

RISTEK

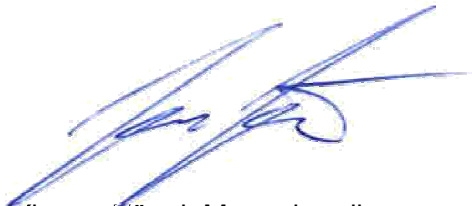
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DECLARATION OF PERFORMANCE DoP

No: 14 / 2018-12-21

- 1 Product type**
Acid-resistant Connector plate
- 2 Product identification**
LL13Haponkestävä
- 3 Intended Use**
Punched metal plate fasteners for structural timber products
- 4 Manufacturer**
Ristek Oy, Teollisuustie 7, FIN-15540Villähde, FINLAND e-mail: sales@ristek.fi
- 5 Authorized representative**
 - OÜ Teemu-E, Peterbulimnt 71, EE 11415 Tallinn Estonia, e-mail: teemu@teemu.ee
 - UAB Metalistas LT, Šermukšnių g. 19, LT-35113Panevėžys Lietuva, e-mail: brone.tomkeviciene@metalistas.lt
- 6 Attestation of Conformity System**
AVCP Class 2+
- 7 Technical specification -hEN**
Initial assessment of FCP
Certificate of factory production control (FPC)
Harmonized Standard
0809 VTT Expert Services Oy
0809 – CPR – 1134
EN 14545: 2008
- 8 Technical specification –ETA**
N/A
- 9 Declared performance**
See table on page 2
- 10 The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and behalf of the manufacturer by:Ristek Oy



Kimmo Köntti, Managing director

Villähde 21.12.2018

9 Declared performance

Essential characters	Performance	Harmonised technical specification
Steel	1.4404	EN 10028-7: 2007
Yield strength (min)	280 MPa	EN 14545: 2008
Ultimate elongation A_{80}	570 MPa	
Durability, corrosion protection	Austenite acid-resistant	
Thickness	1,25 mm	
Characteristic plate anchorage capacity for solid timber C30 Characteristic density $\rho_k = 380 \text{ kg/m}^3$ Thickness $\geq 42 \text{ mm}$	$f_{a,0,0,k} = 3,45 \text{ N/mm}^2$ $f_{a,90,90,k} = 1,97 \text{ N/mm}^2$ $k_1 = -0,003$ $k_2 = -0,038$ $\alpha_0 = 65^\circ$	EN 14545: 2008 VTT-S-04187-14
Characteristic plate tension, compression and shear capacity	$f_{t,0,k} = 315 \text{ N/mm}$ $f_{c,0,k} = 140 \text{ N/mm}$ $f_{v,0,k} = 123 \text{ N/mm}$ $f_{t,90,k} = 237 \text{ N/mm}$ $f_{c,90,k} = 113 \text{ N/mm}$ $f_{v,90,k} = 97 \text{ N/mm}$ $\nu_0 = 20^\circ$ $k_V = 0,52$	
Instantaneous rotational stiffness for solid timber and glued laminated timber (corresponding EN 14545:2008 slip modulus k_{ser} , with timber density $\rho_m = 430 \text{ kg/m}^3$)	$K_{F,ser} = 6,1 \text{ N/mm}^3$	
Nail root ductility	Passed	
Service Class	1, 2 and 3	EN 1995-1-1