



# Declaration of Performance

DoP



**VORMANN**  
SCHARNIERE · BESCHLÄGE

DoP Nr: DoP – 011

1. **Type of product:** Ring shank nails
2. **Trade Name:** Ring shank nails 43 x 40 040-100
3. **Intended use:** Timber structures - Dowel-type fasteners, see DIN EN 14592:2012-07
4. **Manufacturer:** August Vormann GmbH Co. KG  
Heilenbecker Straße 191 – 205  
DE-58256 Ennepetal
5. **Authorised representative:** not applicable
6. **System of constancy of performance:** 3
7. **Harmonised standard:** DIN EN 14592:2012-07
8. **Notified Body:** The notified Body TÜV Rheinland LGA Baustoff und Bautechnologie, NB-NR. 0197, has made the first inspection on the Construction Products Regulation. Audit report Nr. 69610033
9. **Declared performance:** DIN EN 14592:2012-07 Timber structures - Dowel-type fasteners, Ring shank nails with round profile for load-bearing timber products

Essential characteristics	Performance	EN Norm
<b>Measurements</b> - Diameter - Length	- 4 mm - 40 – 100 mm	
<b>Mechanical resistance and stability</b> - Characteristic yield moment - Characteristic pull-out parameter - Characteristic head pull-through parameter - Characteristic tensile strength	- $M_{y,k} = 7503 \text{ Nmm}$ - $f_{ax,k} = 9,8 \text{ N/mm}^2$ - $f_{head,k} = 19,0 \text{ N/mm}^2$ - $f_{tens,k} = 667 \text{ N/mm}^2$	EN 14592:2012-07 paragraph 6.1.4
<b>Durability</b>	- galvanized steel - Stainless steel	- Service class 2 EN 1995-1-1 - Service class 3 EN 1995-1-1
<b>Material, Steel grade</b>	- Wire rod from unalloyed steel $R_m \geq 600 \text{ N/mm}^2$  - Wire rod from stainless steel $R_m \geq 600 \text{ N/mm}^2$	- EN 10346 - EN 14545:2008 paragraph 6.3.1  - EN 10088-2 - EN 14545:2008 paragraph 6.3.1

This Declaration of Performance is available at [www.vormann.com](http://www.vormann.com)

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. 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:

  
Thomas Vormann  
Managing Director

Elsterwerda, 23rd April 2015