

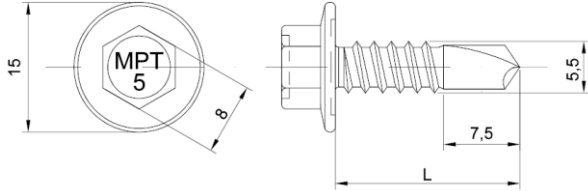
## DECLARATION of PERFORMANCE

No 02/MPT5-IW/0371/2022



1. *Unique identification code of the product-type:* **MPT 5 IW**
2. *Intended use:* **MPT 5 IW 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
<b>3.1 BWR 1: Mechanical resistance and stability</b>			
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.12 mikron	Category C1	ETA 18/0371
	Ceramic coating Ruspert Silver	according to individual Producer documentation	ETA 18/0371
<b>3.2 BWR 2: Safety in case of fire</b>			
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 (Ruspert Silver)

Washer: -

Component I: S280GD, S320GD or S350GD – EN 10346

Component II: S235 – EN 10025-1

 Drilling capacity:  $\Sigma(t_{N2} + t_{II}) \leq 6,50$  mm

**Timber substructures**

no performance determined

$t_{N,II}$ [mm]	3,00	4,00	5,00	6,00	7,00	8,00	9,00	10,00	Wood class $\geq$ C24				
$M_{t,nom}$	5 Nm									—	—		
$V_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,75 0,88 1,00 1,13 1,25 1,50 1,75 2,00	1,23 1,31 1,64 1,64 1,72 1,72 — —	1,23 1,31 1,64 1,64 1,72 1,72 — —	1,23 1,31 1,64 1,64 1,72 1,72 — —	— — — — — — — —	— — — — — — — —	— — — — — — — —	— — — — — — — —	— — — — — — — —	— — — — — — — —	— — — — — — — —	— — — — — — — —	*bearing resistance of component I **bearing resistance of component II
$N_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,75 0,88 1,00 1,13 1,25 1,50 1,75 2,00	2,56 3,28 3,43 3,43 3,45 3,45 — —	2,56 3,28 3,43 3,43 3,45 3,45 — —	2,56 3,28 3,43 3,43 3,45 3,45 — —	— — — — — — — —	— — — — — — — —	— — — — — — — —	— — — — — — — —	— — — — — — — —	— — — — — — — —	— — — — — — — —	— — — — — — — —	*bearing resistance of component II **bearing resistance of component I

 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%

**MPT 5 IW fastening screws for metal members and sheeting**

 MPT 5 IW 5,5 × L  
 with hexagon washer head

Table 1

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.

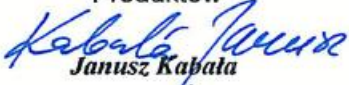
Chwaszczyno, 14.01.2022

Signed by:

R&D Director

Janusz Kabała

Dyrektor Działu Rozwoju  
Produktów



*Janusz Kabała*  
Janusz Kabała