RISTEK
Teollisuustie 7, FI-15540 Villähde, FINLAND
tel. +358 (0)50 555 3165, internet www.ristek.fi

DECLARATION OF PERFORMANCE DoP

No: 11 / 2019-01-02

1 Product type
Connector plate

2 Product identification
LL10

3 Intended Use
Punched metal plate fasteners for structural timber products

4 Manufacturer
Ristek Oy, Teollisuustie 7, FIN-15540 Villähde, 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-35113Panevėzys Lietuva, e-mail: brone.tomkeviciene@metalistas.lt

6 Attestation of Conformity System
AVCP Class 2+

7 Technical specification -hEN

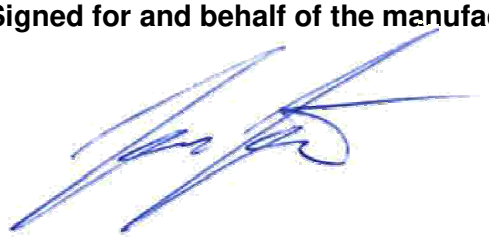
Initial assessment of FCP	0809 VTT Expert Services Oy
Certificate of factory production control (FPC)	0809 – CPR – 1134
Harmonized Standard	EN 14545: 2008

8 Techinical specification –ETA
N/A

9 Declarated performance
See tabe 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 manufdacturer identified in point 4.

Signed for and behalf of the manufacturer by:Ristek Oy



Kimmo Köntti, Managing director

Villähde 02.01.2019

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10 Declaredperformance

Essentialcharacters	**Performance**	**Harmonised technical specification**
Steel	S350GD+Z275-M-A	EN 10346: 2009
Yieldstrength (min)	350 MPa	EN 14545: 2008
Ultimate elongation A_{80}	16 %	
Durability, corrosionprotection	Hot-dip zinc coating Z275-M-A	
Thickness	1,0 mm	
Characteristic plate anchorage capacity for solid timber C24 and glued laminated timber GL30c Characteristic density C24 ρ_k=350kg/m^{3}andGL30c ρ_k = 390kg/m^3 Thickness ≥ 42 mm	$f_{a,0,0,k}$=3,21 N/mm^2 $f_{a,90,90,k}$=1,75 N/mm^2 k_1=-0,010 k_2=-0,002 α_0=60˚	EN 14545: 2008 S-05690-18 VTT certificate n:o 184/03
Charasteristic plate tension, compression and shear capacity	$f_{t,0,k}$ = 184 N/mm $f_{c,0,k}$ =79 N/mm $f_{v,0,k}$ = 99 N/mm $f_{t,90,k}$ = 121 N/mm $f_{c,90,k}$ = 81 N/mm $f_{v,90,k}$ = 73 N/mm γ_0 = 4˚ k_v = 0,54	VTT-C-1781-21
Instantaneous rotational stiffness forsolid timber and glued laminated timber (corresponding EN 14545:2008 slip modulusk_{ser}, with timber dencityρ_m =430kg/m^3)	$K_{F,ser}$= 9,6N/mm^3	
Nailrootductility	Passed	
Service Class	2	EN 1995-1-1