DECLARATION OF PERFORMANCE

No: DoPMiTopW

Issue: 2021-11-30

1. **Product type**
   MiTek TOP W Connector plate

2. **Product identification**
   MiTek Top W

3. **Intended Use**
   Punched metal plate fasteners for structural timber products

4. **Manufacturer**
   MiTek Industries AB,
   Site 1: Stoerydsvägen 7, SE-573 23 Tranås Sweden
   Site 2: Fredriksbergsgatan 1, SE-573 92 Tranås Sweden
   e-mail: info.mitekab@mii.com, tel. +46 140 385050

5. **Authorized representative:** N/A

6. **Attestation Of Conformity System**
   AVCP Class 2+

7. **Technical specification - hEN**

Harmonized Standard	EN 14545:2008
Certificate of factory production control (FPC)	0402-CPR-SC0950-09
Initial assessment of FPC	0402 RISE Research Institutes of Sweden AB
Continuous assessment of FPC	0402 RISE Research Institutes of Sweden AB

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 of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by: Mitek Industries AB

Tranås 2021-11-30

Technical manager Scandinavia

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9. Declared performance

Essential characteristics	Performance	Harmonised technical specification
Steel	S350GD + Z275	EN 10346:2015
Thickness	1.3 mm	EN 14545:2008
Characteristic plate anchorage capacity / Solid and glued laminated timber with characteristic density of ρ_k = 380 kg/m^3 **Thickness ≥ 38 mm**	$f_{a,0,0}$ = 3.65 N/mm^2 $f_{a,90,90}$ = 1.96 N/mm^2 k_1 = 0.006 k_2 = -0.025 α_0 = 42 °	
Solid and glued laminated timber with characteristic density of ρ_k = 380 kg/m^3 **Thickness < 38 mm**	$f_{a,0,0}$ = 3.34 N/mm^2 $f_{a,90,90}$ = 1.55 N/mm^2 k_1 = 0.005 k_2 = -0.022 α_0 = 42 °	
Characteristic plate tension, compression and shear capacity	$f_{t,0}$ = 252 N/mm; $f_{t,90}$ = 181 N/mm $f_{c,0}$ = 119 N/mm; $f_{c,90}$ = 131 N/mm $f_{v,0}$ = 116 N/mm; $f_{v,90}$ = 84 N/mm γ_0 = 14 °; k_v = 0.71	
Slip modulus with mean timber density ρ_k =420kg/m^3	$k_{ser,mean}$ = 9.4 N/mm^3	
Nail root ductility	Passed	
Durability, Corrosion protection	Z275 Hot-dip zinc coating	
Service Class	2	EN1995-1-1

EN 14374 Laminated veneer lumber:		
Characteristic plate anchorage capacity / Kerto-S LVL For Kerto-T LVL use Kerto-S LVL values multiplied with a reduction factor 0.92	$f_{a,0,0}$ = 3.55 N/mm^2 $f_{a,90,90}$ = 1.97 N/mm^2 k_1 = 0.015 k_2 = -0.028 α_0 = 50°	EN 14545:2008
Slip modulus Kerto-S, LVL	$k_{ser,\ mean}$ = 10.2 N/mm^3	