

**DoP N° 017/2018**
**1. Unique Product identification code:**

WDSPZ, WDSWPZ, WDSTX, WDSWTX, WDKPZ

**2. Intended use or uses:**

The mechanical fasteners intended to be used for different non-construction materials fastening to the wood.

**3. Manufacturer:**

P.H. HAMAR Sp.J. B i H Grzesiak, ul. Hutnicza 7, 81-061 Gdynia, Poland

**4. Authorized representative: NA**
**5. System or systems of assessment and verification of constancy of performance: System 3**
**6. Harmonized standard: EN 14592:2008+A1:2012**
**Certified unit:** STROJIRENSKY ZKUSEBNI USTAV, s.p. (Notified Body No. 1015), Hudcova 424/56b, 621 00 BRNO, Czech Republic.

**7. Declared performance:**

Main characteristics		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 plated Class 1 acc. EN 1995-1-1			Zinc plated Class 1 and 2 acc. EN 1995-1-1	
Thread diameter (d) [mm]	3,0	3,5	4,0	4,5	5,0	6,0
Length (L) [mm]	15 - 50	18 - 60	21 - 80	23 - 100	26 - 150	30 - 300
Characteristic yield moment $M_{y,k}$ [Nmm]	1930	2669	3383	5265	8742	14878
Characteristic withdrawal parameter ( $f_{ax,k}$ ) [N/mm <sup>2</sup> ], for wood $\rho_k$ 350[kg/m <sup>3</sup> ] across /along the fibres	16,78 / 10,02	16,84 / 10,50	16,31 / 11,64	16,44 / 10,69	16,09 / 12,37	16,04 / 11,52
Characteristic head pull- through parameter ( $f_{head,k}$ ) [N/mm <sup>2</sup> ], for wood $\rho_k$ 380*/400** [kg/m <sup>3</sup> ]	27,31* flat csk head	26,30*/32,77* flat csk / pan head	26,28*/30,92* flat csk / pan head	23,76*/28,94* flat csk / pan head	23,14**/27,74** flat csk / pan head	20,71** flat csk head
Characteristic tension capacity ( $f_{tens,k}$ ) [kN]	4,38	4,70	5,64	7,98	10,04	14,76
Characteristic torsional ratio for wood $\rho_k$ 450[kg/m <sup>3</sup> ] ( $f_{tor,k} / R_{tor,k}$ )	2,47	1,90	2,39	2,96	2,75	2,42
<b>Flat csk head</b>				<b>Pan head</b>		
<b>WDSPZ</b>	<b>WDSWPZ</b>	<b>WDSTX</b>	<b>WDSWTX</b>	<b>WDKPZ</b>		

 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, November 22<sup>nd</sup>, 2018


  
 Bogusław Grzesiak - Partner