



**Strojirenský zkušební ústav, s.p.**  
**(Engineering Test Institute, Public Enterprise)**  
Product certification body  
Hudcova 424/56b, 621 00 Brno, Czech Republic

# CERTIFICATE

Number: **E-30-20277-18**

Manufacturer  
and Manufacturing plant:

LONG HWA SCREW WORKS Co., Ltd.  
No. 9, 1st Street, Industrial Area, Putz  
Chia Yi Hsien, Taiwan, R.O.C

Product,  
Type/Model/Specification:

Screws  $\varnothing$  12.0 mm  
– type of head: HW, WF, IHW, F2  
– Torx recess  
– material: hardened steel 10B21  
– length: (72 to 1000) mm  
– coating type 1: zinc plated or yellow plated, min. 3  $\mu$ m

Assessment of the performance  
of construction product:

see Annex 1 (page 3 of certificate)

Basis of Certificate issuance:

Report on assessment of the performance of construction product  
1015-CPR-30-11323/5 of 2018-06-11

Harmonized standard:

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

Strojirenský zkušební ústav, s.p., (Engineering Test Institute, Public Enterprise) hereby confirms that it has carried out an assessment of the performance in accordance with point 1.4.(b) System 3 Annex V of Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), and has determined the performance of essential characteristics of the construction product.

Product certification scheme applied: ČSN EN ISO/IEC 17067:2014, scheme type 1a.

This Certificate is not a substitute for relevant document issued by Notified Body.

Brno, 2018-06-12



  
Ing. Pavel Šticha  
Director for Certification

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Strojirenský zkušební ústav, s.p., Hudcova 424/56b, 621 00 Brno, Česká republika  
Engineering Test Institute, public enterprise, Hudcova 424/56b, 621 00 Brno, Czech Republic

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## Assessment of the performance of construction product

Product	Characteristic yield moment $M_{y,k}$ [Nmm]		Characteristic withdrawal parameter $f_{ax,k}$ [N/mm <sup>2</sup> ]		Characteristic head pull-through parameter $f_{head,k}$ [N/mm <sup>2</sup> ]	Characteristic tensile capacity $f_{tens,k}$ [kN]	Characteristic torsional ratio
	thread section	smooth section	perpendicular to the grain	parallel to the grain	-	-	
Screws $\varnothing$ 12.0 mm	38 215	96 060	12,11	9,10	24,26 <sup>HW</sup> 23,48 <sup>WF</sup> 23,64 <sup>IHW</sup> 18,11 <sup>F2</sup>	35,66	3,24
Characteristic density of wood $\rho_k$ [kg/m <sup>3</sup> ]	-		350		350	-	450
Durability (i.e. corrosion protection)	zinc plated or yellow zinc plated, min. 3 $\mu$ m (Service Class 1 and 2 acc. to EN 1995-1-1)						