WKTHERM 8

Hammer driven fastener with metal pin and short expansion zone, Ø 8 mm

ANCHORAGE DEPTH ONLY 25 mm

ETAG 014 A B C

SECURE FIXING OF INSULATING MATERIALS

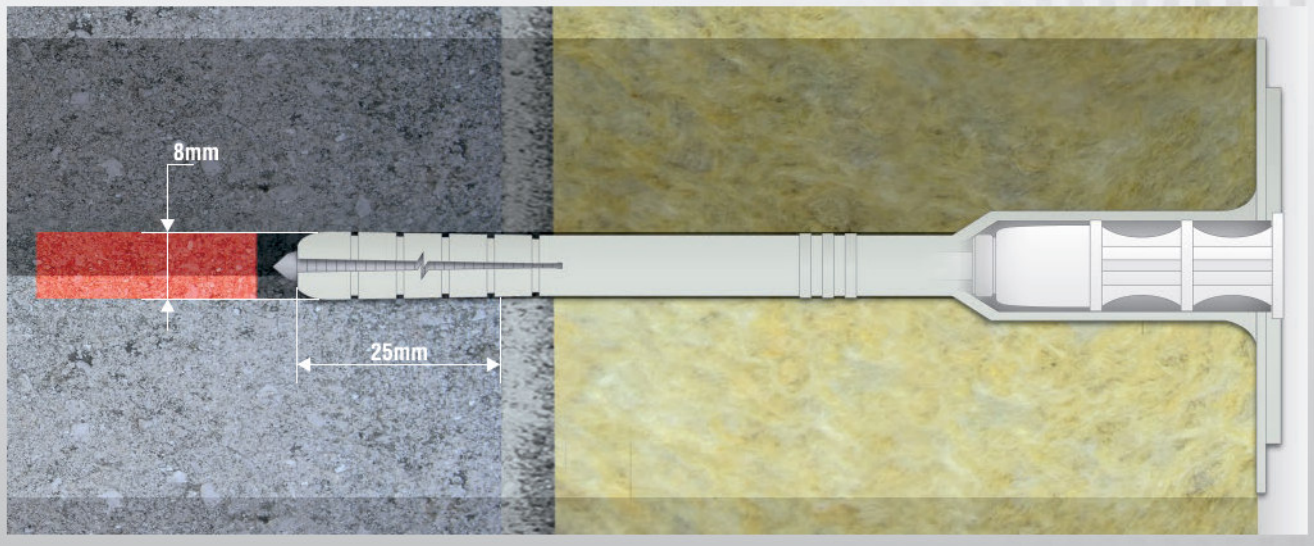
UP TO 280 mm THICK!

WKTHERM 8

Standard thermal insulation fasteners require a time consuming drilling process and drill hole preparation. This extends the installation time and increases the costs of equipment wear and tear, as well as scaffolding hire. Reduced drilling depth saves time and money. WKTHERM fasteners offer substantial benefits. They also offer an innovative approach to thermal protection of buildings. WKTHERM fasteners combine the features of metal and plastic pin fasteners. Extended 25 mm plastic head of the metal pin complies with most recent European standards. It also eliminates heat loss through the so-called "thermal bridge".

WKTHERM fasteners offer state-of-the-artfixing solutions for thermal insulation systems.

UP TO 50% REDUCED DRILL HOLE DEPTH



Improved and shorter expansion zone greatly reduces the depth of the drill hole (even by 55mm) and the drilling time. It also ensures secure installation in both solid materials (concrete, ceramic brick)and hollow walls (chequer brick and silica brick).

Special design of the pin's head and the additional sealing eliminate thermal bridging which frequently occurs in fasteners with metal nail. Hence, this significantly improves the insulation performance of the fixing.

WKTHERM 8

Hammer driven fastener with metal pin and short expansion zone

POLISH PRODUCER

Description

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	B	C
		
Concrete	Solid clay bricks, Calcium silicate bricks	Porous blocks

Features and advantages of the product

Metal nail's head sealed in plastic

Very low point thermal transmittance (0.002 W/K) enhances the heat transfer coefficient of the whole barrier and additionally protects the nail 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, 8mm diameter

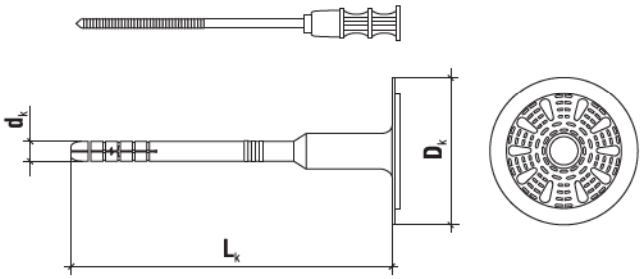
New expansion zone provides for maximum strength of the fastener with a minimum workload and maintaining low equipment outlays

Screw-in fixing

Screw-in parameters and provides for flush fitting of the fastener with the insulation material. These fasteners are real time-savers

WKTHERM 8

Hammer driven fastener with metal pin and short expansion zone



Product marking

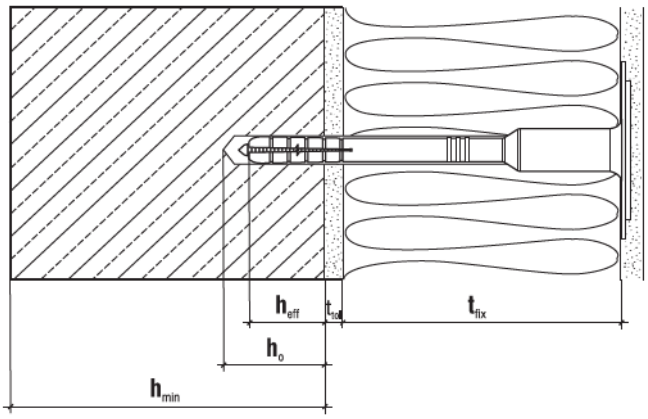
WKTHERM	08	095	(200)
Fastener type	Diameter	Length	Number of pieces in a box

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	WKTHERM08095(200)	8x95	60	80	40	60	200
	WKTHERM08115(200)	8x115	80	100	60	80	200
	WKTHERM08135(200)	8x135	100	120	80	100	200
	WKTHERM08155(200)	8x155	120	140	100	120	200
	WKTHERM08175(200)	8x175	140	160	120	140	200
	WKTHERM08195(200)	8x195	160	180	140	160	200
	WKTHERM08215(100)	8x215	180	200	160	180	100
	WKTHERM08235(100)	8x235	200	220	180	200	100
	WKTHERM08255(100)	8x255	220	240	200	220	100
	WKTHERM08275(100)	8x275	240	260	220	240	100
	WKTHERM08295(100)	8x295	260	280	240	260	100

TECHNICAL DATA

Parameter	Unit	Value
Plug diameter	d_k [mm]	8
Washer diameter	D_k [mm]	60
Anchorage depth	h_{eff} [mm]	25
Drilled hole depth	h_o [mm]	35
Thermal conductivity	χ[W/K]	0.002
Washer stiffness	S [kN/mm]	0.60
Use categories	-	**A B C**
Plug material	-	PE
Pin material	-	Carbon steel, nylon + GF coated head
European Technical Approval	-	**ETA-11/0232**



WKTHERM 8

Hammer driven fastener with metal pin and short expansion zone

RESISTANCE

ETAG 014 use cat.	Substrate	Density [kg/dm³]	Characteristic pull-out resistance
A	Concrete C12/15	≥ 1.80	1.20
A	Concrete >C16/20	≥ 2.30	1.50
B	Solid clay bricks	≥ 1.70	1.50
B	Calcium silica solid brick	≥ 2.00	1.50
C	Calcium silicate hollow blocks	≥ 1.60	1.20
C	Perforated solid brick	≥ 0.95	0.60
C	Vertically perforated ceramic blocks	≥ 0.80	0.60

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

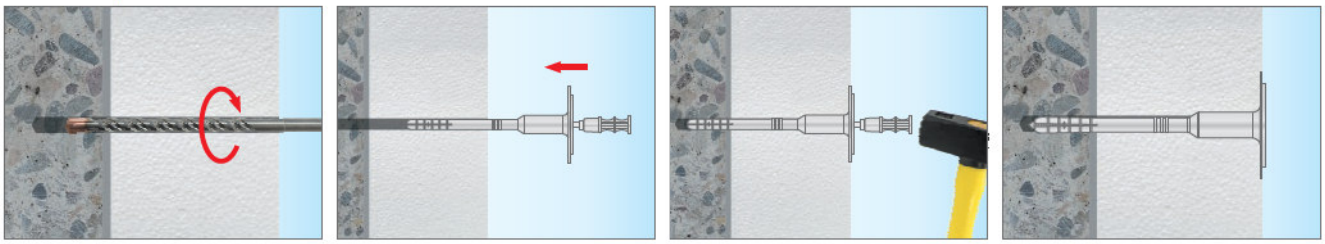
INSTALLATION DATA

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

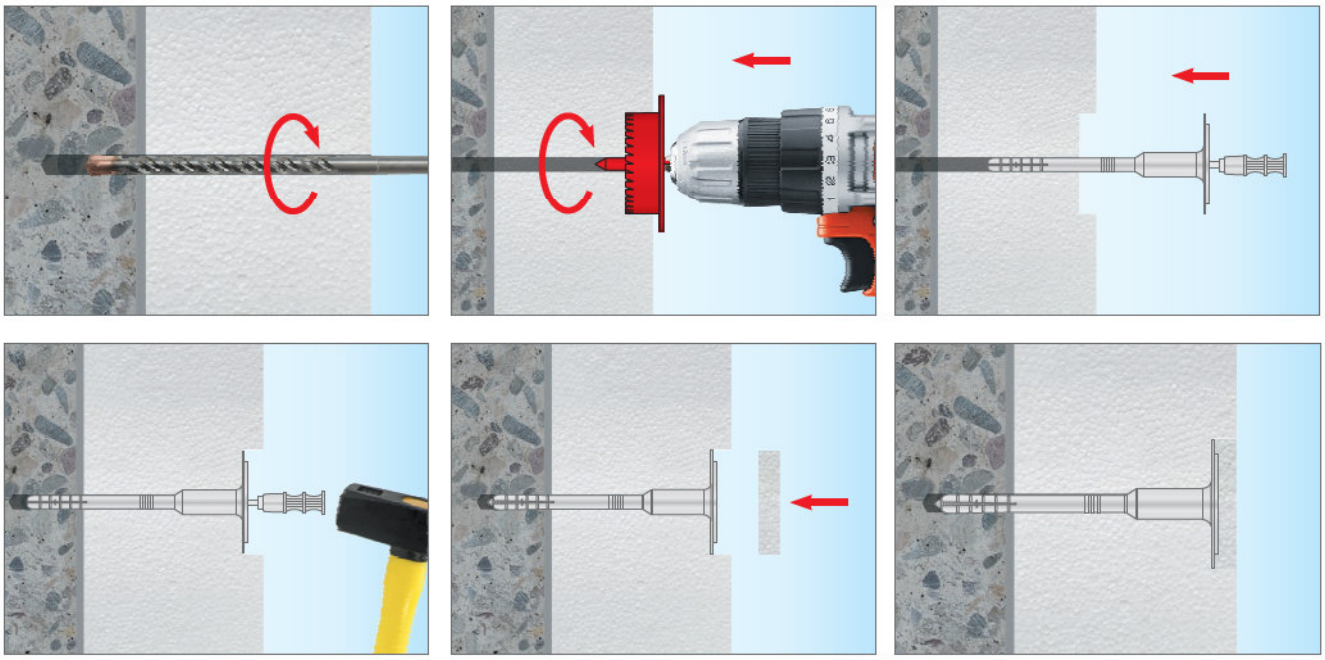
WKTHERM 8
PULL-TROUGH TEST INSULATION SAMPLE [kN]

R panel	EPS 035/60 mm	EPS 040/60 mm
	0.47 [kN]	0.47 [kN]

Installation spot visible



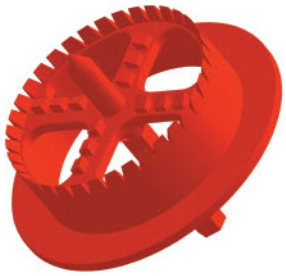
Installation spot covered up with a polystyrene disc



INSTALLATION ACCESSORIES

Plastic cutter for cutting holes in polystyrene

WK-FT | diameter ø 66.7 mm



Specifications:

- Plastic cutter for cutting holes in polystyrene insulation material for insertion of polystyrene disc
- Controlled cutting depth flange collar

Polystyrene disc (white, graphite)

KS, KSG | dimension ø 67 x 17 mm

Specifications:

- Polystyrene disc (white, graphite) for covering up work holes in polystyrene - installation spot covered up; to be used with anchors see Table no. 3 page 22

Support washer

TDX-90, TDX-140 | diameters ø 90 mm, ø 140 mm

Specifications:

- Support plate with diameter of 90 mm for final securing touches in installation of mineral wool (including Lamella), to be used with anchors see Table no. 3 page 22
- Fibreglass reinforced plastic
- Support plate with diameter of 140 mm for final securing touches in installation of mineral wool (including Lamella), to be used with anchors see Table no. 3 page 22
- Fibreglass reinforced plastic

Our products are packed in tough boxes made of coloured corrugated cardboard