



Strojirenský zkušební ústav, s. p., Brno, Česká republika  
Engineering Test Institute, Brno, Czech Republic

# CERTIFICATE

Number: **J-30-20207-10 rev.1**

Manufacturer: FRIULSIDER S.p.A.  
Via Trieste, 1, 33048 SAN GIOVANNI AL NATISONE (UD), ITALY

Product: Hex head wood screw  $\varnothing$  5,0 mm,  $\varnothing$  6,0 mm,  $\varnothing$  7,0 mm,  $\varnothing$  8,0 mm,  
 $\varnothing$  10,0 mm,  $\varnothing$  12,0 mm,  $\varnothing$  16,0 mm, DIN 571 (UNI 704)  
- material: steel  
- coating: white zinc plated  
- length: (20 to 400) mm

Type/Model: TIRAFONDO

Product identification and initial-type testing findings: see Annex 1 (page 2)

Base of certificate: Final Report on Initial Type-Testing No. 30-9289/11A dated 2010-09-30

Standard applied: ČSN EN 14592:2009 (id. EN 14592:2008), tab. ZA.1

The Engineering Test Institute confirms that performed with satisfactory result the initial-type testing of the said product according to the requirement stated in Directive 89/106/EEC, Annex III, (2) (ii), second possibility (corresponds with Government Order No. 190/2002 Coll. § 5 art. 1 let. b). Final Report on Initial Type-Testing containing examination findings and data on product identification.

This certificate replaces the certificate J-30-20207-10 dated 2010-06-30.

Brno, Date 2010-09-30



  
Jiří Rozsival  
Deputy Director

Certificate No. J-30-20207-10 rev.1.doc; Page 1/2



Certificate No. J-30-20207-10 rev.1, Annex 1

Product identification and the initial-type testing findings:

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
TIRAFONDO screw ø 5,0 mm	2 299	11,48	32,12	5,20	1,14
TIRAFONDO screw ø 6,0 mm	6 003	7,67	37,34	7,39	1,42
TIRAFONDO screw ø 7,0 mm	9 572	6,48	23,34	9,13	2,37
TIRAFONDO screw ø 8,0 mm	16 611	5,06	22,58	11,81	1,90
TIRAFONDO screw ø 10,0 mm	21 495	7,41	19,53	18,90	1,75
TIRAFONDO screw ø 12,0 mm	66 836	7,36	23,55	34,17	1,61
TIRAFONDO screw ø 16,0 mm	109 588	6,99	16,53	46,27	2,86
characteristic density of wood $\rho_k$ [kg/m <sup>3</sup> ]	--	495	430	--	450
corrosion resistance	grade 2 - no requirement				

Material: steel.

Coating: white zinc plated.

Length: (20 to 400) mm.

Screws are intended for use in wood construction (ø 5,0 mm, ø 6,0 mm) and load bearing wood construction (ø 7,0 mm, ø 8,0 mm, ø 10,0 mm, ø 12,0 mm, ø 16,0 mm).



Certificate No. J-30-20207-10 rev.1.doc; Page 2/2