

ECO-DRIVE

Innovative screwed-in
anchor with metal pin,
short expansion zone
Ø 8 mm



insulating
materials
up to **360mm**
thick!

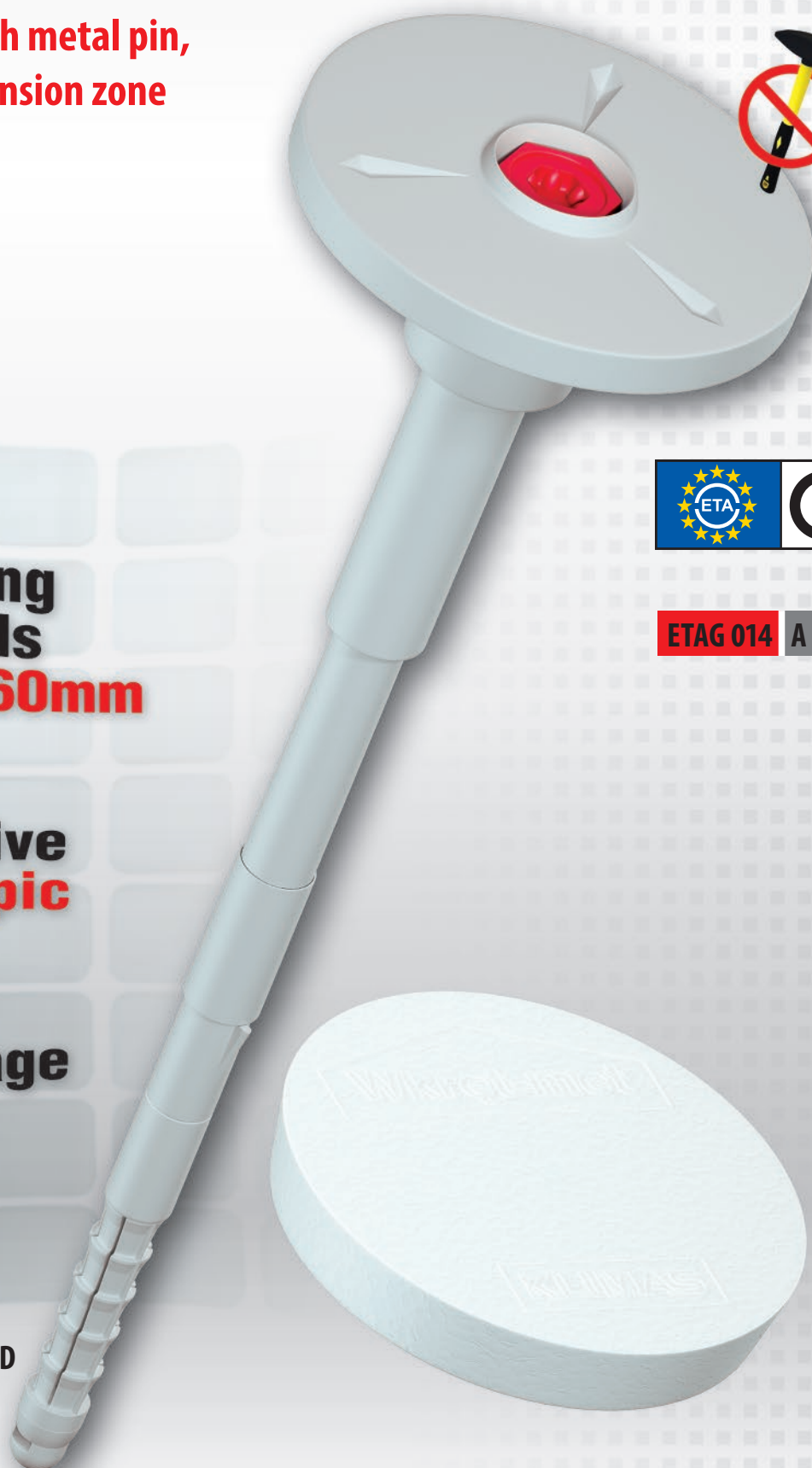
innovative
telescopic
design

anchorage
depth
35mm*
only

* ETAG 014: A B C D



ETAG 014 ABCDE



ECO-DRIVE 8

Screwed-in fastener with metal pin and telescopic design support washer



Description

Universal fastener for fastening of polystyrene

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



Polystyrene foam EPS

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



**Screw-in fixing,
TX-40**

Screw-driven fastener recommended for use in brittle materials to avoid damaging of the substrate with a hammer. Screw-driven nail guarantees achieving best strength parameters and provides for flush fitting of the fastener with the insulation material. These fasteners are real time-savers



**Modern telescopic
design**

Combination of telescopic design and a cutting washer offers a most advanced fastener on the market for covered up installation spot which eliminates the use of cutter and reduces pollution with polystyrene dust



Polystyrene disc

Fasteners are supplied with polystyrene discs, which seriously shortens installation work, eliminates thermal bridging and ensures good aesthetics of the outer layer

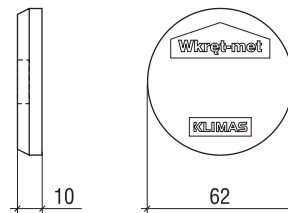
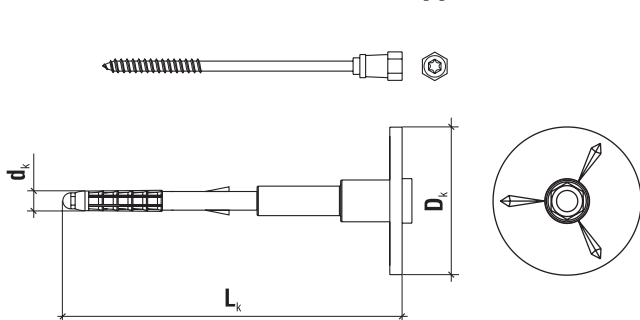


**Pre-assembled
fasteners**

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

ECO-DRIVE 8

Screwed-in fastener with metal pin and telescopic design support washer



Product marking

ECODRIVE	08	150	(100)
Fastener type	Diameter	Length	Number of pieces in a box

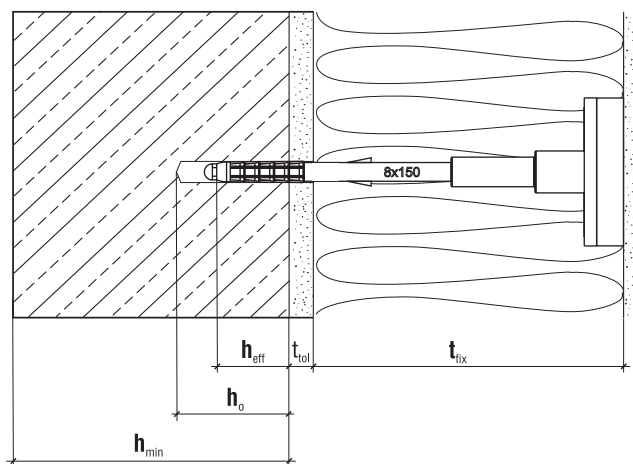
PRODUCT RANGE

	Code	$d_k \times L_k$ [mm]	Insulation material thickness t_{fix} [mm]			Pcs.
			New buildings		Old buildings	
			t_{tot} adhesive layer of 10 mm		t_{tot} adhesive layer of 10 mm + 20 mm of old plaster	
			Cat. A B C D	Cat. E	Cat. A B C D	
Ø8	ECODRIVE-08150(100)	8x150	80	—	—	100
	ECODRIVE-08170(100)	8x170	100	80	80	100
	ECODRIVE-08190(100)	8x190	120	100	100	100
	ECODRIVE-08210(100)	8x210	140	120	120	100
	ECODRIVE-08230(100)	8x230	160	140	140	100
	ECODRIVE-08250(100)	8x250	180	160	160	100
	ECODRIVE-08270(100)	8x270	200	180	180	100
	ECODRIVE-08290(100)	8x290	220	200	200	100
	ECODRIVE-08310(100)	8x310	240	220	220	100
	ECODRIVE-08330(100)	8x330	260	240	240	100
	ECODRIVE-08350(100)	8x350	280	260	260	100
	ECODRIVE-08370(100)	8x370	300	280	280	100
	ECODRIVE-08390(100)	8x390	320	300	300	100
	ECODRIVE-08410(100)	8x410	340	320	320	100
	ECODRIVE-08430(100)	8x430	360	340	340	100

TECHNICAL DATA

Parameter	Unit	Value
Plug diameter	d_k [mm]	8
Washer diameter	D_k [mm]	60
Anchorage depth	h_{eff} [mm]	35/55*
Drilled hole depth	h_o [mm]	45/65*
Thermal conductivity	χ [W/K]	0.002
Washer stiffness	S [kN/mm]	0.60
Use categories	-	A B C D E
Plug material	-	PA
Pin material	-	Carbon steel, nylon + GF coated head
European Technical Approval	-	ETA-13/0107

* - ETAG 014, use category E (aerated concrete)



ECO-DRIVE 8

Screwed-in fastener with metal pin and telescopic design support washer

RESISTANCE

ETAG 014 use cat.	Substrate	Density [kg/dm ³]	Characteristic pull-out resistance
A	Concrete C12/15	≥ 1.80	1.20
A	Concrete >C16/20	≥ 2.30	1.50
B	Solid clay bricks	≥ 2.00	1.50
B	Calcium silica solid brick	≥ 2.00	1.50
C	Calcium silicate hollow blocks	≥ 1.60	1.50
C	Perforated solid brick	≥ 1.20	1.50
C	Lightweight concrete hollow block HBL	≥ 0.80	1.50
D	Lightweight concrete blocks LAC	≥ 1.05	0.90
E	Autoclaved aerate concrete AAC2	≥ 0.35	0.60
E	Autoclaved aerate concrete AAC7	≥ 0.65	1.20

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

INSTALLATION DATA

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

ECO-DRIVE 8

PULL-TROUGH TEST INSULATION SAMPLE [kN]

R panel	EPS 035/80 mm	EPS 040/80 mm
	0.54 [kN]	0.49 [kN]

Installation of a fastener with a polystyrene or mineral wool disc – installation spot covered

