

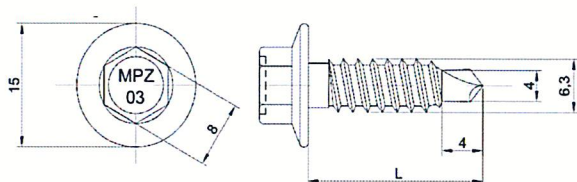
DECLARATION of PERFORMANCE

No 01/MPZ03-IW/0371/2019



1. *Unique identification code of the product-type:* **MPZ 03 IW**
2. *Intended use:* **MPZ 03 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 15.02.2019**
Technical Assessment Body: **Technický a zkušební ústav stavební Praha, s.p.**
Notified Body: **Number: 1488 - Instytut Techniki Budowlanej**
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.	Durability		
	Zinc coating min.12 mikron	Category C1	EN 1993-1-3; EN 1993-1-4; EN 1999-1-4
	Ceramic coating Ruspert Silver	according to individual Producer documentation	EN ISO 12944-2
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
3.3 BWR 3: Hygiene, health and the environment			
3.3.1.	Content, emission and/or release of dangerous substances	Content of dangerous substances less than 0,1%	EU Regulation REACH 1907/2006

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

Materials

 Fastener: carbon steel – SAE1022
 quenched, tempered and galvanized ($\geq 12 \mu\text{m}$)

Washer:

Component I: S280GD, S320GD or S350GD – EN 10346

Component II: S280GD, S320GD or S350GD – EN 10346

 Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 3,00 \text{ mm}$
Timber substructures

no performance determined

$t_{N,II}$ [mm]	0,75	0,88	1,00	1,13	1,25	1,50	2,00	3,00	Wood class $\geq$ C24		
$M_{t, \text{nom}}$	7 Nm								—	—	
$V_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,75	1,39	1,39	1,39	1,39	1,39	1,39	—	—	—	*bearing resistance of component I **bearing resistance of component II
	0,88	2,30	2,30	2,30	2,30	2,30	2,30	—	—	—	
	1,00	2,56	2,56	2,56	2,56	2,56	2,56	—	—	—	
	1,13	2,56	2,56	2,56	2,56	2,56	2,56	—	—	—	
	1,25	2,70	2,70	2,70	2,70	2,70	2,70	—	—	—	
	1,50	2,77	2,77	2,77	2,77	2,77	2,77	—	—	—	
	1,75	—	—	—	—	—	—	—	—	—	
	2,00	—	—	—	—	—	—	—	—	—	
$N_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,75	0,47	0,47	0,47	0,47	0,47	0,47	—	—	—	*bearing resistance of component II **bearing resistance of component I
	0,88	0,63	0,63	0,63	0,63	0,63	0,63	—	—	—	
	1,00	0,90	0,90	0,90	0,90	0,90	0,90	—	—	—	
	1,13	0,90	0,90	0,90	0,90	0,90	0,90	—	—	—	
	1,25	1,20	1,20	1,20	1,20	1,20	1,20	—	—	—	
	1,50	1,36	1,36	1,36	1,36	1,36	1,36	—	—	—	
	1,75	—	—	—	—	—	—	—	—	—	
	2,00	—	—	—	—	—	—	—	—	—	

 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%

MPZ 03 IW fastening screws for metal members and sheeting

 MPZ 03 IW 6,3 × 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, 01.04.2019

Signed by:

R&D Director

Janusz Kabała

Dyrektor Działu Rozwoju
Produktów



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