm <sup>2</sup> ]       | 20,83       | 22,26 | 20,00 | 18,10 | 16,85  | 14,37  |
| <b>f<sub>head,k</sub></b>                         | Characteristic head pull-trough parameter ( $\rho_k = 480 / 480 / 515 / 515 / 510 / 530$ kg/m <sup>3</sup> ) [N/mm <sup>2</sup> ] | 46,37       | 37,41 | 38,44 | 29,96 | 28,89  | 24,98  |
| <b>f<sub>tens,k</sub></b>                         | Characteristic tensile capacity [kN]                                                                                              | 3,55        | 4,12  | 5,06  | 6,67  | 8,66   | 11,49  |
| <b>f<sub>tor,k</sub>/R<sub>tor,k</sub></b>        | Characteristic ratio torsional ( $\rho_k = 450$ kg/m <sup>3</sup> ) [-]                                                           | 2,16        | 1,97  | 1,77  | 2,09  | 2,06   | 2,61   |
| Design method Eurocode 5 EN 1995-1-1:2008 – §.8.7 |                                                                                                                                   |             |       |       |       |        |        |

We inform you that LR ETANCO is classified in the EC 1907/2006 Reach Directive as a Downstream-user of substances. The product supplied does not contain substances classified as SVHC according to the Candidate List in a concentration equal or greater than 0.1% (weight / weight). Article 31 is not applicable to the present product.

10. The performance of the product identified in points 1 and 2 is in conformity with declared performance in the point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and behalf of the manufacturer by:

|                                          |                              |  |
|------------------------------------------|------------------------------|--|
| <b>Benoit Cheramy</b><br>Product Manager | Le Pecq – France, 2013-09-24 |  |
|------------------------------------------|------------------------------|--|