



DECLARATION OF PERFORMANCE

No. 2018-001

1. Unique identification code of the product type: *WT, WTB, WTZ, WTZB*
2. Intended use/es: *universal/construction wood screws, screws for structural wood products*.....
3. Manufacturer: *ARVEX GROBELNY Sp. z o.o.*.....
ul. Makuszyńskiego 4, 30-969 Krakow, POLAND.....
4. Authorised representative: -----
5. System/s of AVCP: *system 3*.....
- 6a. Harmonised standard: *PN-EN 14592+A1:2012 - „Timber structures – Dowel-type fasteners – Requirements”, 2012*
- Notified Body/ies: *1488, certificate of accreditation AB 023, Zakład Elementów Konstrukcji Budowlanych i Budownictwa na Terenach Górniczych, Laboratorium Łączników i Wyrobów Budowlanych (LOK) Instytutu Techniki Budowlanej, Poland.*
1015, certificate of accreditation 292/2016, Strojírenský Zkušební Ústav, s.p., Czech Republic.
- 6b. European Assessment Document: -----
- European Technical Assessment: -----
- Technical Assessment Body: -----
- Notified Body/ies: -----
7. Declared performance:

Essential characteristics	Product type	Size*	Performance	Harmonised technical specification
Characteristic yield moment – $M_{y,k}$	WT, WTB	3.0/xx	1800 [Nmm]	PN-EN 14592+A1:2012
		3.5/xx	2255 [Nmm]	
		4.0/xx	3785 [Nmm]	
		4.5/xx	5017 [Nmm]	
	WT, WTB, WTZ, WTZB	5.0/xx	8088 [Nmm]	
		6.0/xx	14488 [Nmm]	
		8.0/xx	31299 [Nmm]	
10.0/xx	56660 [Nmm]			
Characteristic withdrawal parameter for loading across the fibre – $f_{ax,k}$ [for characteristic density of wood $\rho_k = 350 \text{ kg/m}^3$]	WT, WTB	3.0/xx	16.99 [N/mm ²]	
Characteristic withdrawal parameter for loading across the fibre – $f_{ax,k}$ [for characteristic density of wood $\rho_k = 370 \text{ kg/m}^3$]	WT, WTB	3.5/xx	18.09 [N/mm ²]	PN-EN 14592+A1:2012
		4.0/xx	18.79 [N/mm ²]	
		4.5/xx	17.80 [N/mm ²]	
		5.0/xx	19.70 [N/mm ²]	
	WT, WTB, WTZ, WTZB	6.0/xx	10.47 [N/mm ²]	
		8.0/xx	11.99 [N/mm ²]	
		10.0/xx	13.37 [N/mm ²]	
Characteristic withdrawal parameter for loading along the fibre – $f_{ax,k}$ [for characteristic density of wood $\rho_k = 350 \text{ kg/m}^3$]	WT, WTB	3.0/xx	11.14 [N/mm ²]	
Characteristic withdrawal parameter for loading along the fibre – $f_{ax,k}$ [for characteristic density of wood $\rho_k = 370 \text{ kg/m}^3$]	WT, WTB	3.5/xx	12.07 [N/mm ²]	PN-EN 14592+A1:2012
		4.0/xx	11.49 [N/mm ²]	
		4.5/xx	11.42 [N/mm ²]	
		5.0/xx	13.31 [N/mm ²]	
	WT, WTB, WTZ, WTZB	6.0/xx	7.21 [N/mm ²]	
		8.0/xx	7.76 [N/mm ²]	
		10.0/xx	7.98 [N/mm ²]	

Characteristic head pull-through parameter – $f_{head,k}$ [for characteristic density of wood $\rho_k = 380 \text{ kg/m}^3$]	WT, WTB	3.0/xx	24.67 [N/mm ²]	PN-EN 14592+A1:2012
Characteristic head pull-through parameter – $f_{head,k}$ [for characteristic density of wood $\rho_k = 400 \text{ kg/m}^3$]	WT, WTB	3.5/xx	24.46 [N/mm ²]	
		4.0/xx	22.66 [N/mm ²]	
		4.5/xx	21.66 [N/mm ²]	
		5.0/xx	21.81 [N/mm ²]	
Characteristic head pull-through parameter – $f_{head,k}$ [for characteristic density of wood $\rho_k = 350 \text{ kg/m}^3$]	WT, WTB	6.0/xx	17.91 [N/mm ²]	
		8.0/xx	18.17 [N/mm ²]	
		10.0/xx	19.05 [N/mm ²]	
	WTZ, WTZB	6.0/xx	19.74 [N/mm ²]	
		8.0/xx	21.32 [N/mm ²]	
		10.0/xx	21.89 [N/mm ²]	
Characteristic tensile capacity – $f_{tens,k}$	WT, WTB	3.0/xx	3.91 [kN]	PN-EN 14592+A1:2012
		3.5/xx	4.34 [kN]	
		4.0/xx	6.25 [kN]	
		4.5/xx	7.65 [kN]	
		5.0/xx	10.25 [kN]	
	WT, WTB, WTZ, WTZB	6.0/xx	11.76 [kN]	
		8.0/xx	23.20 [kN]	
		10.0/xx	35.79 [kN]	
Characteristic torsional ratio ($f_{tor,k} / R_{tor,k}$) [for characteristic density of wood $\rho_k = 450 \text{ kg/m}^3$]	WT, WTB	3.0/xx	3.11	PN-EN 14592+A1:2012
		3.5/xx	3.38	
		4.0/xx	2.25	
		4.5/xx	2.45	
		5.0/xx	2.89	
	WT, WTB, WTZ, WTZB	6.0/xx	2.18	
		8.0/xx	2.88	
		10.0/xx	2.34	
Durability	WT, WTB, WTZ, WTZB	x/xx	NPD	PN-EN 14592+A1:2012

*xx – applies to any length of the specified diameter of the screw; x/xx – applies to any length and any diameter of the screw.

8. Appropriate Technical Documentation and/or Specific Technical Documentation: *Test report No. LOK00-01605/14/Z000SK issued on 2nd December 2014 by Zakład Elementów Konstrukcji Budowlanych i Budownictwa na Terenach Górniczych, Laboratorium Łączników i Wyrobów Budowlanych (LOK) Instytutu Techniki Budowlanej and certificates to the reports on assessment of the performance of construction products No.: E-30-20260-16, E-30-20263-16, E-30-20265-16, E-30-20269-16 issued on 31st May 2016 and E-30-20413-16 issued on 10th August 2016 by Strojirenský Zkušební Ústav, s.p., Czech Republic.*

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:

Jerzy Grobelny..... [name]

in Krakow..... on 3rd April 2018..... [date of issue]

[place]
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 [signature]
 Jerzy Grobelny