

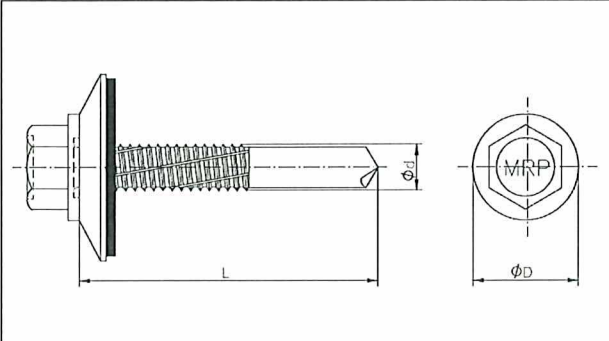
DECLARATION of PERFORMANCE

No 01/WSPC/0371/2025



1. *Unique identification code of the product-type:* **WSPC (marked MRP)**
2. *Intended use:* **WSPC self-drilling screws are intended to be used for fastening steel sheeting to metal and timber 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 05.10.2023**
Technical Assessment Body: **Technický a zkušební ústav stavební Praha, s.p.**
Notified Body: **Number: 1020 - Technický a zkušební ústav stavební Praha, s.p.**
Certificate FPC: **1022-CPR-070060127**
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)	NPD	ETA 18/0371
3.1.4	Check of Deformation Capacity in case of constraining forces due to temperature	NPD	ETA 18/0371
3.1.5	Durability		
	Zinc coating	min. 8 microns	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

	Materials Fastener: carbon steel – SAE1022 quenched, tempered and galvanized ($\geq 8\mu\text{m}$) Washer: EPDM sealing ring with metal top made of coated carbon steel Component I: S280GD, S320GD or S350GD – EN 10346 Component II: S235 – EN 10025-1 Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 13,00 \text{ mm}$ Timber substructures no performance determined
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$t_{N,II} [\text{mm}]$	4,00	5,00	6,00	7,00	8,00	10,0	11,00	12,00	Wood class $\geq \text{C24}$		
$M_{t, \text{nom}}$	5 Nm								—		
$V_{R,k} [\text{kN}]$ for $t_{N1} [\text{mm}]$	0,50	—	—	—	—	—	—	—	—	—	*bearing resistance of component I **bearing resistance of component II
0,55	—	—	—	—	—	—	—	—	—	—	
0,63	—	—	—	—	—	—	—	—	—	—	
0,75	1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21	—	—	
0,88	1,66	1,66	1,66	1,66	1,66	1,66	1,66	1,66	—	—	
1,00	2,38	2,38	2,38	2,38	2,38	2,38	2,38	2,38	—	—	
1,13	2,38	2,38	2,38	2,38	2,38	2,38	2,38	—	—	—	
1,25	2,38	2,38	2,38	2,38	2,38	2,38	2,38	—	—	—	
1,50	2,38	2,38	2,38	2,38	2,38	2,38	2,38	—	—	—	
1,75	2,38	2,38	2,38	2,38	2,38	2,38	2,38	—	—	—	
2,00	2,38	2,38	2,38	2,38	2,38	2,38	2,38	—	—	—	
2,50	2,38	2,38	2,38	2,38	2,38	2,38	—	—	—	—	
3,00	2,38	2,38	2,38	2,38	2,38	2,38	—	—	—	—	
$N_{R,k} [\text{kN}]$ for $t_{N1} [\text{mm}]$	0,50	—	—	—	—	—	—	—	—	—	*bearing resistance of component II **bearing resistance of component I
0,55	—	—	—	—	—	—	—	—	—	—	
0,63	—	—	—	—	—	—	—	—	—	—	
0,75	4,23	4,23	4,23	4,23	4,23	4,23	4,23	4,23	—	—	
0,88	4,65	4,65	4,65	4,65	4,65	4,65	4,65	4,65	—	—	
1,00	5,24	5,24	5,24	5,24	5,24	5,24	5,24	5,24	—	—	
1,13	5,24	5,24	5,24	5,24	5,24	5,24	5,24	—	—	—	
1,25	5,24	5,24	5,24	5,24	5,24	5,24	5,24	—	—	—	
1,50	5,24	5,24	5,24	5,24	5,24	5,24	5,24	—	—	—	
1,75	5,24	5,24	5,24	5,24	5,24	5,24	5,24	—	—	—	
2,00	5,24	5,24	5,24	5,24	5,24	5,24	5,24	—	—	—	
2,50	5,24	5,24	5,24	5,24	5,24	5,24	—	—	—	—	
3,00	5,24	5,24	5,24	5,24	5,24	5,24	—	—	—	—	

If both components I and II are made of S320GD the values $V_{R,k}$ may be increased by 8,3%

If both components I and II are made of S350GD the values $V_{R,k}$ may be increased by 16,6%

WSPC fastening screws for metal members and sheeting

WSPC 5,5 × L

with hexagon head and sealing washer $\phi 16$
with metal top made of coated carbon steel

Table 1

7. 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.

Chwaszczyno, 20.05.2025

Signed by:


Koordynator ds. Aprobat Technicznych

Piotr Kozinski