

## DECLARATION of PERFORMANCE

NR 03/US4.5/CPR-J-00136-20/2022



1. *Unique identification code of the product-type:* **Wood screws Unix type US  $\phi$ 4.5**  
**Full thread L = (40 ÷ 60)mm**  
**Partial thread L=(40 ÷ 60)mm/L<sub>g</sub>=36mm; L=70mm/L<sub>g</sub>=40mm; L=(80 ÷ 120)mm/L<sub>g</sub>=50mm;**  
**Steel grade C1022 (SAE1022) according to American standard AISI**
2. *Intended use:* **Screws US $\phi$ 4,5 are intended for fixing of wood**
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 od product acc. CPR-J-00136-20		Harmonised specification
	Perpendicular to the grain	Paraller to the grain	
Characteristic yield moment $M_{y,k}$ [Nmm]	2983		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>	16.79	12.94	EN 1995-1-1
Characteristic head pull- through parameter $f_{head,k}$ [N/mm <sup>2</sup> ] – for density of wood 350 kg/m <sup>3</sup>	24.08		EN 1995-1-1
Characteristic tensile capacity $f_{tens,k}$ [kN]	7.52		EN 1383
Characteristic torsional ratio for density of wood 450 kg/m <sup>3</sup>	3.18		EN ISO 10666 EN 14592 +A1 annex B
Class of reaction to fire	A1		EN 13501-1
Zinc coating thickness:	min. 2÷5 $\mu$ 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 3.**

Chwaszczyno, 21.03.2022

Signed by:

R&D Director

Janusz Kabała

Dyrektor Działu Rozwoju  
Produktów

  
Janusz Kabała