

## DECLARATION of PERFORMANCE

NR 02/GW4.6/E-30-20369-17/2017



1. *Unique identification code of the product-type:*

**Construction nails type GW**

**Steel SAE1008 according to ASTM A510M – minimum tensile strength  $R_m \geq 450 \text{ N/mm}^2$**

- nominal diameter  $d = 4,6 \text{ mm}$

- length  $l = (90 \div 125) \text{ mm}$

- head area  $A_h = 66,44 (+/- 5,65) \text{ mm}^2$

2. *Intended use:*

**GW Ø4,6 construction nails are intended for structural connections of load-bearing wooden elements.**

3. *Name, registered trade name or registered trade mark and contact address of the manufacturer:*

**Marcopol Sp. z o.o. Producent Śrub, street Oliwska 100, 80-209 Chwaszczyno**

4. *System or systems of assessment and verification of constancy of performance of the construction product:*

**System “3” of assessment**

5. *Declaration of performance concerning by a harmonized standard:*

**EN 14592:2008 + A1:2012 Tab. ZA.1,**

*Name and identification number of the notified body:*

**Strojirenský zkušební ústav, s.p. Brno, Czech Republic, No. 1015**

6. *Declared performance:*

Essential characteristic	Performance of product acc. E-30-20369-17		Harmonised specification
Characteristic yield moment $M_{y,k}$ [Nmm]	13 935		EN 1995-1-1
Characteristic withdrawal parameter $f_{ax,k}$ [N/mm <sup>2</sup> ] – for characteristic density of wood 350 kg/m <sup>3</sup>	Perpendicular to the grain	Parallel to the grain	EN 1995-1-1
	2.77	1.96	
Characteristic head pull-through parameter $f_{head,k}$ [N/mm <sup>2</sup> ] – for density of wood 350 kg/m <sup>3</sup>	25.45		EN 1995-1-1
Characteristic tensile capacity $f_{tens,k}$ [kN]	6.99		EN 1383
Class of reaction to fire	A1		EN 13501-1
Zinc coating thickness:	min. 5 $\mu\text{m}$ (service class 1)		EN 1995-1-1

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 according to CPR 305/2011 under the sole responsibility of the manufacturer identified in point 4.

Chwaszczyno, 15.09.2017

Signed by:

R&D Director

Janusz Kabała

Dyrektor Działu Rozwoju  
Produktów

  
Janusz Kabała