DECLARATION OF PERFORMANCE

No: DoPM20

Issue: 02.07.2013

1. **Product type**
   MiTek M20 Connector Plate
2. **Product identification**
   M20
3. **Intended Use**
   Punched metal plate fasteners for structural timber products
4. **Manufacturer**
   MiTek Industries Limited, MiTek House, Grazebrook Industrial Park, Peartree Lane, Dudley, West Midlands, DY2 0XW, United Kingdom tel. +44-384-451400, e-mail: info@mitek.co.uk
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)	1224-CPD-0174
Initial assessment of FPC	1224-BM TRADA Certification
Continuous assessment of FPC	1224-BM TRADA Certification

8. **Technical specification - ETA**
   N/A
9. **Declared performance**

Essential characteristics	Performance	Harmonised technical specification
Steel	S250GD + Z275 NAC/MAC/MBC	EN 10143:2006 & EN 10346:2009
Thickness	1.0 mm	EN 14545:2008
Characteristic plate anchorage capacity / Solid and glued laminated timber with characteristic density of ρ_k = 350 kg/m^3	$f_{a,0,0}$ = 2,82 N/mm^2 $f_{a,90,90}$ = 1,50 N/mm^2 k_1 = -0,0061 k_2 = 0,0170 α_0 = 59,4 °	
Characteristic plate tension, compression and shear capacity	$f_{t,0}$ = 148 N/mm; $f_{t,90}$ = 136 N/mm $f_{c,0}$ = 76 N/mm; $f_{c,90}$ = 88 N/mm $f_{v,0}$ = 69 N/mm; $f_{v,90}$ = 43 N/mm γ_0 = -2,1°; k_v = 0,87	
Slip modulus with mean timber density ρ_m =420kg/m^3	kser, mean = 14.7 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

THE ABOVE TABLE IS FOR BASIC DATA .
FOR MORE COMPLICATED DATA: "See Annex 1"

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 Ltd.**

Tony Fillingham **Technical Services Director UK & Ireland** **Dudley 02.07.2013**