



EN

DECLARATION OF PERFORMANCE

No. Hilti-DX-DoP-307

1. **Unique identification code of the product-type:** Hilti wood nail GX-WF [ln] x 2.8 RD 34 HDG

2. **Type, batch or serial number or any other element allowing identification of the construction product:** Type and lot number are displayed on the packaging

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

| | |
|-----------------|--|
| Intended use | Round cross-sectional profiled nails with straight shank for use in load bearing timber structures |
| Tensile loading | Permanent (>10 years) |
| Shear loading | Permanent (>10 years) |

4. **Name, registered trade name or registered trade mark and contact address of the manufacturer:** Hilti Aktiengesellschaft, Business Unit Direct Fastening, 9494 Schaan, Fürstentum Liechtenstein

5. **Where applicable, name and contact address of the authorised representative whose mandate covers the tasks:** n/a

6. **System or systems of assessment and verification of constancy of performance of the construction product:** System 3

7. **In case of the declaration of performance concerning a construction product covered by a harmonized standard:** VHT (1503)/ Testing Laboratory 1045.1 performed the third party tasks under system 3 and issued ITT in accordance with BS EN 14592+A1:2012 (E).

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 | Declared performance | Harmonized standard | |
|--|--|---------------------|--|
| Material | | | |
| Characteristic strength of wire f_u | $\geq 600 \text{ N/mm}^2$ | BS EN 14592+A1:2012 | |
| Geometry | | | |
| Head cross-sectional area A_h | 29.40 mm^2 | | |
| Diameter | 2.8 mm | | |
| Available length l_n | 51, 63, 75, 80 mm | | |
| Length of profiling/ threading l_g | 34, 46, 58, 63 mm | | |
| Maximum point length l_p | 4.6 mm | | |
| Mechanical strength and stiffness | | | |
| Characteristic yield moment $M_{y,k}$ | 2675 Nmm | | |
| Characteristic withdrawal parameter $f_{ax,k}^{1), 2)}$ | 6.9 N/mm^2 | | |
| Characteristic head pull-through parameter $f_{head,k}^{1)}$ | 21 N/mm^2 | | |
| Characteristic tensile capacity $f_{tens,k}$ | NPD | | |
| Durability | Service class 3 acc. to BS EN 1995-1-1 | | |

¹⁾ Timber with characteristic density $\rho_k = 350 \text{ kg/m}^3$, ²⁾ Coating type: 1



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:

A handwritten signature in blue ink, appearing to read "M. Grazioli". The signature is fluid and cursive, with a long vertical stroke at the end.

Mario Grazioli
Head of Quality
Business Unit Direct Fastening
Hilti Aktiengesellschaft, Schaan, 07/2022