



EN

DECLARATION OF PERFORMANCE

according to Annex III of the Regulation (EU) Nr. 305/2011 (Construction Products Regulation)
No. Hilti-DX-DoP-221

- 1. Unique identification code of the product-type:** Hilti wood nail GX-WF [ln] x 3.1 RD 34 HDG
- 2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):** 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 as required pursuant to Article 11(5):** 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 specified in Article 12(2):** n/a
- 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:** VHT (1503)/ Testing Laboratory 1045.1 performed the third party tasks as set out in Annex V under system 3 and issued ITT in accordance with EN 14592:2008+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	$\geq 600 \text{ N/mm}^2$	EN 14592:2008+A1
Geometry		
Head cross-sectional area A_h	29.40 mm ²	
Diameter	3.1 mm	
Available length l_n	63, 75, 80, 90 mm	
Length of profiling/ threading l_g	46, 58, 63, 73 mm	
Maximum point length l_p	4.9 mm	
Mechanical strength and stiffness		
Characteristic yield moment $M_{y,k}$	2772 Nmm	
Characteristic withdrawal parameter $f_{ax,k}^{1), 2)}$	9.0 N/mm ²	
Characteristic head pull-through parameter $f_{head,k}^{1)}$	27 N/mm ²	
Characteristic tensile capacity $f_{tens,k}$	NPD	
Durability	Service class 3 acc. to 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, 12/2020