RISTEK
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DECLARATION OF PERFORMANCE DoP

No: 13 / 2018-12-21

1 Product type
Splice joint plate

2 Product identification
LL13Jatkos

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-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 21.12.2018

9 Declaredperformance

Essentialcharacters	**Performance**	**Harmonised technical specification**
Steel	HX420LAD+Z275-M-A	EN 10346: 2009
Yieldstrength (min)	420 MPa	EN 14545: 2008
Ultimate elongation A_{80}	17 %	
Durability, corrosionprotection	Hot-dip zinc coating Z275-M-A	
Thickness	1,3 mm	
Characteristic plate anchorage capacity for solid timber C30 Characteristic densityρ_k=380kg/m^3 Thickness ≥ 39 mm	Nail plate width 96 mm: $f_{a,0,0,k}$ = 2,54 N/mm^2 $f_{a,90,90,k}$ = 1,38 N/mm^2 Nail plate width 120 mm: $f_{a,0,0,k}$ = 2,11 N/mm^2 $f_{a,90,90,k}$ = 1,15 N/mm^2 Nail plate width 144 mm: $f_{a,0,0,k}$ = 2,26 N/mm^2 $f_{a,90,90,k}$ = 1,23 N/mm^2 Nail plate width 180 mm: $f_{a,0,0,k}$ = 2,28 N/mm^2 $f_{a,90,90,k}$ = 1,24 N/mm^2	EN 14545: 2008 VTT-S-02231-15
Characteristic plate anchorage capacity for Kerto-S-LVL Characteristic densityρ_k= 480kg/m^3 Thickness≥ 39 mm	Nail plate width 96 mm: $f_{a,0,0,k}$ = 2,73 N/mm^2 $f_{a,90,90,k}$ = 1,42 N/mm^2 Nail plate width 120 mm: $f_{a,0,0,k}$ = 2,27 N/mm^2 $f_{a,90,90,k}$ = 1,18 N/mm^2 Nail plate width 144 mm: $f_{a,0,0,k}$ = 2,43 N/mm^2 $f_{a,90,90,k}$ = 1,26 N/mm^2 Nail plate width 180 mm: $f_{a,0,0,k}$ = 2,45 N/mm^2 $f_{a,90,90,k}$ = 1,27 N/mm^2	
Charasteristic plate tension, compression and shear capacity	Nail plate width 96 mm: $f_{t,0,k}$ = 339 N/mm $f_{c,0,k}$ =156 N/mm $f_{v,90,k}$ = 116 N/mm Nail plate width 120 mm: $f_{t,0,k}$ = 374 N/mm $f_{c,0,k}$ =136 N/mm $f_{v,90,k}$ = 116 N/mm Nail plate width 144 mm: $f_{t,0,k}$ = 361 N/mm $f_{c,0,k}$ =136 N/mm $f_{v,90,k}$ = 116 N/mm Nail plate width 180 mm: $f_{t,0,k}$ = 361 N/mm $f_{c,0,k}$ =136 N/mm $f_{v,90,k}$ = 116 N/mm	
Instantaneous rotational stiffness forsolid timber and glued laminated timber (corresponding EN 14545:2008 slip modulusk_{ser}, with timber dencityρ_m =430kg/m^3)	$K_{F,ser}$= 5,8N/mm^3	
Corresponding value forKerto-S-LVL (EN 14374)	$K_{F,ser}$= 6,1N/mm^3	
Nailrootductility	Passed	
Service Class	1 and 2	EN 1995-1-1