



DECLARATION OF PERFORMANCES



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PFW-SS (EN)

1. Unique identification code of the product-type:

Stainless steel professional screws type PFS :

- PFWVTVA : A2 chipboard screws, countersunk head, T-drive recess, full thread
- PFWVTGA : A2 chipboard screws, countersunk head, T-drive recess, partial thread
- PFETTGA : A2 construction screws, flange head, T-drive recess, partial thread
- PFWHTGA : A2 decking screws, reduced countersunk head, T-drive recess, partial thread
- PFWHTGC : C2 decking screws, reduced countersunk head, T-drive recess, partial thread
- PFWDTGA : A2 decking screws, reduced countersunk head, T-drive recess, double thread
- PFWDTGB : A4 decking screws, reduced countersunk head, T-drive recess, double thread

2. Intended use(s) :

Product	Intended use
Stainless steel screws	Structural connections in timber constructions

3. Manufacturer:

pgb-Europe nv – Gontrode Heirweg 170 – 9090 Melle – Belgium

4. AVCP system:

System 3

5. Harmonized norm and notified body:

Norm: EN 14592:2008+A1:2012
Report: Initial Type Test report n° 311002227/1/2014 + 311002167/1/2013 + 311002542/1/2017 + 311002358/1A/2015
Performed by: HFB Engineering GMBH - Zschortauer Straße 42 - 04129 Leipzig
Notified body : CE 1034

6. Declared performances :

See next pages

The performances of the product identified above are in conformity with the declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified above in accordance with the EU Construction Product Regulation N° 305/2011.



Place and date of issue	Signed for and on behalf of the manufacturer by	
Melle, 03/01/2024	nv pgb-Europe sa Gontrode Heirweg 170 9090 MELLE BE 0425 888 396	Johannes Heye, product manager 



Declared performances for PFWVTVA - PFWVTGA:

Generic type:	PFS+ chipboard screws PFWVTVA - PFWVTGA
Material:	Stainless steel A2 grade 60 according to EN ISO 3506-1
Service class:	Service class 1, 2 and 3 according to EN 1995-1-1
Fire resistance:	NPD
Reaction to fire:	Classification A1 according to EN13501-1
Application:	Screws for the fastening of constructions and substructures in wood

Essential characteristics		Performances					
		PFWVTVA A2		PFWVTGA A2			
		Ø 4	Ø 4,5	Ø 4	Ø 4,5	Ø 5	Ø 6
Characteristic yield moment $M_{y,k}$	[Nmm]	1840	3870	-	3980	6180	-
Characteristic withdrawal parameter $f_{ax,k}$	[N/mm ²]	18.9	20.1	18.1	18.7	15.4	-
Wood density	ρ_k [kg/m ³]	450					
Characteristic head pull-through parameter $f_{head,k}$	[N/mm ²]	34.2	29.7	18.9	25.9	21.2	-
Wood density	ρ_k [kg/m ³]	450					
Characteristic tensile strength $f_{tens,k}$	[kN]	4.14	5.49	4.09	5.77	7.74	-
Characteristic torsional strength $f_{tor,k}$	[Nm]	2.32	3.85	2.29	3.96	6.03	-
Insertion moment $R_{tor,k}$	[Nm]	1.04	1.42	0.49	1.36	2.41	-
Characteristic torsional ratio (ρ_k 450 kg/m ³)	[-]	2.23	2.71	4.67	2.91	2.50	-

Tested according to Harmonized Technical Specification EN 14592:2008+A1:2012. Timber for testing was conditioned at the temperature of 20°C and humidity of 65%.

Declared performances for PFETTGA:

Generic type:	PFS+ construction screws PFETTGA
Material:	Stainless steel A2 grade 50 according to EN ISO 3506-1
Service class:	Service class 1, 2 and 3 according to EN 1995-1-1
Fire resistance:	NPD
Reaction to fire:	Classification A1 according to EN13501-1
Application:	Screws for load-bearing timber structures

Essential characteristics		Performances	
		PFETTGA A2	
		Ø 6	Ø 8
Characteristic yield moment $M_{y,k}$	[Nmm]	-	20400
Characteristic withdrawal parameter $f_{ax,k}$	[N/mm ²]	-	22.3 ¹ / 17.8 ²
Wood density	ρ_k [kg/m ³]	450	
Characteristic head pull-through parameter $f_{head,k}$	[N/mm ²]	-	14.3
Wood density	ρ_k [kg/m ³]	450	
Characteristic tensile strength $f_{tens,k}$	[kN]	-	13.8
Characteristic torsional strength $f_{tor,k}$	[Nm]	-	19.64
Insertion moment $R_{tor,k}$	[Nm]	-	4.22 ³ / 7.39 ⁴
Characteristic torsional ratio (ρ_k 450 kg/m ³)	[-]	-	4.6 ³ / 2.7 ⁴

Tested according to Harmonized Technical Specification EN 14592:2008+A1:2012. Timber for testing was conditioned at the temperature of 20°C and humidity of 65%

¹Loading across the fiber

²Loading along the fiber

³Threaded part

⁴Shaft



Declared performances for PFWHTGC - PFWHTGA:

Generic type:	PFS+ Tropic wood screws with reduced head and milling ribs PFWHTGC - PFWHTGA
Material:	Stainless steel C2 according to AISI 410 or A2 grade 50 according to EN ISO 3506-1
Service class:	Service class 1, 2 and 3 according to EN 1995-1-1
Fire resistance:	NPD
Reaction to fire:	Classification A1 according to EN13501-1
Application:	Screws for hardwood structures such as terraces

Essential characteristics		Performances					
		PFWHTGC C2			PFWHTGA A2		
		Ø 4	Ø 4,5	Ø 5	Ø 4,0	Ø 4.5	Ø 5
Characteristic yield moment $M_{y,k}$	[Nmm]	3580	5320	7070	3560	3950	5940
Characteristic withdrawal parameter $f_{ax,k}$	[N/mm ²]	15.2 ¹	33.6 ¹	23.4 ¹	15.5 ¹	21.4 ¹	17.6 ¹
	Wood density	ρ_k [kg/m ³]	12.0 ²	24.3 ²	23.7 ²	10.2 ²	16.7 ²
Characteristic head pull-through parameter $f_{head,k}$	[N/mm ²]	450					
	Wood density	ρ_k [kg/m ³]	15.1	16.8	14.8	16.6	21.2
Characteristic tensile strength $f_{tens,k}$	[kN]	450					
	[Nm]	5.82	7.64	9.65	5.06	5.59	6.83
Characteristic torsional strength $f_{tor,k}$	[Nm]	3.11	4.63	6.15	3.34	3.57	5.61
	[Nm]	0.65 ³	1.01 ³	1.32 ³	0.63 ³	0.71 ³	0.98 ³
Insertion moment $R_{tor,k}$	[Nm]	0.96 ⁴	1.47 ⁴	1.69 ⁴	0.69 ⁴	0.78 ⁴	1.07 ⁴
	[Nm]	4.8 ³	4.6 ³	4.7 ³	5.3 ³	5.0 ³	5.7 ³
Characteristic torsional ratio (ρ_k 450 kg/m ³)	[-]	3.2 ⁴	3.1 ⁴	3.6 ⁴	4.8 ⁴	4.6 ⁴	5.2 ⁴
	[-]						

Tested according to Harmonized Technical Specification EN 14592:2008+A1:2012. Timber for testing was conditioned at the temperature of 20°C and humidity of 65%

¹Loading across the fiber

²Loading along the fiber

³Threaded part

⁴Shaft

Declared performances for PFWDTGA - PFWDTGB:

Generic type:	PFS+ Tropic wood screws with double thread, reduced head and milling ribs PFWDTGA - PFWDTGB
Material:	Stainless steel A2 and A4 grade 70 according to EN ISO 3506-1
Service class:	Service class 1, 2 and 3 according to EN 1995-1-1
Fire resistance:	NPD
Reaction to fire:	Classification A1 according to EN13501-1
Application:	Screws for hardwood structures such as terraces

Essential characteristics		Performances			
		PFWDTGA A2			PFWDTGB A4
		Ø 4	Ø 4,5	Ø 5	Ø 5
Characteristic yield moment $M_{y,k}$	[Nmm]	2500	4320	7100	7150
Characteristic withdrawal parameter $f_{ax,k}$	[N/mm ²]	36.5 ¹	40.5 ²	41.1 ³	41.2 ⁴
	Wood density	ρ_k [kg/m ³]	660	786	790
Characteristic head pull-through parameter $f_{head,k}$	[N/mm ²]	53	65	76.9	57.8
	Wood density	ρ_k [kg/m ³]	724	779	790
Characteristic tensile strength $f_{tens,k}$	[kN]	4.92	6.07	7.7	8.17
Characteristic torsional strength $f_{tor,k}$	[Nm]	2.85	4.25	6.3	6.47
	[Nm]	2.45 ⁵	4.32 ⁵	7.36	4.85 ⁵
Insertion moment $R_{tor,k}$	[Nm]	3.12 ⁶	4.97 ⁶		5.54 ⁶
	[Nm]	1.16 ⁵	0.98 ⁵	0.86	1.33 ⁵
Characteristic torsional ratio	[-]	0.91 ⁶	0.86 ⁶		1.17 ⁶
	[-]				

Tested according to Harmonized Technical Specification EN 14592:2008+A1:2012. Timber for testing was conditioned at the temperature of 20°C and humidity of 65%

¹Screwed in at 25 mm

²Screwed in at 35 mm

³Screwed in at 30 mm in Bangkirai, pre-drilled 3.8 mm

⁴Screwed in at 35 mm

⁵Threaded part

⁶Shaft

