



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

# CERTIFICATE

Number: **E-30-20648-14**

**Manufacturer:** Hašpl a.s.  
Ke Koupališti 172  
549 32 Velké Poříčí, Czech Republic

**Product,  
Type/Model/Specification:** Machine nails and convex nails  $\varnothing$  2,8 mm  
- D type head  
- material: quality steel wire 11 343,  
min. tensile strength 800 MPa  
- without coating and coating type 1  
- length: (50 to 80) mm

**Assessment of the performance  
construction product:** see Annex 1 (page 2 of certificate)

**Basis of Certificate issuance:** Report on assessing the performance construction product  
30-10293/1 of 2014-09-11

**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 art. 1.4.(b) System 3 Annex V of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (Construction Products Regulation - CPR) as amended, and has determined performance of essential characteristics of the construction product.

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

Brno, 2014-09-12



  
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Ing. Pavel Štícha  
Director for Certification





Certificate E-30-20648-14, Annex 1

Assessment of the performance 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]
		across the fibre	along the fibre		
Machine nail ø 2,8 mm	3 607	2,69 <sup>*)</sup>	2,26 <sup>*)</sup>	23,64	2,14
Convex nail ø 2,8 mm	3 278	11,21 <sup>*)</sup>	6,46 <sup>*)</sup>	22,74	1,85
Characteristic density of wood $\rho_k$ [kg/m <sup>3</sup> ]	-	400		400	-
Durability (corrosion protection)	without coating (Service Class 1 acc. to EN 1995-1-1) galvanized, min. 12 $\mu$ m (Service Class 2 acc. to EN 1995-1-1) hot dip galvanized, min. 25 $\mu$ m (Service Class 3 acc. to EN 1995-1-1)				

\*) galvanized

