

# WK THERM-S 8

Screwed-in anchor  
with metal pin and short  
expansion zone  $\varnothing$  8 mm



ETAG 014 ABCDE

anchorage  
depth of  
only

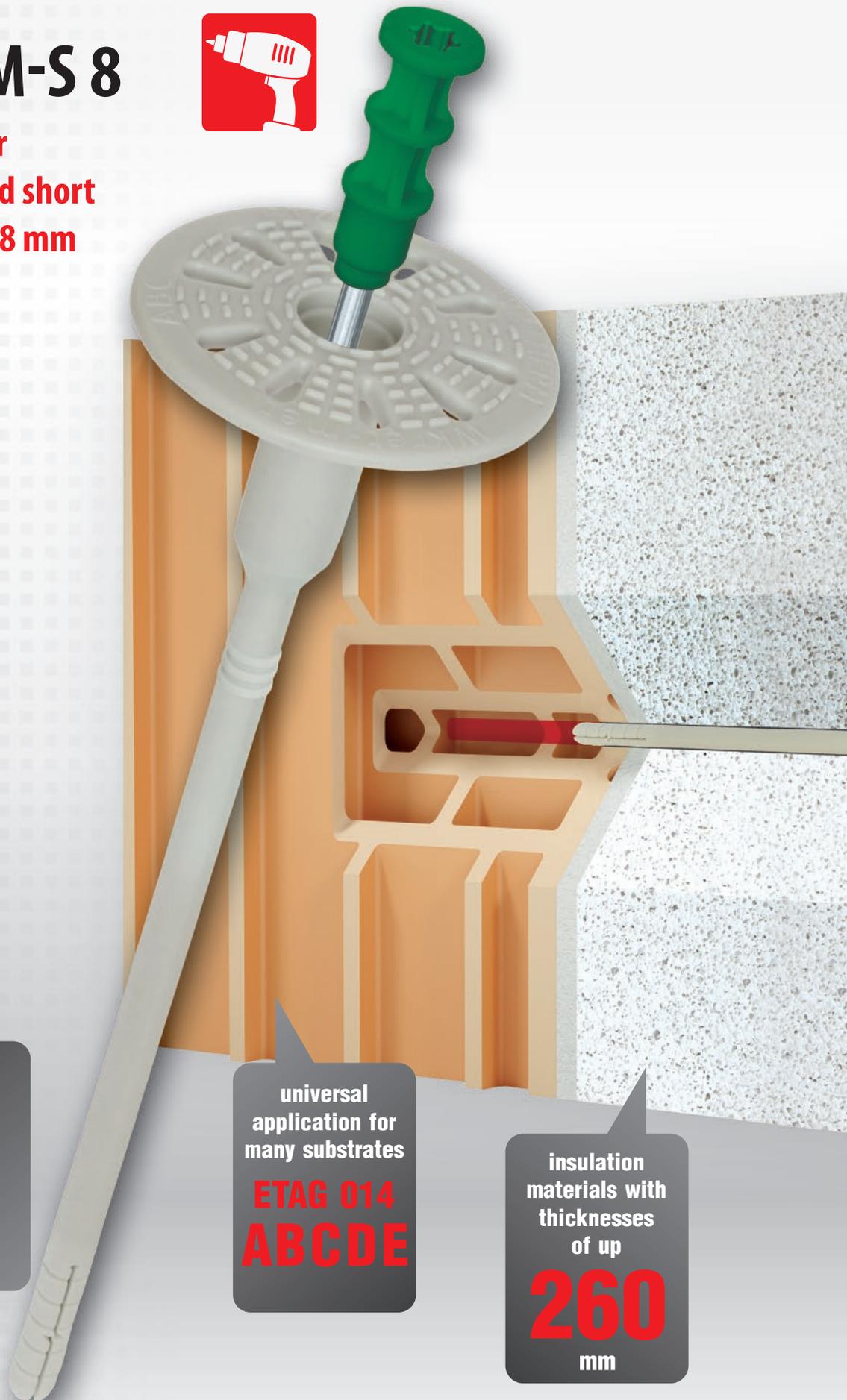
**25**  
mm

universal  
application for  
many substrates

**ETAG 014**  
**ABCDE**

insulation  
materials with  
thicknesses  
of up

**260**  
mm



# FASTENERS FOR EXTERNAL THERMAL INSULATION SYSTEMS

## FASTENERS WITH METAL PIN

Metal pin  
with  
25 mm nylon  
head

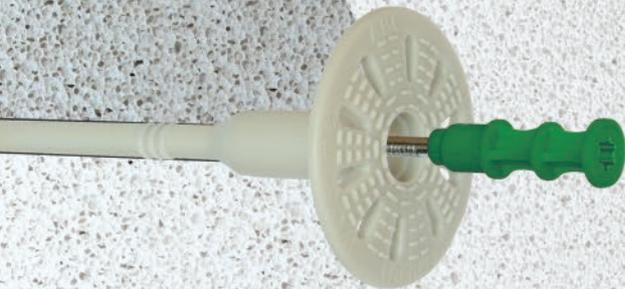
**0,002**  
[W/K]

particularly recommended  
for porous mineral  
insulation materials where  
hammer drive or  
countersinking fasteners  
cannot be used

watch video



[wkręt-met.com/wktherm-s](http://wkręt-met.com/wktherm-s)



screw-in  
**TORX 40**

universal  
application for  
many thermal  
insulation  
materials



can be used  
in stone  
glued to  
the insulation  
layer

# WK THERM-S 8

Screwed-in fastener with metal pin and short expansion zone



TX-40



## Description

Universal screwed-in fastener for all substrates

## 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	Porous blocks	Elements on LAC lightweight aggregate	Aerated concrete

## Features and advantages of the product



### Metal nail's head sealed in plastic

Very low point thermal transmittance (0.002W/K) enhances the heat transfer coefficient of the whole barrier and additionally protects the nail against corrosion



### 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 facilitates flush fitting of the fastener with the insulation material. These fasteners are real time-savers



### 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

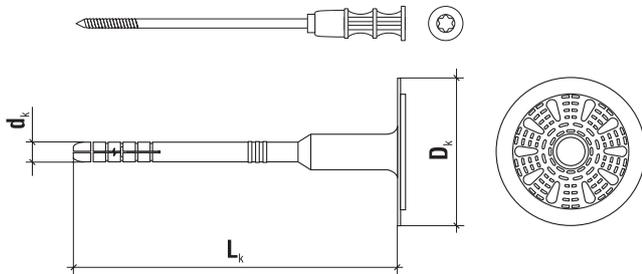


### Short expansion zone, 8 mm diameter.

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

# WK THERM-S 8

## Screwed-in fastener with metal pin and short expansion zone



### Product marking

<b>WK THERM-S</b>	<b>08</b>	<b>095</b>	<b>(200)</b>
Fastener type	Diameter	Length	Number of pieces in a box

### PRODUCT RANGE

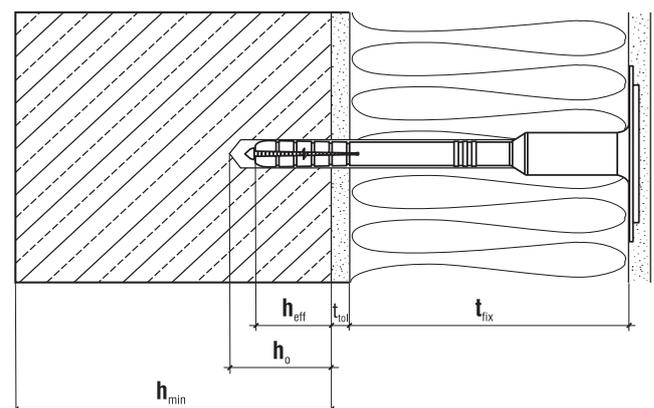
	Code	$d_k \times L_k$ [mm]	Insulation material thickness $t_{fix}$ [mm]				Pcs
			New buildings		Old buildings		
			$t_{tot}$ adhesive layer of 10 mm		$t_{tot}$ adhesive layer of 10 mm + 20 mm of old plaster		
			without cutter	with cutter	without cutter	with cutter	
<b>Ø8</b>	WK THERM-S-08095(200)	8x95	60/20*	80/40*	40/-*	60/20*	200
	WK THERM-S-08115(200)	8x115	80/40*	100/60*	60/20*	80/40*	200
	WK THERM-S-08135(200)	8x135	100/60*	120/80*	80/40*	100/60*	200
	WK THERM-S-08155(200)	8x155	120/80*	140/100*	100/60*	120/80*	200
	WK THERM-S-08175(200)	8x175	140/100*	160/120*	120/80*	140/100*	200
	WK THERM-S-08195(200)	8x195	160/120*	180/140*	140/100*	160/120*	200
	WK THERM-S-08215(100)	8x215	180/140*	200/160*	160/120*	180/140*	100
	WK THERM-S-08235(100)	8x235	200/160*	220/180*	180/140*	200/160*	100
	WK THERM-S-08255(100)	8x255	220/180*	240/200*	200/160*	220/180*	100
	WK THERM-S-08275(100)	8x275	240/200*	260/220*	220/180*	240/200*	100
WK THERM-S-08295(100)	8x295	260/220*	280/240*	240/200*	260/220*	100	

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

### TECHNICAL DATA

Parameter	Unit	Value
Plug diameter	$d_k$ [mm]	8
Washer diameter	$D_k$ [mm]	60
Anchorage depth	$h_{eff}$ [mm]	25/65*
Drilled hole depth	$h_o$ [mm]	35/75*
Thermal conductivity	$\chi$ [W/K]	0.002
Washer stiffness	$S$ [kN/mm]	0.60
Use categories	-	<b>A B C D E</b>
Plug material	-	PE
Pin material	-	Carbon steel, nylon + GF coated head
European Technical Approval	-	<b>ETA-13/0724</b>

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



# WK THERM-S 8 Screwed-in fastener with metal pin and short expansion zone

### RESISTANCE

ETAG 014 use cat.	Substrate	Density [kg/dm <sup>3</sup> ]	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 silicate solid brick	≥ 2.00	1.50
C	Calcium silicate hollow blocks	≥ 1.60	0.90
C	Perforated solid brick	≥ 1.20	0.75
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	WK THERM-S 8
Min. base material thickness $h_{min}$ [mm]	100
Minimum anchor spacing $L_{os}$ [mm]	100
Minimum edge distance $C_{min}$ [mm]	100

### WK THERM-S 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 - an example of a typical application of screw-in WK THERM-S fixing in Multipor insulation material**



**Installation spot visible**

