



DECLARATION OF PERFORMANCE

No: DoPGNT100S

Issue: 2016-02-08

1. **Product type**
MiTek GNT100S Connector plate
2. **Product identification**
GNT100S
3. **Intended Use**
Punched metal plate fasteners for structural timber products
4. **Manufacturer**
MiTek Industries AB, Stoerydsvägen 7, SE-573 23 Tranås Sweden, tel. +46 140 385050
e-mail: info@mitekab.se
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 SP Technical Research Institute of Sweden
Continuous assessment of FPC	0402 SP Technical Research Institute of Sweden
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 2016-02-08



Technical manager Scandinavia

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9. Declared performance

Essential characteristics	Performance	Harmonised technical specification
Steel	S350GD + Z275	EN 10346:2009
Thickness	1.0 mm	EN 14545:2008
Characteristic plate anchorage capacity / Solid and glued laminated timber with characteristic density of $\rho_k = 350 \text{ kg/m}^3$	$f_{a,0,0} = 2.63 \text{ N/mm}^2$ $f_{a,90,90} = 1.52 \text{ N/mm}^2$ $k_1 = 0.002$ $k_2 = -0.006$ $\alpha_0 = 27^\circ$	
Characteristic plate tension, compression and shear capacity	$f_{t,0} = 211 \text{ N/mm}$; $f_{t,90} = 144 \text{ N/mm}$ $f_{c,0} = 77 \text{ N/mm}$; $f_{c,90} = 75 \text{ N/mm}$ $f_{v,0} = 75 \text{ N/mm}$; $f_{v,90} = 56 \text{ N/mm}$ $\gamma_0 = 2.5^\circ$; $k_v = 0.80$	
Slip modulus with mean timber density $\rho_k = 410 \text{ kg/m}^3$	$k_{ser,mean} = 11.1 \text{ N/mm}^3$	
Nail root ductility	Passed	
Minimum timber thickness	35 mm	
Durability, Corrosion protection	Z275 Hot-dip zinc coating	
Service Class	2	EN1995-1-1