

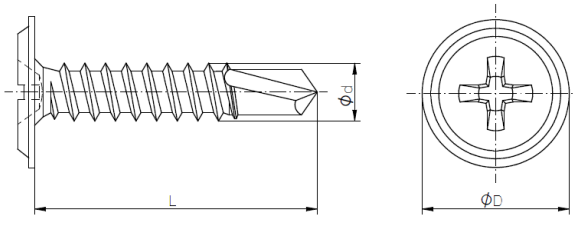
DECLARATION of PERFORMANCE

No 01/BPSMNT/0371/2021



1. *Unique identification code of the product-type:* **BPSMNT**
2. *Intended use:* **BPSMNT self-drilling screws are intended to be used for fastening steel sheeting to steel supporting structures.**
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: S280GD, S320GD or S350GD – EN 10346 S235 – EN 10025-1 Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 4,00$ mm Timber substructures no performance determined																																																																																						
	<table border="1"> <thead> <tr> <th>$t_{N,II}$ [mm]</th> <th>2,00</th> <th colspan="2">Wood class \geq C24</th> <th></th> </tr> </thead> <tbody> <tr> <td>$M_{t,nom}$</td> <td>2 Nm</td> <td>—</td> <td>—</td> <td></td> </tr> <tr> <td rowspan="10">$V_{R,k}$ [kN] for t_{N1} [mm]</td> <td>0,50</td> <td>—</td> <td>—</td> <td rowspan="10">*bearing resistance of component I **bearing resistance of component II</td> </tr> <tr><td>0,55</td><td>—</td><td>—</td></tr> <tr><td>0,63</td><td>—</td><td>—</td></tr> <tr><td>0,75</td><td>—</td><td>—</td></tr> <tr><td>0,88</td><td>—</td><td>—</td></tr> <tr><td>1,00</td><td>0,68</td><td>—</td></tr> <tr><td>1,13</td><td>0,68</td><td>—</td></tr> <tr><td>1,25</td><td>0,68</td><td>—</td></tr> <tr><td>1,50</td><td>0,68</td><td>—</td></tr> <tr><td>1,75</td><td>0,68</td><td>—</td></tr> <tr><td>2,00</td><td>0,68</td><td>—</td></tr> <tr> <td rowspan="10">$N_{R,k}$ [kN] for t_{N1} [mm]</td> <td>0,40</td> <td>—</td> <td>—</td> <td rowspan="10">*bearing resistance of component II **bearing resistance of component I</td> </tr> <tr><td>0,50</td><td>—</td><td>—</td></tr> <tr><td>0,55</td><td>—</td><td>—</td></tr> <tr><td>0,63</td><td>—</td><td>—</td></tr> <tr><td>0,75</td><td>—</td><td>—</td></tr> <tr><td>0,88</td><td>2,07</td><td>—</td></tr> <tr><td>1,00</td><td>2,07</td><td>—</td></tr> <tr><td>1,13</td><td>2,07</td><td>—</td></tr> <tr><td>1,25</td><td>2,07</td><td>—</td></tr> <tr><td>1,50</td><td>2,07</td><td>—</td></tr> <tr><td>1,75</td><td>2,07</td><td>—</td></tr> <tr><td>2,00</td><td>2,07</td><td>—</td></tr> </tbody> </table>	$t_{N,II}$ [mm]	2,00	Wood class \geq C24			$M_{t,nom}$	2 Nm	—	—		$V_{R,k}$ [kN] for t_{N1} [mm]	0,50	—	—	*bearing resistance of component I **bearing resistance of component II	0,55	—	—	0,63	—	—	0,75	—	—	0,88	—	—	1,00	0,68	—	1,13	0,68	—	1,25	0,68	—	1,50	0,68	—	1,75	0,68	—	2,00	0,68	—	$N_{R,k}$ [kN] for t_{N1} [mm]	0,40	—	—	*bearing resistance of component II **bearing resistance of component I	0,50	—	—	0,55	—	—	0,63	—	—	0,75	—	—	0,88	2,07	—	1,00	2,07	—	1,13	2,07	—	1,25	2,07	—	1,50	2,07	—	1,75	2,07	—	2,00	2,07	—			
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BPSMNT 4,2 × L with countersunk head																																																																																							

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, 08.11.2021

Signed by:

R&D Director

Janusz Kabała

Dyrektor Działu Rozwoju
Produktów



Janusz Kabała