

LMX-8

Universal hammer driven fastener with metal pin - short expansion zone













Universal fastener for fastening 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.

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





NEW IMPROVED DESIGN embedment of 25 and 65 mm

Owing to the new design of the expansion zone the fastener can be installed in all substrate categories while maintaining its high strength parameters



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



Short expansion zone, 8 mm diameter

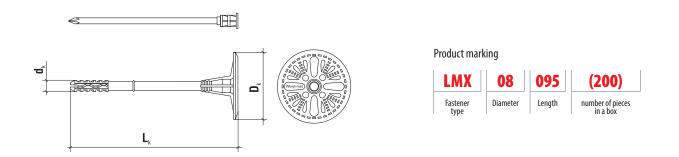
Less drilling required – time and work saving solution





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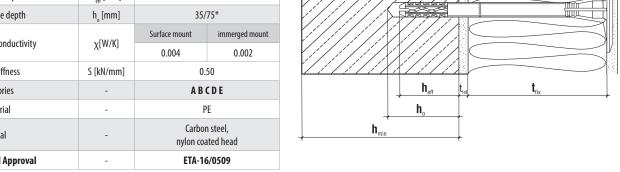
PRODUCT RANGE

	I HOPOGI HANGE						
			Insulation material thickness t _{fix} [mm]				
			New buildings		Old bu	ildings	
		d _k x L _k	t _{tol} adhesive la	ayer of 10 mm		yer of 10 mm f old plaster	
	Code	[mm]	without cutter	with cutter	without cutter	with cutter	Pcs 📄
ø 8	LMX08095(200)	8x95	60/20*	80/40*	40/-*	60/20*	200
ØO	LMX08115(200)	8x115	80/40*	100/60*	60/20*	80/40*	200
	LMX08135(200)	8x135	100/60*	120/80*	80/40*	100/60*	200
	LMX08155(200)	8x155	120/80*	140/100*	100/60*	120/80*	200
	LMX08175(200)	8x175	140/100*	160/120*	120/80*	140/100*	200
	LMX08195(200)	8x195	160/120*	180/140*	140/100*	160/120*	200

^{* -} for substrate use category E (aerated concrete)

TECHNICAL DATA

Parameter	Unit	Value	
Plug diameter	d _k [mm]	8	
Washer diameter	D _k [mm]	6	0
Anchorage depth	h _{eff} [mm]	25/	65*
Drilled hole depth	h _o [mm]	35/75*	
The amend conducativity	χ[W/K]	Surface mount	immerged mount
Thermal conductivity		0.004	0.002
Washer stiffness	S [kN/mm]	0.50	
Use categories	-	ABCDE	
Plug material	-	PE	
Pin material	-	Carbon steel, nylon coated head	
Technical Approval	-	ETA-16/0509	



^{* -} for substrate use category E (aerated concrete)



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RESISTANCE

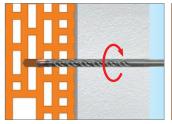
ETAG 014 use cat.	Substrate	Density [kg/dm³]	Characteristic pull-out resistance
A	Concrete C12/15	≥ 2.25	0.50
A	Concrete 20/25 - C50/60	≥ 2.30	0.75
В	Solid clay bricks	≥ 2.00	0.75
В	Calcium silica solid brick	≥ 2.00	0.75
C	Calcium silicate hollow blocks	≥ 1.60	0.75
C	Vertically perforated clay bricks	≥ 1.20	0.60
C	Porotherm 25	≥ 0.80	0.40
D	Lightweight concrete blocks LAC	≥ 0.88	0.75
E	Autoclaved aerate concrete AAC2	≥ 0.35	0.75
E	Autoclaved aerate concrete AAC7	≥ 0.65	0.90

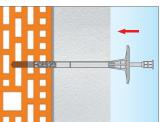
Partial safety factor for anchor resistance $Y_m = 2$ (valid in absence of national regulations)

INSTALLATION DATA

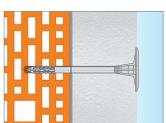
Fastener type	LMX 8
Min. base material thickness h _{min} [mm]	100
Minimum anchor spacing L _{os} [mm]	100
Minimum edge distance C _{min} [mm]	100

Installation spot visible

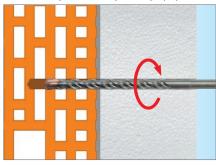


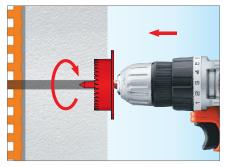


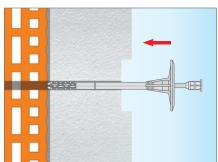


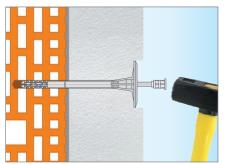


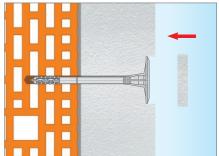
Installation spot covered up with a polystyrene disc

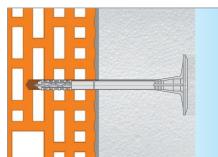














LMX-10

Universal hammer driven fastener with metal pin - short expansion zone













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.

Α	В	C	D	E
		The state of the s		T
Concrete	Solid clay bricks, Calcium silicate	Porous blocks	Elements on LAC	Aerated concrete

Features and advantages of the product



NEW IMPROVED DESIGN embedment of 30 and 50 mm

bricks

Owing to the new design of the expansion zone the fastener can be installed in all substrate categories while maintaining its high strength parameters

aggregate



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



Short expansion zone

Less drilling required – time and work saving solution



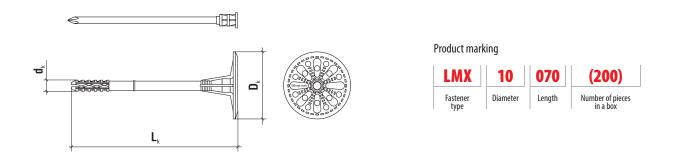
For ventilated facades

Fastener is approved for installing insulation in ventilated façade systems under AT-15-9399/2014 Technical Approval





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PRODUCT RANGE

PRODUCTI	PRODUCT RANGE						
			lı	Insulation material thickness t _{fix} [mm]			
			New b	uildings	Old buildings		
		d _k x L _k	t _{tol} adhesive la	ayer of 10 mm		yer of 10 mm f old plaster	
	Code	[mm]	without cutter	with cutter	without cutter	with cutter	Pcs 📄
م10	LMX10070(200)	10x70	30/10*	50/30*	10/-*	30/10*	200
ø10	LMX10090(200)	10x90	50/30*	70/50*	30/10*	50/30*	200
	LMX10110(200)	10x110	70/50*	90/70*	50/30*	70/50*	200
	LMX10120(200)	10x120	80/60*	100/80*	60/40*	80/60*	200
	LMX10140(200)	10x140	100/80*	120/100*	80/60*	100/80*	200
	LMX10160(200)	10x160	120/100*	140/120*	100/80*	120/100*	200
	LMX10180(200)	10x180	140/120*	160/140*	120/100*	140/120*	200
	LMX10200(200)	10x200	160/140*	180/160*	140/120*	160/140*	200
	LMX10220(100)	10x220	180/160*	200/180*	160/140*	180/160*	100
	LMX10260(100)	10x260	220/200*	240/220*	200/180*	220/200*	100

^{* -} for substrate use category E (aerated concrete)

TECHNICAL DATA

Parameter	Unit	Va	lue
Plug diameter	d _k [mm]	10	
Washer diameter	D _k [mm]	6	0
Anchorage depth	h _{eff} [mm]	30/	50*
Drilled hole depth	h _o [mm]	40/60*	
TI 1 1 2 2	DAL III	Surface mount	immerged mount
Thermal conductivity	χ[W/K]	0.004	0.002
Washer stiffness	S [kN/mm]	0.50	
Use categories	-	ABCDE	
Plug material	-	PE	
Pin material	-	Carbon steel, nylon coated head	
Technical Approval	-	ETA-16/0509	

h_{eff} t_{too} t_{fix}

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RESISTANCE

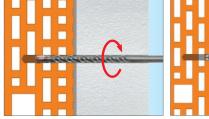
ETAG 014 use cat.	Substrate	Density [kg/dm³]	Character- istic pull-out resistance
A	Concrete C12/15	≥ 2.25	0.75
A	Concrete C20/25 - C50/60	≥ 2.30	0.90
В	Solid clay bricks	≥ 2.00	0.90
В	Calcium silica solid brick	≥ 2.00	0.90
C	Calcium silicate hollow blocks	≥ 1.60	0.90
C	Vertically perforated clay bricks	≥ 1.20	0.90
C	Porotherm 25	≥ 0.80	0.50
D	Elements on LAC lightweight aggregate	≥ 0.88	0.90
E	Autoclaved aerate concrete AAC2	≥ 0.35	0.75
E	Autoclaved aerate concrete AAC7	≥ 0.65	0.90

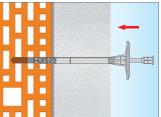
INSTALLATION DATA

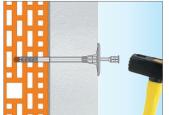
Fastener type	LMX 10
Min. base material thickness h _{min} [mm]	100
Minimum anchor spacing L _{os} [mm]	100
Minimum edge distance C _{min} [mm]	100

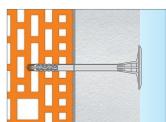
Partial safety factor for anchor resistance $Y_m = 2$ (valid in absence of national regulations)

Installation spot visible









Installation spot covered up with a polystyrene disc

