

## DECLARATION OF PERFORMANCE Nr 019/2021

- 1. Unique identification code of the product-type:** WDSWPZ, WDSPZ, WDSWTX, WDSTX, WDKPZ
- 2. Intended use/es:** Screws for timber structures.
- 3. Manufacturer:** P.H. HAMAR Sp. J. B. i H. Grzesiak, ul. Hutnicza 7, 81-061 Gdynia, Poland
- 4. System of AVCP:** System 3
- 5. Harmonised standard:** EN 14592:2008+A1:2012  
**Notified Body:** Strojirenský zkušební ústav, s.p. 621 00 Brno, Czech Republic, no. 1015
- 6. Declared performance:**

Essential characteristic	Performance					
Material	Carbon steel C1018/C1022					
Diameter (d) [mm]	3,0; 3,5; 4,0; 4,5; 5,0; 6,0					
Corrosion resistance	Type of coating					
	Zinc plate, thickness min. 8 µm, acc. to DIN EN ISO 4042:2018 Service Class 1 acc. to EN 1995-1-1			Zinc plate, thickness min. 8 µm, acc. to DIN EN ISO 4042:2018 Service Class 1 and 2 acc. to EN 1995-1-1		
Thread diameter (d) [mm]	3,0	3,5	4,0	4,5	5,0	6,0
Characteristic yield moment ( $M_{y,k}$ ) [Nmm]	1 877	2 621	3 761	5 934	7 390	11 230 thread section 15 382 smooth section
Characteristic withdrawal parameter ( $f_{ax,k}$ ) [N/mm <sup>2</sup> ], for wood $\rho_k$ 350 [kg/m <sup>3</sup> ] perpendicular/parallel to the grain	17,50/14,70	16,78/13,19	16,49/13,10	16,13/13,64	15,98/13,90	15,54/13,98
Characteristic head pull-through parameter ( $f_{head,k}$ ) [N/mm <sup>2</sup> ], for wood $\rho_k$ 350 [kg/m <sup>3</sup> ]	27,57 csk head 32,98 pan head	26,83 csk head 31,37 pan head	25,49 csk head 29,19 pan head	24,58 csk head 27,09 pan head	23,33 csk head 26,10 pan head	21,56 csk head 24,48 pan head
Characteristic tensile capacity ( $f_{tens,k}$ ) [kN]	3,83	4,24	5,57	7,47	8,97	12,49
Characteristic torsional ratio ( $f_{tor,k}/R_{tor,k}$ ), for wood $\rho_k$ 450 [kg/m <sup>3</sup> ]	2,18	3,32	2,68	3,45	3,01	2,07

Harmonised technical specification PN - EN 14592:2008+A1:2012

**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:

Gdynia, 08.11.2021


  
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 Bogusław Grzesiak - Partner