

DECLARATION of PERFORMANCE
No 01/ISOTHERM FIX-M/0135/2025



1. Unique identification code of the product-type: **ISOTHERM FIX-M**
2. Intended use: **Fixing of external thermal insulation composite systems (ETICS) in concrete and masonry**
3. Name, registered trade name or registered trade mark and contact address of the manufacturer: **Marcopol Sp. z o.o. Producent Śrub str. Oliwska 100, 80-209 Chwaszczyno Poland**
4. System or systems of assessment and verification of constancy of performance of the construction product: **System "2+" of assessment**
5. European Assessment Document **330196-01-0604 issued 05.2018**
European Technical Assessment: **ETA-25/0135 issued 25.02.2025**
Technical Assessment Body: **Instytut Techniki Budowlanej, Notified Body no: 1488**
6. Declared performance:

Essential characteristic	Performance ISOTHERM FIX-M		Technical Specification
Characteristic resistance under tension load N_{Rk} (kN)	$h_{ef} = 30 \text{ mm}$	$h_{ef} = 70 \text{ mm}$	
Concrete C12/15 EN 206-1	0,70	1,30	ETA 25/0135
Concrete C16/20 ÷ C50/60 EN 206-1	1,00	1,50	
Thin concrete members C16/20 ÷ C50/60 EN 206-1	1,00	1,50	
Clay bricks, MZ, bulk density $\geq 1,8 \text{ (kg/m}^3\text{)}$ EN 771-1	1,00	1,50	
Calcium silicate bricks KS, bulk density $\geq 1,8 \text{ (kg/m}^3\text{)}$ EN 771-2	1,00	1,50	
Calcium silicate hollow block KSL, bulk density $\geq 1,6 \text{ (kg/m}^3\text{)}$ EN 771-2 a = 40 mm	1,00	1,50	
Vertically perforated clay bricks, bulk density Porothersm 25 bulk density $\geq 0,8 \text{ (kg/m}^3\text{)}$ EN 771-1 a = 12 mm	0,50	0,60	
Vertically perforated clay bricks, bulk density Porothersm 25 bulk density $\geq 0,8 \text{ (kg/m}^3\text{)}$ EN 771-1 a = 17 mm	0,55	0,80	
Lightweight concrete hollow block HBL a = 33 mm	0,60	0,90	
Lightweight concrete hollow block Tekno Amerblok PK17,8 a = 30 mm	1,00	1,50	
Lightweight concrete hollow block Tekno Amerblok PK19 a = 30 mm	1,00	1,50	
Lightweight concrete block LAC	0,60	0,90	
Autoclaved aerated concrete AAC2, bulk density $\geq 0,35 \text{ (kg/m}^3\text{)}$ EN 771-4	0,60	0,90	

Autoclaved aerated concrete AAC7, bulk density $\geq 0,65$ (kg/m ³) EN 771-4	0,70		1,20		
Minimum edge distance and spacing					
Minimum thickness of base material s_{min}	100 (mm)				ETA 25/0135
Minimum spacing c_{min}	100 (mm)				
Minimum Edge distance h	100 (mm)				
Displacements	Tension load[kN]		Displacement [mm]		
	$h_{ef} = 30$ mm	$h_{ef} = 70$ mm	$h_{ef} = 30$ mm	$h_{ef} = 70$ mm	
Concrete C12/15 EN 206-1	0,23	0,43	0,10	0,19	ETA 25/0135
Concrete C16/20 ÷ C50/60 EN 206-1	0,33	0,50	0,15	0,22	
Thin concrete members C16/20 ÷ C50/60 EN 206-1	0,33	0,50	0,15	0,22	
Clay bricks, MZ, bulk density $\geq 1,8$ (kg/m ³) EN 771-1	0,33	0,50	0,39	0,45	
Calcium silicate bricks KS, bulk density $\geq 1,8$ (kg/m ³) EN 771-2	0,33	0,50	0,39	0,45	
Calcium silicate hollow block KSL, bulk density $\geq 1,6$ (kg/m ³) EN 771-2 a = 40 mm	0,33	0,50	0,39	0,45	
Vertically perforated clay bricks, bulk density Porotherm 25 bulk density $\geq 0,8$ (kg/m ³) EN 771-1 a = 12 mm	0,17	0,20	0,39	0,45	
Vertically perforated clay bricks, bulk density Porotherm 25 bulk density $\geq 0,8$ (kg/m ³) EN 771-1 a = 17 mm	0,18	0,27	0,39	0,45	
Lightweight concrete hollow block HBL a = 33 mm	0,20	0,30	0,39	0,45	
Lightweight concrete hollow block Tekno Amerblok PK17,8 a = 30 mm	0,33	0,50	0,15	0,22	
Lightweight concrete hollow block Tekno Amerblok PK19 a = 30 mm	0,33	0,50	0,15	0,22	
Lightweight concrete block LAC	0,20	0,30	0,07	0,11	
Autoclaved aerated concrete AAC2, bulk density $\geq 0,35$ (kg/m ³) EN 771-4	0,20	0,40	0,12	0,17	
Autoclaved aerated concrete AAC7, bulk density $\geq 0,65$ (kg/m ³) EN 771-4	0,23	0,30	0,12	0,17	
Point thermal tansmittance					
	Surface/Countersunk istallation				ETA 25/0135
Insulation thickness HD [mm]	40	150	530		
Point thermal transmittance λ [W/K]	0,002/0,001	0,002/0,002	0,001/0,001		
Plate Stiffness	Diameter of the anchor plate d_{plate} [mm]	Load resistance of the anchor plate $N_{u,m}$ [kN]	Plate stiffness $N_{0,m}$ (kN/mm)		ETA 25/0135
	60	2,60	1,0		



7. 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.

Chwaszczyno, 14.04.2025

Signed for and on behalf of the manufacturer by:

Koordinator ds. Aprobata Technicznych

Piotr Kosiński

