DECLARATION OF PERFORMANCE

No: DoPM16S

Issue: 08.01.2021

1. **Product type**
   MiTek M16S Connector Plate
2. **Product identification**
   M16S
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)[A]	2812-CPR-0174
Initial assessment of FPC	1224– BM TRADA Certification
Continuous assessment of FPC	2812- Element Materials Technology Rotterdam, B.V.

[A] - *The Certificate of factory production control was transferred from BM TRADA Certification to Element Materials Technology Rotterdam, BV in 2020.*

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

Essential characteristics	Performance	Harmonised technical specification
Steel	1.4404	EN ISO 9445-2:2010 & EN 10088-2:2005
Thickness	1.5 mm	EN 14545:2008
Characteristic plate anchorage capacity / Solid and glued laminated timber with characteristic density of ρ_k = 350 kg/m^3	$f_{a,0,0}$ = 2,02 N/mm^2 $f_{a,90,90}$ = 1,78 N/mm^2 k_1 = 0,0031 k_2 = -0,0156 α_0 = 50,40 °	
Characteristic plate tension, compression and shear capacity	$f_{t,0}$ = 397 N/mm; $f_{t,90}$ = 109 N/mm $f_{c,0}$ = 127 N/mm; $f_{c,90}$ = 70 N/mm $f_{v,0}$ = 104 N/mm; $f_{v,90}$ = 123 N/mm γ_0 = -4,0°; k_v = 0,3	
Slip modulus with mean timber density ρ_m =420kg/m^3	kser, mean = 1.8 N/mm^3	
Nail root ductility	Passed	
Minimum timber thickness	45 mm	
Durability, Corrosion protection	Corrosion Resistant Steel	
Service Class	3	EN1995-1-1

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.**

Julian Marcroft **Head of Engineering UK & Ireland** **Dudley 08.01.2021**