

# DECLARATION OF PERFORMANCE



No: DoPM20H

Issue: 2024-03-28

**1. Product type**

MiTek M20H Connector plate

**2. Product identification**

M20H

**3. Intended Use**

Punched metal plate fasteners for structural timber products

**4. Manufacturer**

**Site 1**

MiTek Industries AB, Fredriksbergsgatan 1, SE-573 92 Tranås Sweden

e-mail: info.mitekab@mii.com, tel. +46 140 385050

**Site 2**

MiTek Industries Ltd, Grazebrook Industrial Park, Peartree Lane, Dudley, DY2 0XW, United Kingdom

e-mail: info@mittek.co.uk, tel. +44-384-451400

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

**6. Attestation Of Conformity System**

AVCP Class 2+

**7. Technical specification - hEN**

Harmonized Standard

EN 14545:2008

**Site 1**

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

**Site 2**

Certificate of factory production control (FPC)

2812-CPR-0174

Initial assessment of FPC<sup>A</sup>

1224-BM TRADA Certification

Continuous assessment of FPC

2812-Element Materials Technology Rotterdam, B.V.

<sup>A</sup> - 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**

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 2024-03-28**

  
Technical manager Scandinavia

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

**Dudley 2024-03-28**

  
Head of Engineering UK & Ireland

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## 9 Declared performance

Essential characteristics	Performance	Harmonised technical specification
Steel	S350GD + Z275	EN 10346:2015
Thickness	1.0 mm	EN 14545:2008
Characteristic plate anchorage capacity / Solid and glued laminated timber with characteristic density of $\rho_k = 350 \text{ kg/m}^3$	$f_{a,0,0} = 2.97 \text{ N/mm}^2$ $f_{a,90,90} = 1.37 \text{ N/mm}^2$ $k_1 = -0.0079$ $k_2 = 0.0157$ $\alpha_0 = 60.0^\circ$	
Characteristic plate tension, compression and shear capacity	$f_{t,0} = 171 \text{ N/mm}$ ; $f_{t,90} = 158 \text{ N/mm}$ $f_{c,0} = 88 \text{ N/mm}$ ; $f_{c,90} = 99 \text{ N/mm}$ $f_{v,0} = 83 \text{ N/mm}$ ; $f_{v,90} = 43 \text{ N/mm}$ $\gamma_0 = -11.0^\circ$ ; $k_v = 1.5$	
Slip modulus with mean timber density $\rho_{\text{mean}} = 420 \text{ kg/m}^3$	$k_{\text{ser,mean}} = 12.0 \text{ N/mm}^3$	
Nail root ductility	Passed	
Minimum timber thickness	35 mm	
Durability, Corrosion protection	Z275 Hot-dip zinc coating	
Service Class	2	