

**DECLARATION OF PERFORMANCE**  
according to Annex III to Regulation (EU) No. 305/2011



for the product "WOLF Nailplate"

**No.: N172013**

1. Unique product identification code: 20ZE
2. Type: -
3. Intended use: Nailplates for structural timber products
4. Manufacturer: Wolf Systembau Gesellschaft m.b.H  
Fischerbühel 1  
A 4644 Scharnstein
5. Authorised representative: -----
6. Constancy of performance: System 2+
7. The approved body KIT Karlsruhe – NB 0769 – performed the initial inspection of the manufacturing plant and the factory production control with continuous surveillance, assessment and approval of the factory production control under system 2+ and issued the respective certificate of conformity of the factory production control.
8. European Technical Assessment: not applicable
9. Declared performance:

| Essential characteristics         | Performance | (Harmonised) technical specification |
|-----------------------------------|-------------|--------------------------------------|
| Geometrical tolerances            | Article 5   | EN14545                              |
| Performance under fire conditions | Class A1    | DIN 4102-1                           |
| Material                          | 1.4401      | EN10088                              |

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**Structural characteristics**

|   |  |  |        |
|---|--|--|--------|
| - Characteristic plate anchorage capacity with characteristic density $\rho_K$ of 350 kg/m <sup>3</sup> | $(f_{a,0,0}; f_{a,90,90}; k_1; k_2; \alpha_0)$ | 1.56 N/mm <sup>2</sup> ;<br>0.93 N/mm <sup>2</sup> ;<br>-0.0097; 0.0;<br>48,5° | EN1075 |
| - Characteristic plate tension capacity   | $(f_{t,0}; f_{t,90})$                          | 709 N/mm;<br>283 N/mm;   | EN1075 |
| - Characteristic plate compression capacity   | $(f_{c,0}; f_{c,90})$                          | 131 N/mm;<br>120 N/mm;   | EN1075 |
| - Characteristic plate shear capacity   | $(f_{v,0}; f_{v,90}; k_{v,\gamma_0})$          | 88 N/mm;<br>91 N/mm;<br>0.26; 24°  | EN1075 |
| - Slip modulus at a mean timber density $\rho_m$ of 350 kg/m <sup>3</sup>                               | $(k_{ser})$                                    | 2.8 N/mm <sup>3</sup>  | EN1075 |
| - Nail root ductility   | -  | Passed   | EN1075 |

10. The performance of the product identified in 1. and 2. is in conformity with the declared performance in 9. The declaration of performance is issued under the sole responsibility of the manufacturer identified in 4.

Signed for and on behalf of the manufacturer by:

Factory production control certificate No.: 0769-CPR-6118/01

Berthold Stadler, Head of the metal construction department

Place/Date:

Scharnstein, 03.04.2023

Wolf Systembau Gesellschaft m.b.H.  
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 4644 Scharnstein

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