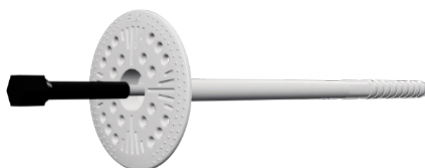


Declaration of Performance
Deklaracja Właściwości Użytkowych
Nr 1/20 - second edition



1. Unique identification code of the product-type:

FIX-M
FIX-M-K



2. Intended use/es:

Nailed-in plastic anchor for fixing of external thermal insulation composite system with rendering in concrete and masonry - with a metal-plastic nail

3. Manufacturer:

ZIEL-PLAST
Zielińscy Spółka Komandytowa
ul. Zamkowa 28
32-652 Bulowice

4. Authorised representative:

5. System/s of AVPC:

System 2+

6.

- a) European Assessment Document: EAD 330196-01-0604 edition of October 2017
- b) European Technical Assessment ETA-19/0573 edition of 13 July 2023
- c) Technical Assessment Body: Deutschen Institiut für Bautechnik - DIBt
- d) Notified body/ies: identification number 1488

7. Declared performance/s:

Characteristic tension resistance						
Base material	Cat.	Bulk density [kg/dm ³]	Compressive strength [N/mm ²]	Drill method	FIX-M	FIX-M-K
					Characteristic resistance	Characteristic resistance
					[kN]	[kN]
Concrete C12/15 acc. to EN 206-1:2000	A	≥ 2,25	≥ 15	hammer	0,50	0,40
Concrete C16/20 ÷ C50/60 acc. to EN 206- 1:2000	A	≥ 2,30	≥ 25	hammer	0,70	0,55
Clay bricks, Mz acc. to EN 771-1:2011	B	≥ 2,00	≥ 20	hammer	0,45	0,45
Calcium silicate bricks, KS acc. to EN 771-2:2011	B	≥ 2,00	≥ 20	hammer	0,45	0,45
Calcium silicate perforated bricks, KSL acc. to EN 771- 2:2011	C	≥ 1,60	≥ 12	hammer	0,45	0,45
Vertical perforated clay bricks, Hlz acc. to EN 771- 1:2011	C	≥ 1,20	≥ 12	rotary	0,25	0,25
Porotherm 25 acc. to EN 771-1:2011	C	≥ 0,80	≥ 10	rotary	0,10	0,10
Lightweight aggregate concrete, LAC acc. to EN 1520:2011 / EN 771-3:2011	D	≥ 0,88	≥ 5	rotary	0,70	0,55
Autoclaved aerated concrete, AAC 2 - AAC 7 acc. to EN 771-4:2011	E	≥ 0,35	≥ 2	rotary	0,35	0,20

Plate stiffness			
Anchor type	Plate diameter	Load resistance	Plate stiffness
	[mm]	[kN]	[kN/mm]
FIX-M / FIX-M-K	60	1,50	0,6

Point thermal transmittance			
Anchor type	Installed condition	Insulation thickness	Point thermal transmittance
		[mm]	[W/K]
FIX-M / FIX-M-K	Surface mount	20	0,003
		150	0,003
		375	0,002
	Immerged mount	40	0,001
		150	0,002
		395	0,002

Displacements				
Base materials	FIX-M		FIX-M-K	
	Tension load	Displacement	Tension load	Displacement
	[kN]	[mm]	[kN]	[mm]
Concrete C12/15 acc. to EN 206-1:2000	0,17	0,22	0,13	0,22
Concrete C16/20 ÷ C50/60 acc. to EN 206-1:2000	0,23	0,31	0,18	0,30
Clay bricks, Mz acc. to EN 771-1:2011	0,15	0,33	0,15	0,28
Calcium silicate bricks, KS acc. to EN 771-2:2011	0,15	0,33	0,15	0,28
Calcium silicate perforated bricks, KSL acc. to EN 771- 2:2011	0,15	0,23	0,15	0,37
Vertical perforated clay bricks, Hlz acc. to EN 771- 1:2011	0,08	0,44	0,08	0,21
Porothersm 25 acc. to EN 771-1:2011	0,03	0,27	0,03	0,12
Lightweight aggregate concrete, LAC acc. to EN 1520:2011 / EN 771-3:2011	0,23	0,25	0,18	0,24
Autoclaved aerated concrete, AAC 2 - AAC 7 acc. to EN 771-4:2011	0,12	0,12	0,07	0,30

8. Appropriate Technical Documentation and/or Specific Technical Documentation:

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.

Aigned for and on behalf of the manufacturer by:

*Tomasz Zieliński
Bulowice, 13.07.2023*

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