



DECLARATION OF PERFORMANCE

According to Annex III of Regulation (EU) No 305/2011 for the product
“MiTek Punched metal plate fastener”

Nr: DoPM20H

(Issue: 2.12.2024)

1. Identification code of the product-type

M20H

2. Intended use

Punched metal plate fasteners for structural timber products

3. 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

4. Authorised representative

5. System/s of AVCP

System 2+

6. Harmonised standard – hEN; EN 14545:2008

NB 2812. Element Materials Technology Rotterdam B.V., Zekeringstraat 33, 1014 BV, Amsterdam, Netherlands
(production site – MiTek Industries Ltd., Dudley, West Midlands, DY2 0XW, UK)

NB 0402. RISE Research Institutes, Brinellgatan 4, SE 504 62 Borås, Sweden
(production site – MiTek Industries AB, Fredriksbergsgatan 1, SE 573 92, Tranås, Sweden)

7. Declared performance

Essential characteristics	Performance
Mechanical Strength and Stiffness	
Characteristics plate anchorage capacity for solid timber with a characteristic density of $\rho_k = 350 \text{ kg/m}^3$	$f_{a,0,0} = 3,02 \text{ N/mm}^2$ $f_{a,90,90} = 1,73 \text{ N/mm}^2$ $k_1 = -0,00256$ $k_2 = 0,01136$ $\alpha_0 = 60,0^\circ$
Characteristic plate tension, compression and shear capacity	$f_{t,0} = 177 \text{ N/mm}$; $f_{t,90} = 166 \text{ N/mm}$ $f_{c,0} = 89 \text{ N/mm}$; $f_{c,90} = 105 \text{ N/mm}$ $f_{v,0} = 88 \text{ N/mm}$; $f_{v,90} = 47 \text{ N/mm}$ $\gamma_0 = -12,0^\circ$; $k_v = 1,32$
Slip modulus with mean timber density $\rho_m = 420 \text{ kg/m}^3$	$k_{ser, mean} = 11,6 \text{ N/mm}^3$
Nail root ductility	Passed
Durability (i.e. corrosion protection)	
Corrosion protection	Z275, Hot-dip zinc coating
Service class	2

8. The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

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

Name: J P Marcroft, Head of Engineering UK & Ireland

Signature:

2.12.2024