

## DOP 20-0787-01 (EN)



1. *Unique identification code of the product-type:*  
**PFWVTV – PFWVTG - PFWCTV – PFWCTG - PFEVTV - PFETTV – PFDCTG  
HAWVTV – HAWVTG – HAEVTV – HAETTV**
2. *Type or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):*  
**Identification according to ETA 20/0787, Annex A**
3. *Intended uses of the construction product, in accordance with the applicable harmonized technical specification as foreseen by the manufacturer:*

<b>Generic type:</b>	Wood screw "HAPAX and PFS+"
<b>Material:</b>	Carbon steel
<b>Corrosion protection:</b>	Zinc plating : service class 1 according to Eurocode 5 Bluetop : service class 1 and 2 according to Eurocode 5 Blacktop : service class 1 and 2 according to Eurocode 5 4Top : C4 class according to EN 12944-2
<b>Fire resistance:</b>	NPD
<b>Reaction to fire:</b>	Classification A1 according to EN13501-1
<b>Intended use:</b>	Self-tapping screws for use in timber construction

4. *Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11 (5):*  
**pgb-Europe nv – Gontrode Heirweg 170 – 9090 Melle – Belgium**
5. *Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12 (2):*  
**NOT RELEVANT**
6. *System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:*  
**System 3**
7. *In case of the declaration of performance concerning a construction product covered by a harmonized*  
**NOT RELEVANT**
8. *In case of the declaration of performance concerning a construction product for which European Technical Assessment has been issued:*  
**ETA 20/0787 has been issued by ETA-DANMARK A/S based on EAD 130118-01-0603**

## 9. Declared performance:

Essential characteristics			Performance						
			PFWVTV - PFWVTG - PFWCTV - PFWCTG						
			Ø 3	Ø 3,5	Ø 4	Ø 4,5	Ø 5	Ø 6	
<b>Mechanical resistance and stability (BWR 1)</b>									
Dimensions (l, l <sub>g</sub> , d <sub>1</sub> , d, d <sub>s</sub> , d <sub>head</sub> , p)			[mm]	According to ETA 20/0787 Annex A pages 16 to 19					
Characteristic yield moment (M <sub>y,k</sub> )	ETA 20/0787 §3.9	[Nm]	1,0	1,6	2,8	3,7	4,9	8,7	
Bending angle (α <sub>bend</sub> )	ETA 20/0787 §1	[°]	41	39	37	36	35	33	
Characteristic withdrawal parameter (f <sub>ax,k</sub> )	ETA 20/0787 §3.9	[N/mm <sup>2</sup> ]	15	15	15	14	13	12	
Characteristic head pull-through parameter (f <sub>head,v</sub> )									
wood-based panels with thickness > 20 mm	ETA 20/0787 §3.9	[N/mm <sup>2</sup> ]	16,6	14,3	12,5	10,0	10,0	10,0	
wood-based panels with thickness ≤ 20 mm	ETA 20/0787 §3.9	[N/mm <sup>2</sup> ]	8,0	8,0	8,0	8,0	8,0	8,0	
Tensile strength (f <sub>tens,k</sub> )	ETA 20/0787 §3.1	[kN]	3,0	4,0	5,0	7,0	8,0	11,0	
Torsional strength (f <sub>tor,k</sub> )	ETA 20/0787 §3.1	[Nm]	1,3	1,8	3,3	4,5	5,0	10,0	
Insertion moment (R <sub>tor,mean</sub> )	ETA 20/0787 §3.1	[Nm]	0,9	1,2	2,2	3,0	3,3	6,7	
Minimum distances and spacings		[mm]	According to ETA 20/0787 Annex B						
Axial slip modulus (K <sub>ser</sub> )	ETA 20/0787 §3.9	[N/mm <sup>2</sup> ]	25 x d x l <sub>ef</sub> (d=outer thread diameter - l <sub>ef</sub> =thread penetration length in structural member)						
Corrosion protection	ETA 20/0787 §3.10		Service class 1						
<b>Safety in case of fire (BWR 2)</b>									
	ETA 20/0787 §3.1		Class A1						

Essential characteristics			Performance						
			HAWVTV - HAWVTG						
			Ø 3	Ø 3,5	Ø 4	Ø 4,5	Ø 5	Ø 6	
<b>Mechanical resistance and stability (BWR 1)</b>									
Dimensions (l, l <sub>g</sub> , d <sub>1</sub> , d, d <sub>s</sub> , d <sub>head</sub> , p)			[mm]	According to ETA 20/0787 Annex A pages 10 to 11					
Characteristic yield moment (M <sub>y,k</sub> )	ETA 20/0787 §3.9	[Nm]	1,3	2,3	3,3	4,5	5,5	10,0	
Bending angle (α <sub>bend</sub> )	ETA 20/0787 §1	[°]	41	39	37	36	35	33	
Characteristic withdrawal parameter (f <sub>ax,k</sub> )	ETA 20/0787 §3.9	[N/mm <sup>2</sup> ]	15	15	15	14	13	12	
Characteristic head pull-through parameter (f <sub>head,v</sub> )									
wood-based panels with thickness > 20 mm	ETA 20/0787 §3.9	[N/mm <sup>2</sup> ]	16,6	14,3	12,5	10,0	10,0	10,0	
wood-based panels with thickness ≤ 20 mm	ETA 20/0787 §3.9	[N/mm <sup>2</sup> ]	8,0	8,0	8,0	8,0	8,0	8,0	
Tensile strength (f <sub>tens,k</sub> )	ETA 20/0787 §3.1	[kN]	3,0	4,0	5,0	7,0	8,0	11,0	
Torsional strength (f <sub>tor,k</sub> )	ETA 20/0787 §3.1	[Nm]	1,3	1,8	3,3	4,5	5,0	10,0	
Insertion moment (R <sub>tor,mean</sub> )	ETA 20/0787 §3.1	[Nm]	0,9	1,2	2,2	3,0	3,3	6,7	
Minimum distances and spacings		[mm]	According to ETA 20/0787 Annex B						
Axial slip modulus (K <sub>ser</sub> )	ETA 20/0787 §3.9	[N/mm <sup>2</sup> ]	25 x d x l <sub>ef</sub> (d=outer thread diameter - l <sub>ef</sub> =thread penetration length in structural member)						
Corrosion protection	ETA 20/0787 §3.10		Service class 2						
<b>Safety in case of fire (BWR 2)</b>									
	ETA 20/0787 §3.1		Class A1						

# DECLARATION OF PERFORMANCE

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Essential characteristics			Performance			
			PFEVTG - PFETTG - PFDCTG			
			Ø 5	Ø 6	Ø 8	Ø 10
<b>Mechanical resistance and stability (BWR 1)</b>						
Dimensions (l, l <sub>g</sub> , d <sub>1</sub> , d, d <sub>2</sub> , d <sub>head</sub> , p)		[mm]	According to ETA 20/0787 Annex A pages 20 to 24			
Characteristic yield moment (M <sub>y,k</sub> )	ETA 20/0787 §3.9	[Nm]	5,9	7,9	20,0	26,0
Bending angle (α <sub>bend</sub> )	ETA 20/0787 §1	[°]	35	33	30	29
Characteristic withdrawal parameter (f <sub>ax,k</sub> )	ETA 20/0787 §3.9	[N/mm²]	13	12	11	11
Characteristic head pull-through parameter (f <sub>head,k</sub> )						
wood-based panels with thickness > 20 mm	ETA 20/0787 §3.9	[N/mm²]	10,0	10,0	10,0	10,0
wood-based panels with thickness ≤ 20 mm	ETA 20/0787 §3.9	[N/mm²]	8,0	8,0	8,0	8,0
Tensile strength (f <sub>tens,k</sub> )	ETA 20/0787 §3.1	[kN]	8,0	11,0	22,0	35,0
Torsional strength (f <sub>tor,k</sub> )	ETA 20/0787 §3.1	[Nm]	5,0	10,0	24,0	45,0
Insertion moment (R <sub>tor,mean</sub> )	ETA 20/0787 §3.1	[Nm]	3,3	6,7	16,0	30,0
Minimum distances and spacings		[mm]	According to ETA 20/0787 Annex B			
Axial slip modulus (K <sub>ser</sub> )	ETA 20/0787 §3.9	[N/mm²]	25 x d x l <sub>eff</sub> (d=outer thread diameter - l <sub>eff</sub> =thread penetration length in structural member)			
Corrosion protection	ETA 20/0787 §3.10		Service class 2			
<b>Safety in case of fire (BWR 2)</b>						
	ETA 20/0787 §3.1		Class A1			

Essential characteristics			Performance		
			HAEVTG - HAETTG		
			Ø 5	Ø 6	Ø 8
<b>Mechanical resistance and stability (BWR 1)</b>					
Dimensions (l, l <sub>g</sub> , d <sub>1</sub> , d, d <sub>2</sub> , d <sub>head</sub> , p)		[mm]	According to ETA 20/0787 Annex A pages 12 to 15		
Characteristic yield moment (M <sub>y,k</sub> )	ETA 20/0787 §3.9	[Nm]	7,0	10,0	20,0
Bending angle (α <sub>bend</sub> )	ETA 20/0787 §1	[°]	35	33	30
Characteristic withdrawal parameter (f <sub>ax,k</sub> )	ETA 20/0787 §3.9	[N/mm²]	13	12	11
Characteristic head pull-through parameter (f <sub>head,k</sub> )					
wood-based panels with thickness > 20 mm	ETA 20/0787 §3.9	[N/mm²]	10,0	10,0	10,0
wood-based panels with thickness ≤ 20 mm	ETA 20/0787 §3.9	[N/mm²]	8,0	8,0	8,0
Tensile strength (f <sub>tens,k</sub> )	ETA 20/0787 §3.1	[kN]	8,0	11,0	22,0
Torsional strength (f <sub>tor,k</sub> )	ETA 20/0787 §3.1	[Nm]	5,0	10,0	24,0
Insertion moment (R <sub>tor,mean</sub> )	ETA 20/0787 §3.1	[Nm]	3,3	6,7	16,0
Minimum distances and spacings		[mm]	According to ETA 20/0787 Annex B		
Axial slip modulus (K <sub>ser</sub> )	ETA 20/0787 §3.9	[N/mm²]	25 x d x l <sub>eff</sub> (d=outer thread diameter - l <sub>eff</sub> =thread penetration length in structural member)		
Corrosion protection	ETA 20/0787 §3.10		Service class 2		
<b>Safety in case of fire (BWR 2)</b>					
	ETA 20/0787 §3.1		Class A1		

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Place and date of issue	Signature
Melle, 4/11/2020	nv pgb-Europe sa Gontrode Heirweg 170 9090 MELLE BE 0425 888 396  Johannes Heye, product manager

