

DECLARATION OF PERFORMANCE

Regulation (EU) no 305/2011

No. LE_0198310_02_M_Wupo

1. Unique identification code of the product type:

Wüpofast screws

1a. Valid for Würth Art. Pre-no:

0171, 0172, 0174, 0176, 0183, 0186, 0195, 0196, 0198

except articles with thread length < 4xd

2. Intended use/es:

Self-tapping screws to be used for structural connections in timber constructions

3. Manufacturer:

**Würth International AG
Aspermontstrasse 1
7000 Chur, Switzerland**

4. Authorised representative:

not relevant

5. System/s of AVCP:

System 3

6a. Harmonised standard:

EN 14592:2008+A1:2012

Notified Body/ies:

Strojírenský zkušební ústav, s.p. (No. 1015)

6b. European Assessment Document:

not relevant

European Technical Assessment:

not relevant

Technical Assessment Body:

not relevant

Notified Body/ies:

not relevant

7. Declared performance/s:

Nominal diameter		d_1 (mm)	3	3.5	4	4.5
Core diameter	d_2 (mm)		2	2.2	2.5	2.8
Head diameter	d_k (mm)		5.8	6.8	7.7	8.7
Characteristic yield moment	$M_{y,k}$ (Nm)		1.5	2.5	3.0	5.0
Characteristic tensile capacity	$f_{tens,k}$ (kN)		3.3	4.5	5.0	6.0
Characteristic head pull-through parameter	$f_{head,k}$ (N/mm ²)		23	23	23	22.5
Characteristic density of wood	ρ_k (kg/m ³)		400	400	400	400
Characteristic withdrawal parameter						
Parallel to the grain	$f_{ax,k}$ (N/mm ²)		12.0	12.0	12.0	13.0
Perpendicular to the grain	$f_{ax,k}$ (N/mm ²)		16.0	16.0	16.0	16.0
Characteristic density of wood	ρ_k (kg/m ³)		400	400	400	400
Characteristic torsional ratio	$f_{tor,k} / R_{tor,k}$		4.0	3.5	3.0	4.5
Characteristic density of wood	ρ_k (kg/m ³)		400	400	400	400

Nominal diameter		d_1 (mm)	5	6	8	10
Core diameter	d_2 (mm)		3.2	3.95	5.3	6.3
Head diameter	d_k (mm)		9.7	11.7	14.7	18.2
Characteristic yield moment	$M_{y,k}$ (Nm)		7.0	11.0	26.0	31.0
Characteristic tensile capacity	$f_{tens,k}$ (kN)		8.0	12.0	24.0	35.0
Characteristic head pull-through parameter	$f_{head,k}$ (N/mm ²)		13.5	13.5	13.5	13.5
Characteristic density of wood	ρ_k (kg/m ³)		350	350	350	350
Characteristic withdrawal parameter						
Parallel to the grain	$f_{ax,k}$ (N/mm ²)		16.0	15.5	14.0	13.0
Perpendicular to the grain	$f_{ax,k}$ (N/mm ²)		13.0	13.0	10.0	10.0
Characteristic density of wood	ρ_k (kg/m ³)		350	350	350	350
Characteristic torsional ratio	$f_{tor,k} / R_{tor,k}$		3.5	3.5	3.3	3.3
Characteristic density of wood	ρ_k (kg/m ³)		350	350	350	350

Durability (i.e. corrosion protection)

galvanized zinc coatings according to ISO 2081 (service class 1 - 2 according to EN 1995-1-1)

Material: wire rod of unalloyed steel according to EN 10083-2

characteristic tensile strength of wire (f_u) according to EN 10218-1, min 500 N/mm²

8. Appropriate Technical Documentation and/or Specific Technical Documentation:

not relevant

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Norbert Cillik

Expert of Product Management & Quality



Heiner Faust

Managing Director

Chur: 01.10.2020