

# Declaration of Performance LE026C

according to Regulation (EU) no. 305/2011

| General data   |  |  |   |   |      |
|--|--|--|---|---|------|
| Unique identification code of the product-type                 | RAPID® Hardwood  |  |   |   |      |
| Intended use   | Screws as timber fasteners for load-carrying timber structures                 |  |   |   |      |
| Manufacturer   | Schmid Schrauben Hainfeld GmbH, A-3170 Hainfeld, Landstal 10, www.schrauben.at |  |   |   |      |
| AVCP - System  | 3  |  |   |   |      |
| European / UK assessment document                              | EAD 130118-01-0603 of February 2019  | UKAD 130118-01-0603  |   |   |      |
| European / UK technical assessment                             | <b>ETA-12/0373</b> of 30.03.2022   | <b>UKTA-0836-22/6490</b> of 18.11.2022   |   |   |      |
| European / UK technical assessment body                        | Austrian Institute of Construction Engineering (OIB)                           | British Board of Agrément (BBA)  |   |   |      |
| Notified body  | NB 1379  | NB 0836  |   |   |      |
| Declared performances  |  |  |   |   |      |
| Essential characteristics                                      | Unit   | Performance<br>( $\rho_k = 350 \text{ kg/m}^3$ e.g. C24)   | Performance<br>( $\rho_k, D50 = 620 \text{ kg/m}^3$ ) | Performance<br>( $\rho_k, \text{FSH-Bu} = 730 \text{ kg/m}^3$ ) |      |
| Dimension d  | mm   | Ø 8,0  |   |   |      |
| Tensile strength $f_{\text{tens},k}$                           | kN   | 32.8   |   |   |      |
| Yield moment $M_{y,k}$   | Nm   | 42.8   |   |   |      |
| Bending angle  | °  | >45°   |   |   |      |
| Withdrawal parameter $f_{\text{ax},k}$                         | $f_{\text{ax},k,90^\circ}$   | N/mm <sup>2</sup>  | 13.1  | 38.3  | 49.2 |
|  | $f_{\text{ax},k,0^\circ}$  | N/mm <sup>2</sup>  | 3.9   | 11.5  | 14.8 |
| Yield strength $f_{y,k}$                                       | N/mm <sup>2</sup>  | 950  |   |   |      |
| Torsional strength $f_{\text{tor},k}$                          | Nm   | 39.5   |   |   |      |
| Insertion moment ( $f_{\text{tor},k}/R_{\text{tor,mean}}$ )    | -  | >1,5   |   |   |      |
| Slip modulus $K_{\text{ser}}$ for mainly axially loaded screws | -  | $K_{\text{ser}} = 25 * d * I_{\text{ef}} \dots$ in N/mm for softwood;<br>$K_{\text{ser}} = 53 * d * I_{\text{ef}} \dots$ in N/mm for LVL-beech;<br>Hardwood according to ETA-12/0373 Tab A6.12 |   |   |      |
| Reaction to fire   | -  | A1   |   |   |      |
| Corrosion protection   | Service class  | II   |   |   |      |
| Countersunk-head head diameter $d_k$                           | mm   | Ø 15,0   | Ø 15,0  | Ø 15,0  |      |
| Head pull-through parameter $f_{\text{head},k}$                | N/mm <sup>2</sup>  | 12.4   | 40.4  | 46.0  |      |
| Washer-head head diameter $d_k$                                | mm   | Ø 22,0   | Ø 22,0  | Ø 22,0  |      |
| Head pull-through parameter $f_{\text{head},k}$                | N/mm <sup>2</sup>  | 20.4   | 53.8  | 60.8  |      |

V2

The performance of the above-mentioned products is in conformity with the performance declared.

The above-mentioned manufacturer is solely responsible for the preparation of the declaration of performance in accordance with Regulation (EU) No 305/2011.



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| AVCP - System                                  | 3  |   |                       |  |             |   |
| European / UK assessment document              | EAD 130118-01-0603 of February 2019  |   |                       | UKAD 130118-01-0603                                |             |   |
| European / UK technical assessment             | ETA-12/0373 of 30.03.2022  |   |                       | UKTA-0836-22/6490 of 18.11.2022                    |             |   |
| European / UK technical assessment body        | Austrian Institute of Construction Engineering (OIB)                           |   |                       | British Board of Agrément (BBA)                    |             |   |
| Notified body                                  | NB 1379  |   |                       | NB 0836  |             |   |
| Declared performances                          |  |   |                       |  |             |   |
| Minimum spacings of screws                     |  | Axial loaded screws   |                       | Shear and axial loaded or only shear loaded screws |             |   |
|  |  | Softwood, hardwood, wood-based materials (predrilled, not-predrilled) |                       | Cross laminated timber                             |             | Softwood, hardwood, wood-based materials (predrilled, not-predrilled)                                 |
|  |  | end-grain and side-grain  |                       | wide face  | narrow face | end-grain and side-grain  |
| Requirement                                    | a1 x a2  | ≥ 25 x d <sup>2</sup>   | ≥ 21 x d <sup>2</sup> | -  | -           | -   |
| Spacings //                                    | a1   | 5 x d   | 7 x d                 | 4 x d  | 10 x d      | Analogous to predrilled nails or analogous to not-predrilled nails according to EN1995-1-1, table 8.2 |
| Edge distances //                              | a1, c  | 5 x d   |                       | -  | -           |   |
| Spacings ⊥                                     | a2   | 2,5 x d   | 3 x d                 | 2,5 x d  | 3 x d       |   |
| Edge distances ⊥                               | a2, c  | 4 x d   |                       | -  | -           |   |
| Edge distances // loaded                       | a3, t  | -   | -                     | 6 x d  | 12 x d      |   |
| Edge distances // unloaded                     | a3, c  | -   | -                     | 6 x d  | 7 x d       |   |
| Edge distances ⊥ loaded                        | a4, t  | -   | -                     | 6 x d  | 5 x d       |   |
| Edge distances ⊥ unloaded                      | a4, c  | -   | -                     | 2,5 x d  | 3 x d       |   |
| Spacing between crossing screws                | a cross  | 1,5 x d   |                       |  |             |   |

The performance of the above-mentioned products is in conformity with the performance declared.

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Signed for the manufacturer on the manufacturer's behalf:



Dr. Johann Scheibenreiter

Hainfeld, 30.3.2022

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Dr. Johann Scheibenreiter

Supplement UKCA, values from 30.3.2022 are unchanged

Hainfeld, 30.3.2022

