

Declaration of Performance

DoP



VORMANN
SCHARNIERE · BESCHLÄGE

DoP Nr.: DoP-ETA-023

1. **Type of product:** Ring shank nails $\varnothing 4,0 \times 040\text{mm}/50\text{mm}/60\text{mm}$
2. **Intended use:** for connections in load bearing timber structures, see ETA 23/0043 paragraph 2
3. **Manufacturer:** August Vormann GmbH Co. KG
Heilenbecker Straße 191 – 205
DE-58256 Ennepetal
4. **Authorised representative:** not applicable
5. **System of constancy of performance:** 2+
6. **Harmonised standard:** not applicable
7. **Notified Body:** The Technical Assessment Body ETA-Danmark A/S has been issued: **ETA-23/0043**.
Based on the European Assessment Document EAD 130033-00-0603 has the MPA Stuttgart NB-Nr. 0672 has made the first inspection of the factory, the factory production control and also the continuing surveillance, assessment and evaluation under system 2+ and issued: certificate of conformity of the factory production control 0672-CPR-0967.

8. **Declared performance:**

Essential characteristics	Performance		Technical specification
Measurements - Diameter - Length	- \varnothing 4 mm - 40 - 60 mm		ETA 23/0043 EAD 130033-00-0603
Mechanical resistance and stability - Characteristic yield moment $M_{y,k}$ - Characteristic pull-out parameter $f_{ax,k}$ - \varnothing 4 x 40mm / \varnothing 4 x 50mm / \varnothing 4 x 60mm Characteristic density of wood 350kg/m ³ - Characteristic tensile strength $f_{tens,k}$	= 6.500 Nmm 900N / 1.200N / 1.500N = 6,9 kN		ETA 23/0043 EAD 130033-00-0603
- Characteristic load-carrying capacity f_v, R_k - \varnothing 4 x 40mm - \varnothing 4 x 50mm - \varnothing 4 x 60mm Characteristic density of wood 350kg/m ³	thin 1.185 N 1.488 N 1.790 N	thick 1.890 N 2.214 N 2.364 N	ETA 23/0043 EAD 130033-00-0603
Durability	- zinc plated(galvanized) min. 7 μ m		Service class 1 & 2, EN 1995-1-1 ETA 23/0043 paragraph II
Material, Steel grade	- C9D		

NPD – No performance determined

9. The performance of the above product corresponds to the declared performance(s). The manufacturer named above is solely responsible for preparing the declaration of performance in accordance with Regulation (EU) No. 305 / 2011


Thomas Vormann
Managing Director

Signed for and on behalf of the manufacturer by:

Elsterwerda, 14.06.2023