



EN

## DECLARATION OF PERFORMANCE

No. Hilti-DX-DoP-322

1. **Unique identification code of the product-type:** Hilti wood nail GX-WF [In] x 2.8 R 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
<b>Material</b>		
Characteristic strength of wire $f_u$	$\geq 600 \text{ N/mm}^2$	BS EN 14592+A1:2012
<b>Geometry</b>		
Head cross-sectional area $A_h$	$32.2 \text{ mm}^2$	
Diameter	2.8 mm	
Available length $l_n$	55, 65, 80 mm	
Length of profiling/ threading $l_g$	38, 48, 63 mm	
Maximum point length $l_p$	4.6 mm	
<b>Mechanical strength and stiffness</b>		
Characteristic yield moment $M_{y,k}$	2675 Nmm	
Characteristic withdrawal parameter $f_{ax,k}^{1)}$	$6.9 \text{ N/mm}^2$	
Characteristic head pull-through parameter $f_{head,k}^{1)}$	$22.4 \text{ N/mm}^2$	
Characteristic tensile capacity $f_{tens,k}$	NPD	
Durability	Service class 3 acc. to BS EN 1995-1-1	

<sup>1)</sup> Timber with characteristic density  $\rho_k = 350 \text{ kg/m}^3$ , <sup>2)</sup> 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