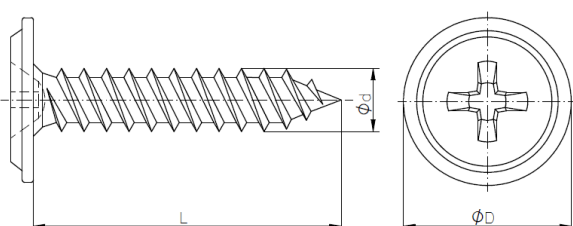


DECLARATION of PERFORMANCE**No 01/BPMNT/0371/2021**

1. *Unique identification code of the product-type:* **BPMNT**
2. *Intended use:* **BMNT self-drilling screws are intended to be used for connections of thin steel sheets with overlap or for fastening sheets for wooden elements**
3. *Name, registered trade name or registered trade mark and contact address of the manufacturer:* **Marcopol Sp. z o.o. Producer of Bolts str. Oliwska 100, 80-209 Chwaszczyno Poland**
4. *System or systems of assessment and verification of constancy of performance of the construction product:* **System "2+" of assessment**
5. *European Technical Assessment:* **ETA 18/0371 issued 11.04.2021**
Technical Assessment Body: **Technický a zkušební ústav stavební Praha, s.p.**
Notified Body: **Number: 1020 - Technický a zkušební ústav stavební Praha, s.p.**
6. *Declared performance:*

	Essential characteristics	Performance	Technical specification
3.1 BWR 1: Mechanical resistance and stability			
3.1.1	Characteristic Shear Resistance of the Connection	See Table 1 below	ETA 18/0371
3.1.2	Characteristic Tension Resistance of the Connection	See Table 1 below	ETA 18/0371
3.1.3	Design Resistance in case of combined Tension and Shear Forces (interaction)	No performance assessed	ETA 18/0371
3.1.4	Check of Deformation Capacity in case of constraining forces due to temperature	No performance assessed	ETA 18/0371
3.1.5	Durability		
	Zinc coating min. 5 mikron	Category C1	ETA 18/0371
3.2 BWR 2: Safety in case of fire			
3.2.1	Reaction to fire	The performance of the product is class A1	EN 13501-1

Table 1: Characteristic Tension Resistance $N_{R,k}$ and Shear Resistance $V_{R,k}$ [kN]



Materials
 Fastener: carbon steel – SAE1022
 quenched, tempered and galvanized ($\geq 5\mu\text{m}$) Washer:
 -
 Component I: S280GD, S320GD or S350GD – EN 10346
 Component II: structural timber – EN 14081

Drilling capacity: -

Timber substructures
 For timber substructures performance determined with
 $M_{y,Rk} = 3,10 \text{ Nm}$
 $f_{ax,k} = 8,43 \text{ N/mm}^2$ for $l_{ef} \geq 16,8 \text{ mm}$

$t_{N,II}$ [mm]	0,50	0,55	0,63	0,75	0,88	1,00	1,13	1,25	Wood class \geq C24		
$M_{t,nom}$	2 Nm								16,80 mm	—	
$V_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,50	0,55	0,63	0,75	0,88	1,00	1,13	1,25	0,68	—	*bearing resistance of component I **bearing resistance of component II
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	—	—	
$N_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,40	—	—	—	—	—	—	—	0,68	—	*bearing resistance of component II **bearing resistance of component I
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	0,68	—	
	—	—	—	—	—	—	—	—	—	—	

BPMNT fastening screws for metal members and sheeting

BPMNT 4,2 × L
with washer head

Table 1



marka która łączy

7. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 6

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Chwaszczyno, 8.11.2021

Signed by:

R&D Director

Janusz Kabała

Dyrektor Działu Rozwoju
Produktów

Janusz Kabała
Janusz Kabała