

# Declaration of Performance - DoP

## BasicScrew, Outdoor - Wood Screw

318-2020-1

- 1 Unique identification code of the product-type: NKT Fasteners - Basic Screw Outdoor
- 2 Intended use: For load-bearing wooden structures according to Eurocode 5
- 3 Manufacturer: ITW Construction Products ApS, Gl. Banegaardsvej 25, DK-5500 Middelfart
- 5 System of AVCP: 3
- 6a. Harmonized standard: EN 14592:2008+A1:2012

Notified bodies:

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no. 1235  
Gregersensvej 1  
DK-2630 Taastrup

VHT Versuchsanstalt für Holz und  
Trockenbau no. 1503  
Annastrasse 18  
DE-64285 Darmstadt

Strojirensky zkusebni ustav, s.p.  
no. 1015  
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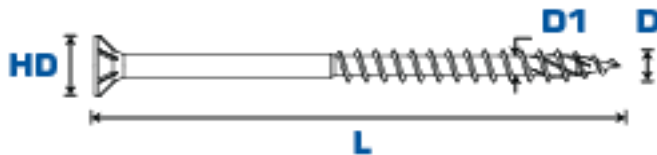
7. Declared performance: See table 1

The performance of the product identified above is in conformity with the set of declared performances. 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:

Flemming Sørensen  
Technical Manager  
Middelfart, 24.09.2020

### BasicScrew, Outdoor Wood Screw



Service Class:	3
Symbol	
C-class	C4
Corrosion protection	Outdoor
Material:	AISI 1022
Steel standard	ASTM A510

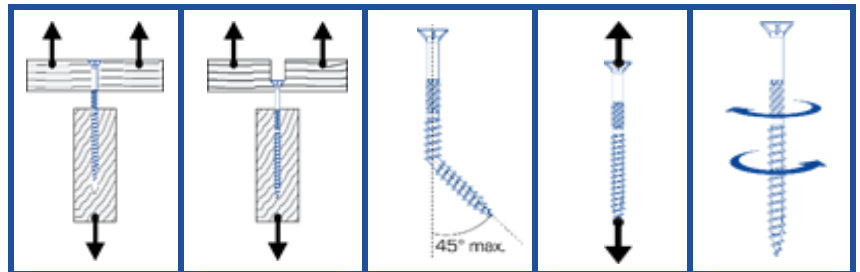


Table 1:

Nominal diameter d [mm]	Length L [mm]	Core diameter d1 [mm]	Head diameter HD [mm]	Withdrawal strength $f_{ax,k}$ [N/mm <sup>2</sup> ]	Head pull through $f_{head,k}$ [N/mm <sup>2</sup> ]	Yield moment $M_{y,k}$ [Nmm]	Tensile strength $f_{tens,k}$ [kN]	Torsional ratio $f_{tor,k}/R_{tor,k}$
3,5	≤50	2,3	8,0	9,0	10,8	1800	2,5	1,5
4,0	≤70	2,5	8,0	10,5	11,7	2600	4,8	2,1
4,5	≤80	2,8	8,5	8,9	13,5	3900	6,0	2,8
5,0	≤120	3,2	9,6	9,3	11,2	5400	7,7	2,6
6,0	≤150	3,9	11,4	9,2	9,4	9800	12,6	2,8

The declared values according to EN 14592:2008 + A1:2012.  $f_{ax,k}$  and  $f_{head,k}$  and torsional ratio are tested at a characteristic wood density of 350 kg/m<sup>3</sup>. Screws covered by this DoP holds a threaded length of >4d.

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