

Nailed-in plastic anchors for fixing of external thermal insulation composite systems

BARTOLUCCI Sas di Bartolucci Giorgio & C.
Via Del Commercio, 1 - 60021 Camerano (An), Italy

Intended use or uses of the construction product according to ETAG 014	
Generic type	Nailed-in plastic anchors for fixing of external thermal insulation composite systems
Base material	- Reinforced or unreinforced normal weight concrete of strength class C12/15 at minimum and C50/60 at maximum according to EN 206-1:2000-12 - Solid and perforated masonry
Material	Anchor sleeve: HDPE High-density polyethylene Plastic nail: Glass fibre reinforced polyamide PA6 GF30, black
Durability	At least 25 years
Loading	Static
ETA - 12/0292	
ETA - 12/0292	issued by ETA-Danmark A/S on 10/08/2016
On the basis of	ETAG 014 ed. February 2011
Certificate of Conformity 1220-CPR-1669	issued by ITeC Institut de Tecnologia de la Construcció de Catalunya; Notified Body Number 1220
Under System	2+

Essential Characteristics

Declared performances according to ETAG 014

Resistance to tension loads NRk in Concrete for a single anchor					
Base material	Bulk density class ρ [kg/dm ³]	Minimum Compressive strength F_b [N/mm ²]	General Remarks	Drill Method	NRk [kN]
Normal weight concrete C20/25	≥2.30	≥30.0	EN 206-1	Hammer	0,39
Normal weight concrete C50/60	≥2.40	≥65.0	EN 206-1	Hammer	0,42

Resistance to tension loads NRk in Solid and Perforated Masonry for a single anchor					
Base material	Bulk density class ρ [kg/dm ³]	Minimum Compressive strength F_b [N/mm ²]	General Remarks	Drill Method	NRk [kN]
Clay brick MZ Rd 2,0/20	≥2,0	20,0	Vertically perforation up to 15 %	Hammer	0,47
Perforated ceramic brick (Hlz B – 1.0 1NF 12-1)	≥0,95	≥12,0	Vertically perforation more than 15% and less than 50%	Rotary	0,22

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Plate stiffness according EOTA Technical Report TR 026

Material	d_{plate} [mm]	$N_{u,m}$ [kN]	$V(N_{u,m})$ [%]	$N_{0,m}$ [kN/mm]	$V(N_{0,m})$ [%]
FMN 10xL (max L=130mm)	53	0,8	4,5	0,2	7,4
FMN 10xL (min L=150mm)	58	1,0	3,3	0,2	6,1

Installation parameters

Nominal diameter of drill bit	d_{nom}	[mm]	10
Cutting diameter of drill bit	d_{cut}	[mm]	$\leq 10,45$
Depth of drill hole	h_1	[mm]	≥ 40
Effective anchorage depth	h_{ef}	[mm]	≥ 30

Anchor distances and dimensions of members

Minimum allowable spacing	s_{min}	[mm]	100
Minimum allowable edge distance	c_{min}	[mm]	100
Minimum thickness of member	h_{min}	[mm]	100

Anchor's Dimensions		Anchor sleeve			Expansion pin	
Anchor type		Diameter d_{nom}	Length L	Plate diameter d_t	Diameter d	Length L
FMN 10 x 060	[mm]	10	60	53	5,3	53
FMN 10 x 070	[mm]	10	70	53	5,3	63
FMN 10 x 090	[mm]	10	90	53	5,3	73
FMN 10 x 110	[mm]	10	110	53	5,3	93
FMN 10 x 130	[mm]	10	130	53	5,3	113
FMN 10 x 150	[mm]	10	150	58	5,6	133
FMN 10 x 180	[mm]	10	180	58	5,6	163
FMN 10 x 210	[mm]	10	210	58	5,6	193
FMN 10 x 240	[mm]	10	240	58	5,6	223

The performances of the product identified by the above identification code are in conformity with the declared performance.

This declaration of performance is issued under the sole responsibility of Bartolucci Giorgio.

Signed for and behalf of the manufacturer by:

Name and Functions	Place and date of issue	Signature
GIORGIO BARTOLUCCI Quality & Project Manager	Camerano, 12/05/2022	