



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

CERTIFICATE

Number: **E-30-20273-18**

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 5.0 mm
– type of head: F2 and WF
– Torx recess
– material: hardened steel 10B21
– length: (30 to 300) mm
– coating type 1: zinc plated or yellow plated, min. 3 μ 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-30-11323/1 of 2018-06-11

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

Strojírenský 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 Štícha
Director for Certification

E-30-20273-18 Page 1 / Total pages 3





Assessment of the performance of construction product

| Product | Characteristic yield moment $M_{y,k}$ [Nmm] | | Characteristic withdrawal parameter $f_{ax,k}$ [N/mm ²] | | Characteristic head pull-through parameter $f_{head,k}$ [N/mm ²] | Characteristic tensile capacity $f_{tens,k}$ [kN] | Characteristic torsional ratio |
|---|---|----------------|--|-----------------------|---|--|--------------------------------|
| | thread section | smooth section | perpendicular to the grain | parallel to the grain | - | - | - |
| Screws ø 5.0 mm | 8 338 | 11 157 | 18,31 | 12,83 | 24,26 ^{F2} 32,46 ^{WF} | 9,58 | 2,74 |
| Characteristic density of wood ρ_k [kg/m ³] | - | - | 350 | | 350 | - | 450 |
| Durability (i.e. corrosion protection) | zinc plated or yellow zinc plated, min. 3 µm (Service Class 1 and 2 acc. to EN 1995-1-1) | | | | | | |