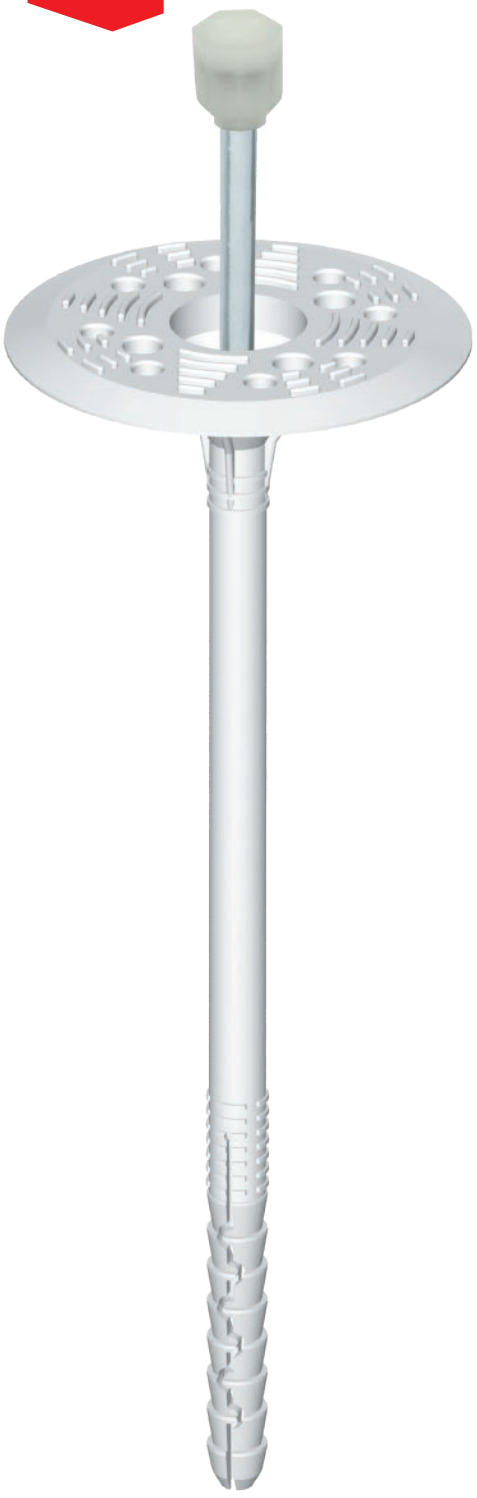
LFM-8

Hammer driven fastener with metal pin and extended expansion zone

POLISH PRODUCER



Description

Universal fastener for fastening polystyrene and mineral wood

Type of insulation material with which the fastener is to be used

Polystyrene foam EPS

Polystyrene foam EPS

Mineral wool

ETAG 014 use cat.

A	B	C	D	E
				
Concrete	Solid clay bricks, Calcium silicate bricks	Porous blocks	Elements on LAC lightweight aggregate	Aerated concrete

Features and advantages of the product

Metal nail's head sealed in plastic

Reduced point thermal transmittance enhances the heat transfer coefficient of the whole barrier, and additionally protects the pin against corrosion

Innovative design of the plug

Large amount of pocket adhesives on the support washer increases the adhesiveness of the mortar
Greater stiffness of the support washer means better holding power of the material fixture

Diameter 8mm

Less drilling required – time and work saving solution

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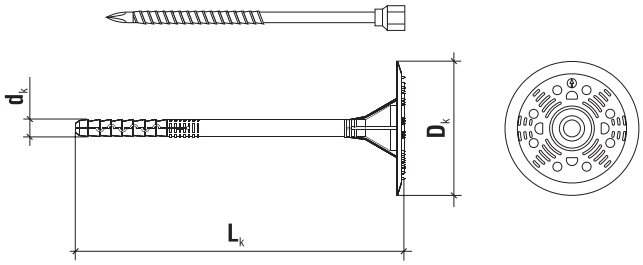


Product marking

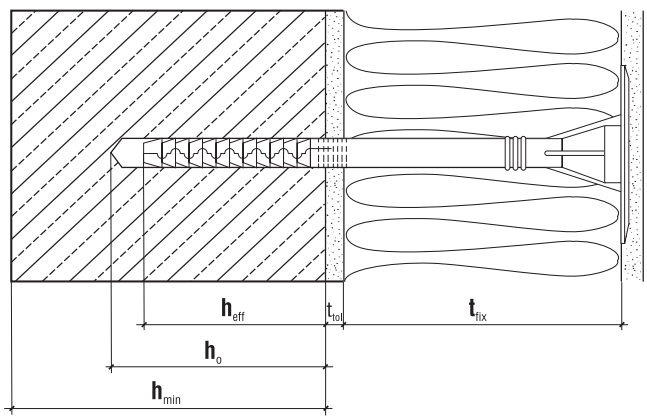
LFM	08	100	(200)
Fastener type	Diameter	Length	Number of pieces in a box

PRODUCT RANGE

	Code	d_k x L_k [mm]	Insulation material thickness t_{fix} [mm]				Pcs
			New buildings		Old buildings		
			t_{tol} adhesive layer of 10 mm		t_{tol} adhesive layer of 10 mm + 20 mm of old plaster		
			without cutter	with cutter	without cutter	with cutter	
ø8	**LFM08100(200)**	8x100	30	50	10	30	200
	LFM08120(200)	8x120	50	70	30	50	200
	LFM08140(200)	8x140	70	90	50	70	200
	LFM08160(200)	8x160	90	110	70	90	200
	LFM08180(200)	8x180	110	130	90	110	200
	LFM08200(200)	8x200	130	150	110	130	200

TECHNICAL DATA

Parameter	Unit	Value
Plug diameter	d_k [mm]	8
Washer diameter	D_k [mm]	60
Anchorage depth	h_{eff} [mm]	60
Drilled hole depth	h_o [mm]	70
Thermal conductivity	χ[W/K]	0.004
Washer stiffness	S [kN/mm]	0.30
Use categories	-	**A B C D E**
Plug material	-	PP
Pin material	-	Carbon steel, nylon coated head
European Technical Approval	-	**ETA-06/0080**



LFM-8

Hammer driven fastener with metal pin and extended expansion zone

RESISTANCE

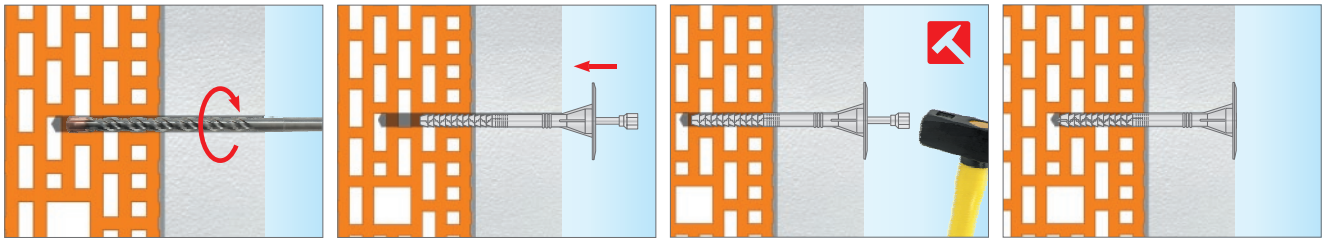
ETAG 014 use cat.	Substrate	Density [kg/dm³]	Characteristic pull-out resistance
A	Concrete C12/15	≥ 1.80	0.50
A	Concrete C20/25	≥ 2.30	0.75
B	Solid clay bricks	≥ 1.61	0.75
C	Calcium silicate hollow blocks	≥ 1.60	0.40
C	Perforated solid brick	≥ 1.20	0.40
D	Lightweight concrete blocks LAC	≥ 1.05	0.60
E	Autoclaved aerate concrete AAC2	≥ 0.35	0.30
E	Autoclaved aerate concrete AAC7	≥ 0.65	0.75

Partial safety factor for anchor resistance γ_m=2 (valid in absence of national regulations)

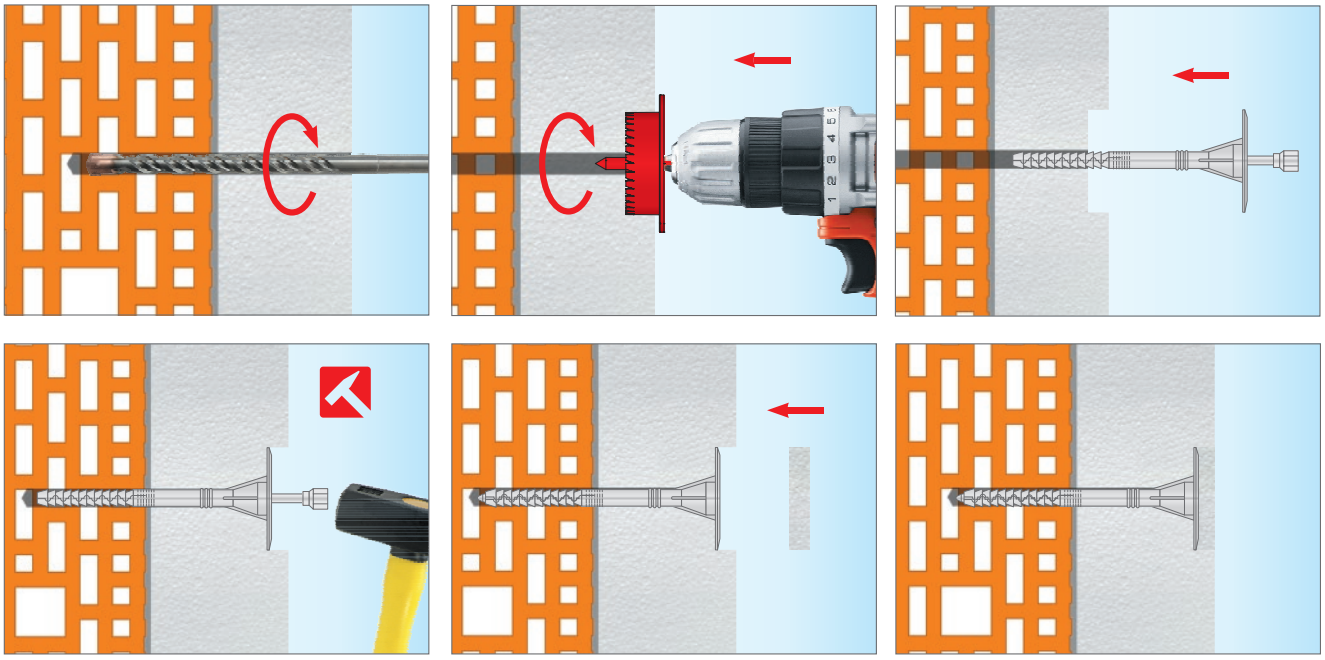
INSTALLATION DATA

Fastener type	LFM 8
Min. base material thickness h_{min} [mm]	100
Minimum anchor spacing L_{os} [mm]	100
Minimum edge distance C_{min} [mm]	100

Installation spot visible



Installation spot covered up with a polystyrene disc



LFM-10

Hammer driven fastener with metal pin and extended expansion zone

POLISH PRODUCER

Description

Universal fastener for fastening of polystyrene and mineral wool

Type of insulation material with which the fastener is to be used

Polystyrene foam EPS

Polystyrene foam EPS

Mineral wool

ETAG 014 use cat.

B	C	D	E
			
Solid clay bricks, Calcium silicate bricks	Porous blocks	Elements on LAC lightweight aggregate	Aerated concrete

Features and advantages of the product

Metal nail's head sealed in plastic

Reduced point thermal transmittance enhances the heat transfer coefficient of the whole barrier, and additionally protects the pin against corrosion

Innovative design of the plug

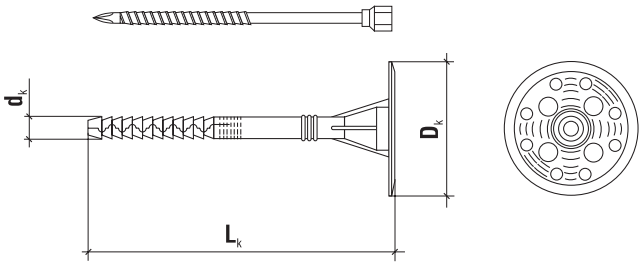
Large amount of pocket adhesives on the support washer increases the adhesiveness of the mortar
Greater stiffness of the support washer means better holding power of the material fixture

Long expansion zone

Long expansion zone ensures steady and reliable distribution of forces in the substrate

LFM-10

Hammer driven fastener with metal pin and extended expansion zone



Product marking

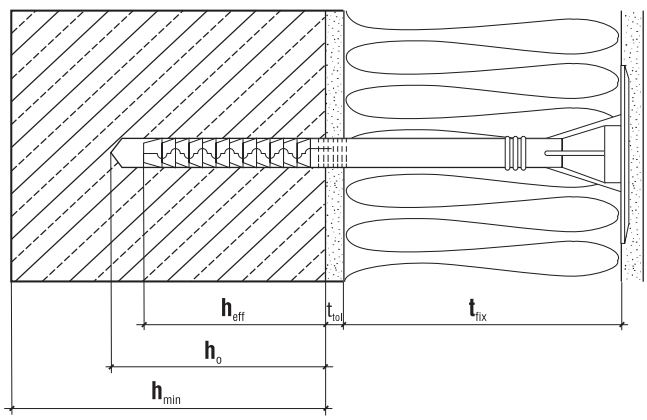
LFM	10	140	(200)
Fastener type	Diameter	Length	Number of pieces in a box

PRODUCT RANGE

	Code	d_k x L_k [mm]	Insulation material thickness t_{fix} [mm]				Pcs
			New buildings		Old buildings		
			t_{tol} adhesive layer of 10 mm		t_{tol} adhesive layer of 10 mm + 20 mm of old plaster		
			without cutter	with cutter	without cutter	with cutter	
ø10	**LFM10140(200)**	10x140	50	70	30	50	200
	LFM10160(200)	10x160	70	90	50	70	200
	LFM10180(200)	10x180	90	110	70	90	200
	LFM10200(200)	10x200	110	130	90	110	200
	LFM10220(100)	10x220	130	150	110	130	100
	LFM10260(100)	10x260	170	190	150	170	100
	LFM10300(100)	10x300	210	230	190	210	100

TECHNICAL DATA

Parameter	Unit	Value
Plug diameter	d_k [mm]	10
Washer diameter	D_k [mm]	60
Anchorage depth	h_{eff} [mm]	80
Drilled hole depth	h_o [mm]	90
Thermal conductivity	χ[W/K]	0.004
Washer stiffness	S [kN/mm]	X
Use categories	-	**B C D E**
Plug material	-	PP
Pin material	-	Carbon steel, nylon coated head
European Technical Approval	-	**ETA-06/0105**



LFM-10

Hammer driven fastener with metal pin and extended expansion zone

RESISTANCE

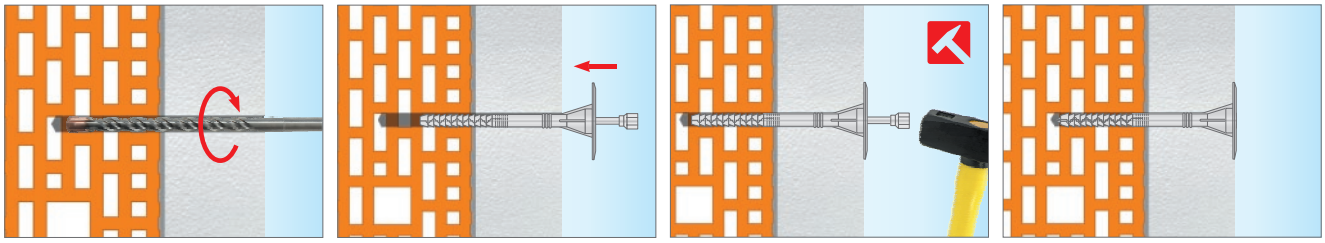
ETAG 014 use cat.	Substrate	Density [kg/dm³]	Characteristic pull-out resistance
B	Solid clay bricks	≥ 1.61	0.75
C	Perforated solid brick	≥ 1.17	0.75
D	Lightweight concrete blocks LAC	≥ 1.05	0.90
E	Autoclaved aerate concrete AAC2	≥ 0.35	0.30
E	Autoclaved aerate concrete AAC7	≥ 0.65	0.75

Partial safety factor for anchor resistance γ_m=2 (valid in absence of national regulations)

INSTALLATION DATA

Fastener type	LFM 10
Min. base material thickness h_{min} [mm]	100
Minimum anchor spacing L_{os} [mm]	100
Minimum edge distance C_{min} [mm]	100

Installation spot visible



Installation spot covered up with a polystyrene disc