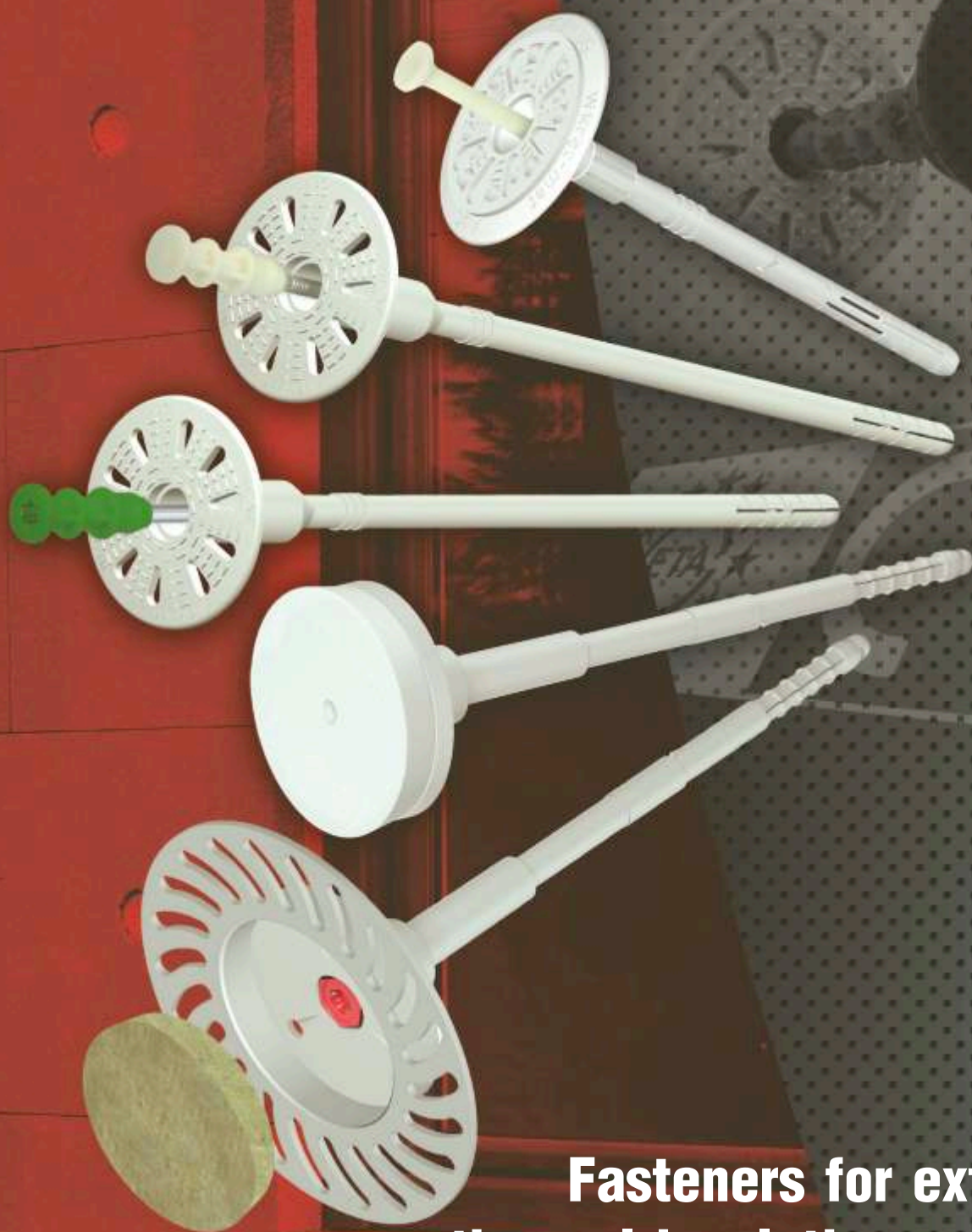




Wkręt-met[®]

FASTENER TECHNOLOGIES



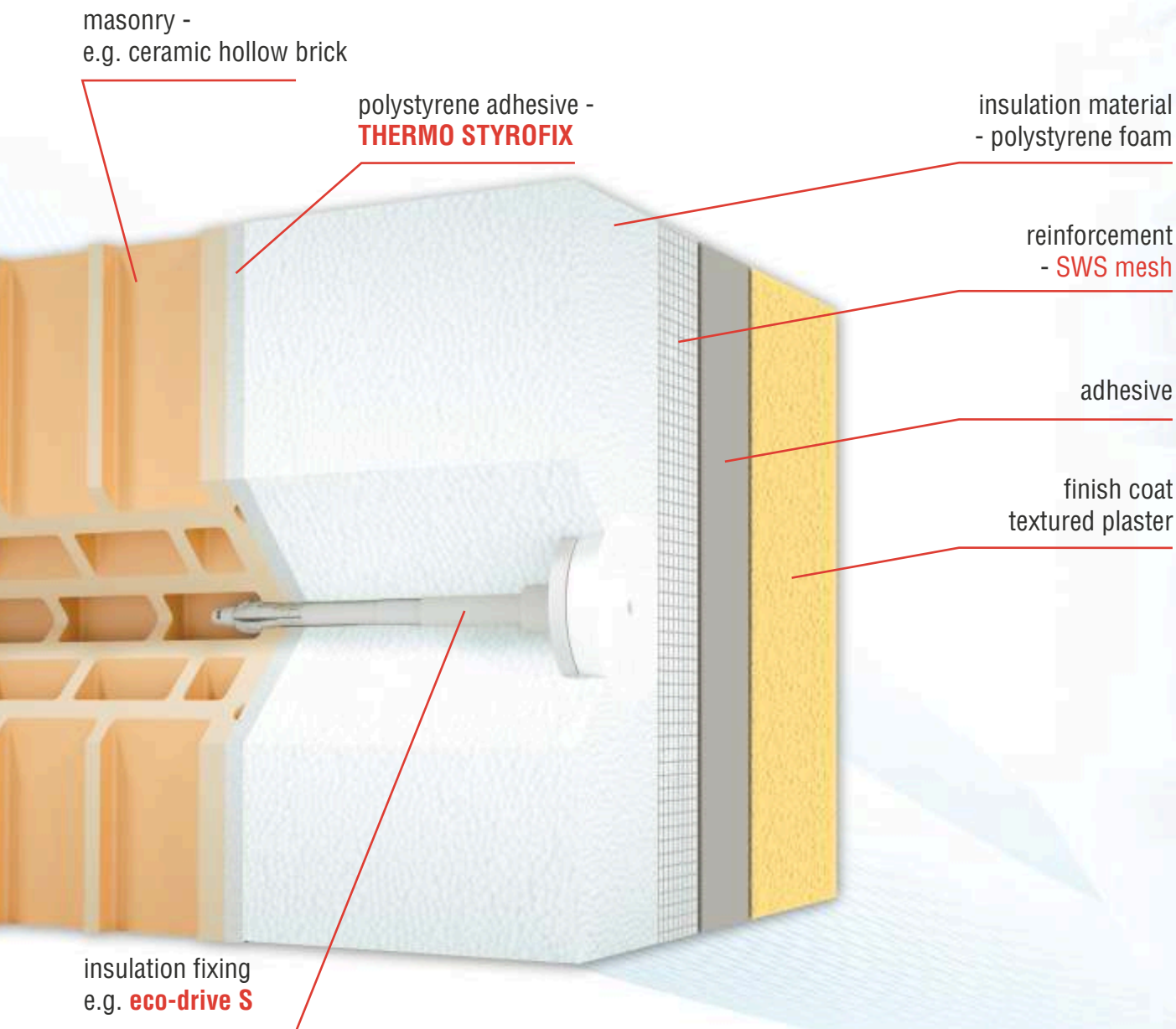
**Fasteners for external
thermal insulation systems**

KLIMAS

WALLS

ETICS - external thermal insulation composite system

External thermal insulation composite system (ETICS) is the most common type of insulation. Generally it consists of insulating material (polystyrene foam/mineral wool) mechanically fixed or bonded with adhesive to the external wall, reinforcing fiberglass mesh embedded into mortar, and finishing plaster.



INSULATION FIXINGS - crucial element of the system

Wkręt-met offers a complete line of high performance thermal insulation fasteners. They are used individually or, being ETA approved, as part of thermal insulation system solutions offered by many companies. ETICS systems in accordance with ETAG 014 require CE marked fixings.



DID YOU KNOW THAT?

Wkręt-met - WKREĆ-MET is the only manufacturer in Europe
to hold 9 EUROPEAN TECHNICAL APPROVALS
covering anchors
for thermal insulation systems (walls)



NEW!

eco-drive S

INNOVATIVE SCREWED-IN ANCHOR
WITH METAL PIN,
COUNTERSUNK INSTALLATION

Ø8mm



ETA-13/0107

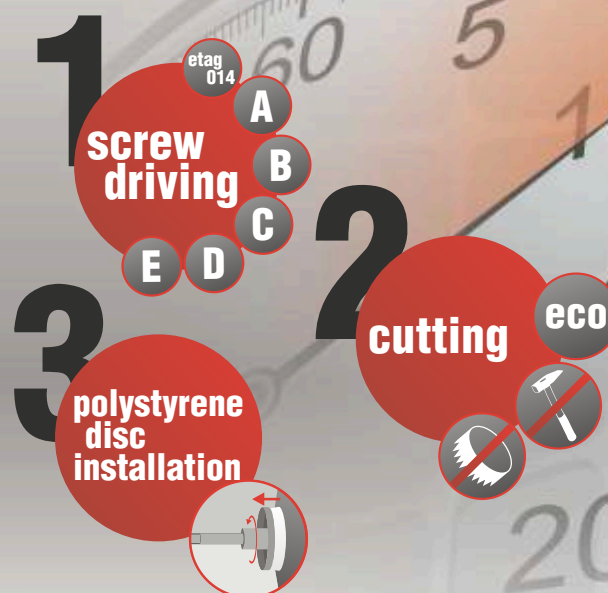
ETAG 014

A B C D E



installation:
quick & easy
even less
than 10 secs

3 processes at 1 time



NEW!

eco-drive

INNOVATIVE SCREWED-IN ANCHOR
WITH METAL PIN,
COUNTERSUNK INSTALLATION
Ø8mm

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

innovative
telescopic
design

anchorage
depth
35mm*
only



ETAG 014

A B C D E



ETA-13/0107





Innovative eco-drive plugs for fixing external thermal insulation systems have been developed through the company's long experience in fixing technology. Extensive consultations with building services providers have resulted in developing a screw plug which meets all the requirements of the present-day construction industry.

The sinking screwed-in eco-drive plug complements the latest state-of-the-art hammer driven FIXPLUG and WK THERM fixing systems.

Eco-drive S and eco-drive plugs conform to the most demanding requirements imposed in European standards, which has been proved in appropriate tests and by having a European Technical Approval issued by the DIBt (German Institute for Civil Engineering) in Berlin.

A wide range of available sizes allows for choosing the best solution for fixing insulation materials of up to 360 mm in depth.

3 processes at 1 time



1 CUTTING

Most builders cut out an opening for a polystyrene disc. The eco-drive plug eliminates the need to use a hammer or any cutting tools. The disc's cutting edge works as the plug is being screwed into the fixture. The eco-drive plug also prevents the material being cut into from spilling around.

2 SCREW DRIVING

Eco-drive plug is an exceptionally reliable plug for the use categories A, B, C, D and E according to ETAG 014.

3 POLYSTYRENE DISC INSTALLATION

With eco-drive there is no need to fix the polystyrene disc separately as it is permanently connected with the screw and driven together with the screw until it levels with the insulation material. Owing to this the installation time is reduced to less than 10 seconds.



Fasteners for external thermal insulation systems - WALLS

eco-drive S / eco-drive ø8

SCREWED-IN ANCHOR WITH METAL PIN AND TELESCOPIC DESIGN SUPPORT WASHER

RESISTANCE

Substrate	Description	Density (kg/dm³)	Standard	Drill	 Characteristic pull-out resistance [kN] eco-drive S / eco-drive
	concrete C12/15	≥1.80	EN 206-1		1.2
	concrete C16/20÷C50/60	≥2.30	EN 206-1		1.5
	solid clay bricks Mz	≥2.0	EN 771-1 DIN 105-100		1.5
	calcium silicate bricks KS (e.g. KS NF 20-2.0)	≥2.0	EN 771-2 DIN V 106		1.5
	calcium silicate hollow block KSL (e.g. KSL-R(P) 8DF)	≥1.6	EN 771-2 DIN V 106		1.5
	vertically perforated clay bricks HLZ (e.g. Hlz B – 1.0 1NF 12-1)	≥1.2	EN 771-1 DIN 105-100		1.5
	lightweight concrete hollow blocks HBL	≥0.8	EN 771-3		1.5
	lightweight concrete blocks LAC	≥1.05	EN 771-3		0.9
	autoclaved aerated concrete AAC2	≥0.35	EN 771-4		0.6
	autoclaved aerated concrete AAC7	≥0.65	EN 771-4		1.2

 hammer drill  no hammering action

EDKSG / EDKS
- polystyrene disc for eco-drive

EDST - eco-drive / eco-drive S setting tool





eco-drive S Ø8

SCREWED-IN ANCHOR WITH METAL PIN AND TELESCOPIC DESIGN SUPPORT WASHER

NEW!



ETAG 014

A B C D E

quick
drill **35mm**

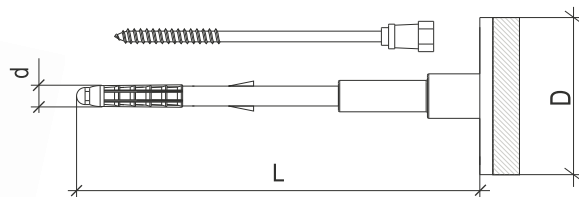
telescopic
design

strong
plus



thermal
pro

Thermal conductivity of
ONLY 0.002 [W/K]!!



PRODUCT RANGE

Code	Diameter & length of the plug d x L[mm]	Insulation material thickness BUILDING	
		NEW*	OLD**
ECODRIVE-S-08150	8 x 150	80 / 60	60
ECODRIVE-S-08170	8 x 170	100 / 80	80
ECODRIVE-S-08190	8 x 190	120 / 100	100
ECODRIVE-S-08210	8 x 210	140 / 120	120
ECODRIVE-S-08230	8 x 230	160 / 140	140
ECODRIVE-S-08250	8 x 250	180 / 160	160
ECODRIVE-S-08270	8 x 270	200 / 180	180
ECODRIVE-S-08290	8 x 290	220 / 200	200
ECODRIVE-S-08310	8 x 310	240 / 220	220
ECODRIVE-S-08330	8 x 330	260 / 240	240
ECODRIVE-S-08350	8 x 350	280 / 260	260
ECODRIVE-S-08370	8 x 370	300 / 280	280
ECODRIVE-S-08390	8 x 390	320 / 300	300
ECODRIVE-S-08410	8 x 410	340 / 320	320
ECODRIVE-S-08430	8 x 430	360 / 340	340

* - adhesive layer of 10 mm - use category A B C D / E

** - adhesive layer of 10 mm + 20 mm of old plaster - use category A B C D

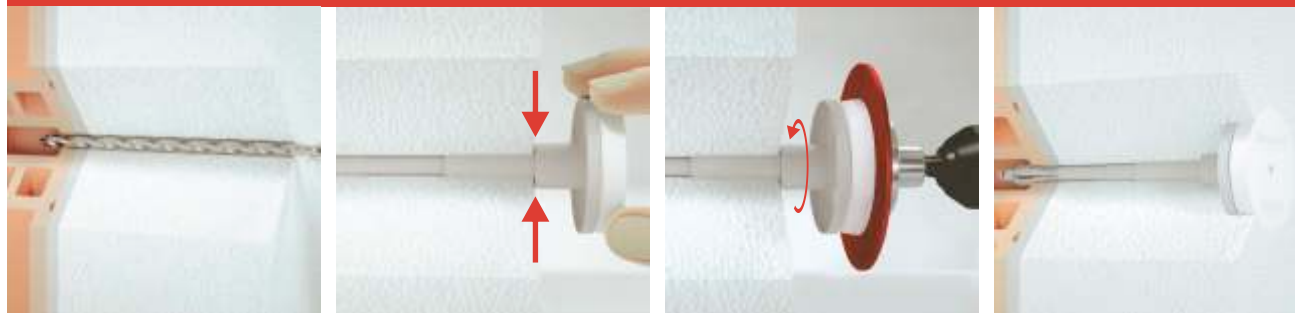
TECHNICAL DATA

Drilled hole diameter	8 mm
Anchorage depth	35 mm* / 55 mm**
Drilled hole depth	45 mm* / 65 mm**
Washer diameter	60 mm
Washer stiffness	0.6 [kN/mm]
European Technical Approval	ETA-13/0107
Plug Material	PA6
Pin type	galvanized zinc plated steel with head coated with PA6+GF

* - etag 014 use category A B C D

** - etag 014 use category E

INSTALLATION METHOD





Fasteners for external thermal insulation systems - WALLS

eco-drive Ø8

SCREWED-IN ANCHOR WITH METAL PIN AND TELESCOPIC DESIGN SUPPORT WASHER

NEW!



ETAG 014

A B C D E

quick
drill **35mm**

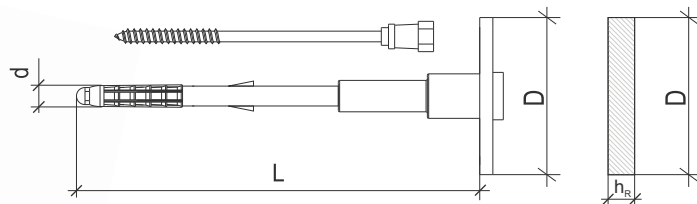
telescopic
design

strong
plus



thermal
pro

Thermal conductivity of
ONLY 0.002 [W/K]!!



PRODUCT RANGE

Code	Diameter & length of the plug d x L [mm]	Insulation material thickness BUILDING	
		NEW*	OLD**
ECODRIVE-08150	8 x 150	80 / 60	60
ECODRIVE-08170	8 x 170	100 / 80	80
ECODRIVE-08190	8 x 190	120 / 100	100
ECODRIVE-08210	8 x 210	140 / 120	120
ECODRIVE-08230	8 x 230	160 / 140	140
ECODRIVE-08250	8 x 250	180 / 160	160
ECODRIVE-08270	8 x 270	200 / 180	180
ECODRIVE-08290	8 x 290	220 / 200	200
ECODRIVE-08310	8 x 310	240 / 220	220
ECODRIVE-08330	8 x 330	260 / 240	240
ECODRIVE-08350	8 x 350	280 / 260	260
ECODRIVE-08370	8 x 370	300 / 280	280
ECODRIVE-08390	8 x 390	320 / 300	300
ECODRIVE-08410	8 x 410	340 / 320	320
ECODRIVE-08430	8 x 430	360 / 340	340

* - adhesive layer of 10 mm - use category A B C D / E

** - adhesive layer of 10 mm + 20 mm of old plaster - use category A B C D

TECHNICAL DATA

Drilled hole diameter	8 mm
Anchorage depth	35 mm* / 55 mm**
Drilled hole depth	45 mm* / 65 mm**
Washer diameter	60 mm
Washer stiffness	0.6 [kN/mm]
European Technical Approval	ETA-13/0107
Plug Material	PA6
Pin type	galvanized zinc plated steel with head coated with PA6+GF

* - etag 014 use category A B C D

** - etag 014 use category E

INSTALLATION METHOD



NEW!

INNOVATIVE SCREWED-IN
ANCHOR FOR MINERAL WOOL
WITH METAL PIN, Ø8mm

eco-drive W



ETA-13/0107

ETAG 014

A B C D E



innovative
telescopic
design &
countersunk
installation



installation:
quick & easy
even less
than **10 secs**



Fasteners for external thermal insulation systems - WALLS

eco-drive W Ø8 SCREWED-IN ANCHOR WITH METAL PIN AND TELESCOPIC DESIGN SUPPORT WASHER FOR MINERAL WOOL

NEW!



ETAG 014
A B C D E

quick
drill **35mm**

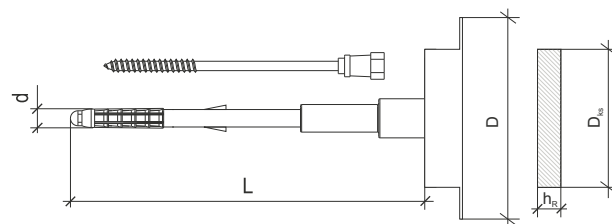
telescopic
design

strong
plus



thermal
pro

Thermal conductivity of
ONLY 0.002 [W/K]!!



PRODUCT RANGE

Code	Diameter & length of the plug d x L [mm]	Insulation material thickness BUILDING	
		NEW*	OLD**
ECODRIVE-W-08150	8 x 150	80 / 60	60
ECODRIVE-W-08170	8 x 170	100 / 80	80
ECODRIVE-W-08190	8 x 190	120 / 100	100
ECODRIVE-W-08210	8 x 210	140 / 120	120
ECODRIVE-W-08230	8 x 230	160 / 140	140
ECODRIVE-W-08250	8 x 250	180 / 160	160
ECODRIVE-W-08270	8 x 270	200 / 180	180
ECODRIVE-W-08290	8 x 290	220 / 200	200
ECODRIVE-W-08310	8 x 310	240 / 220	220
ECODRIVE-W-08330	8 x 330	260 / 240	240
ECODRIVE-W-08350	8 x 350	280 / 260	260
ECODRIVE-W-08370	8 x 370	300 / 280	280
ECODRIVE-W-08390	8 x 390	320 / 300	300
ECODRIVE-W-08410	8 x 410	340 / 320	320
ECODRIVE-W-08430	8 x 430	360 / 340	340

* - adhesive layer of 10 mm - use category A B C D / E

** - adhesive layer of 10 mm + 20 mm of old plaster - use category A B C D

TECHNICAL DATA

Drilled hole diameter	8 mm
Anchorage depth	35 mm* / 55 mm**
Drilled hole depth	45 mm* / 65 mm**
Washer stiffness	0.6 [kN/mm]
European Technical Approval	pending
Plug Material	PA6
Pin type	galvanized zinc plated steel with head coated with PA6

* - etag 014 use category A B C D

** - etag 014 use category E



EDST-W

- eco-drive W
- drive W setting tool

INSTALLATION METHOD



NEW!

SCREWED-IN ANCHOR
FOR MINERAL WOOL
TO TIMBER FIXINGS

drive W



SCREWED-IN ANCHOR
FOR POLYSTYRENE
TO TIMBER FIXINGS

drive S





Fasteners for external thermal insulation systems - WALLS

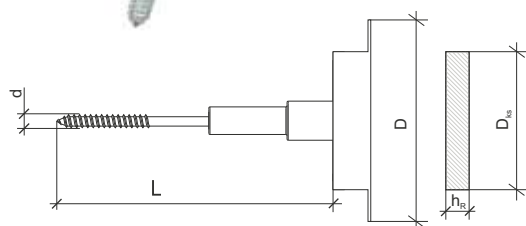
drive W / drive S

SCREWED-IN ANCHOR FOR MINERAL WOOL/POLYSTYRENE TO TIMBER FIXINGS

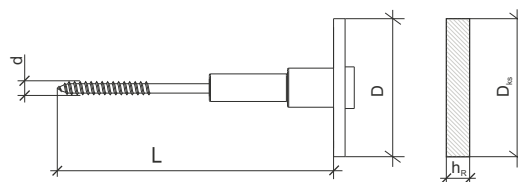
NEW!



Thermal conductivity of
ONLY 0.002 [W/K]!!



NEW!



TECHNICAL DATA	drive S	drive W
Plug diameter d [mm]	6	6
Washer diameter D [mm]	60	110
Anchorage depth h _{eff} [mm]	25	25
Washer stiffness	0,6 [kN/mm]	
European Technical Approval	AT-15-9228/2013	
Plug Material	Polyamide PA	
Pin type	Carbon steel with nylon coated head	



RESISTANCE

Substrate	Anchorage depth (mm)	Design pull-out resistance (kN)
Timber C22	25	1,62
Drewno C22	40	1,62

PRODUCT RANGE

Code	Code	Diameter & length of the plug d x L [mm]	Insulation material thickness
DRIVE-S-06110	DRIVE-W-06110	6 x 110	90
DRIVE-S-06130	DRIVE-W-06130	6 x 130	110
DRIVE-S-06150	DRIVE-W-06150	6 x 150	130
DRIVE-S-06170	DRIVE-W-06170	6 x 170	150
DRIVE-S-06190	DRIVE-W-06190	6 x 190	170
DRIVE-S-06210	DRIVE-W-06210	6 x 210	190
DRIVE-S-06230	DRIVE-W-06230	6 x 230	210
DRIVE-S-06250	DRIVE-W-06250	6 x 250	230
DRIVE-S-06270	DRIVE-W-06270	6 x 270	250
DRIVE-S-06290	DRIVE-W-06290	6 x 290	270
DRIVE-S-06310	DRIVE-W-06310	6 x 310	290
DRIVE-S-06330	DRIVE-W-06330	6 x 330	310
DRIVE-S-06350	DRIVE-W-06350	6 x 350	330
DRIVE-S-06370	DRIVE-W-06370	6 x 370	350
DRIVE-S-06390	DRIVE-W-06390	6 x 390	370

NEW!

WK THERM-S

SCREWED-IN ANCHOR WITH METAL PIN
AND SHORT EXPANSION ZONE, $\varnothing 8\text{mm}$

anchorage
depth

25
mm
only

universal,
for wide range
of substrates

**ETAG 014
ABCDE**

insulating
materials
up to

280
mm

NEW!

WK THERM-S



metalowy
trząpień z 25mm
główką
z tworzywa
0,002
[W/K]

specially designed
for **mineral**
insulation panels
where neither
nailed-in nor
countersunk plugs
are allowed



screw driven
TX 40

universal,
for many
insulation
materials



suitable
for decor
stones
installed
on the
insulation
surface



WK THERM S Ø8

SCREWED-IN ANCHOR WITH METAL PIN AND SHORT EXPANSION ZONE

NEW!

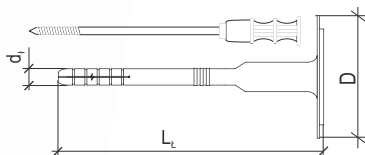


ETAG 014
A B C D E

quick
drill **25mm**



Thermal conductivity of
ONLY 0.002 [W/K]!!



TECHNICAL DATA

Drilled hole diameter	8 mm
Anchorage depth	25mm* / 65mm**
Drilled hole depth	35mm* / 75mm**
Washer diameter	60 mm
Washer stiffness	0,6 [kN/mm]
European Technical Approval	ETA-13/0724
Plug Material	PE - polietylen
Pin type	Carbon steel with nylon coated head

* - ETAG 014, use categories: A B C D,
** - ETAG 014, use category: E

INSULATION TYPE



POLYSTYRENE FOAM



EXTRUDED POLYSTYRENE



MINERAL WOOL



MINERAL WOOL LAMELLA

* with support washer TDX-140 / TDX-90



MINERAL INSULATION PANELS

PRODUCT RANGE

Code	Diameter & length of the plug d x L[mm]	Insulation material thickness						Pcs per pack	
		ETAG 014	NEW BUILDING*			ETAG 014	OLD BUILDING**		
			A	B	C		D		E
WK THERM-S-08095	8 x 95		60	20		40		200	
WK THERM-S-08115	8 x 115		80	40		60	20	200	
WK THERM-S-08135	8 x 135		100	60		80	40	200	
WK THERM-S-08155	8 x 155		120	80		100	60	200	
WK THERM-S-08175	8 x 175		140	100		120	80	200	
WK THERM-S-08195	8 x 195		160	120		140	100	200	
WK THERM-S-08215	8 x 215		180	140		160	120	100	
WK THERM-S-08235	8 x 235		200	160		180	140	100	
WK THERM-S-08255	8 x 255		220	180		200	160	100	
WK THERM-S-08275	8 x 275		240	200		220	180	100	
WK THERM-S-08295	8 x 295		260	220		240	200	100	

* - adhesive layer of 10 mm

** - adhesive layer of 10 mm + 20 mm of old plaster

Attention! Using cutting tool WKFT please calculate 20mm insulation material in addition



Fasteners for external thermal insulation systems - WALLS

WK THERM S Ø8

SCREWED-IN ANCHOR WITH METAL PIN AND SHORT EXPANSION ZONE

RESISTANCE

Substrate	Description	Density [kg/dm³]	Standard	 Characteristic pull-out resistance [kN] WK THERM S
	concrete C12/15	≥1,80	EN 206-1	1,2
	concrete C16/20÷C50/60	≥2,30	EN 206-1	1,5
	solid clay bricks Mz	≥2,0	EN 771-1 DIN 105-100	1,5
	calcium silicate bricks KS (e.g. KS NF 20-2.0)	≥2,0	EN 771-2 DIN V 106	1,5
	calcium silicate hollow block KSL (e.g. KSL-R(P) 8DF)	≥1,6	EN 771-2 DIN V 106	0,9
	vertically perforated clay bricks HLZ (e.g. Hlz B – 1.0 1NF 12-1)	≥1,2	EN 771-1 DIN 105-100	0,75
	lightweight concrete hollow blocks HBL	≥0,8	EN 771-3	0,75
	lightweight concrete blocks LAC	≥1,05	EN 771-3	0,9
	autoclaved aerated concrete AAC2	≥0,35	EN 771-4	0,6
	autoclaved aerated concrete AAC7	≥0,65	EN 771-4	1,2

INSTALLATION METHOD



NEW!

WK THERM

HAMMER DRIVEN FASTENER
WITH METAL PIN
AND SHORT EXPANSION ZONE,
Ø8mm



ETAG 014
A B C

ETA-11/0232



ANCHORAGE
DEPTH
25mm
ONLY



Secure fixing of insulating materials

up to **280mm** thick!

WK THERM

SAVES TIME AND MONEY

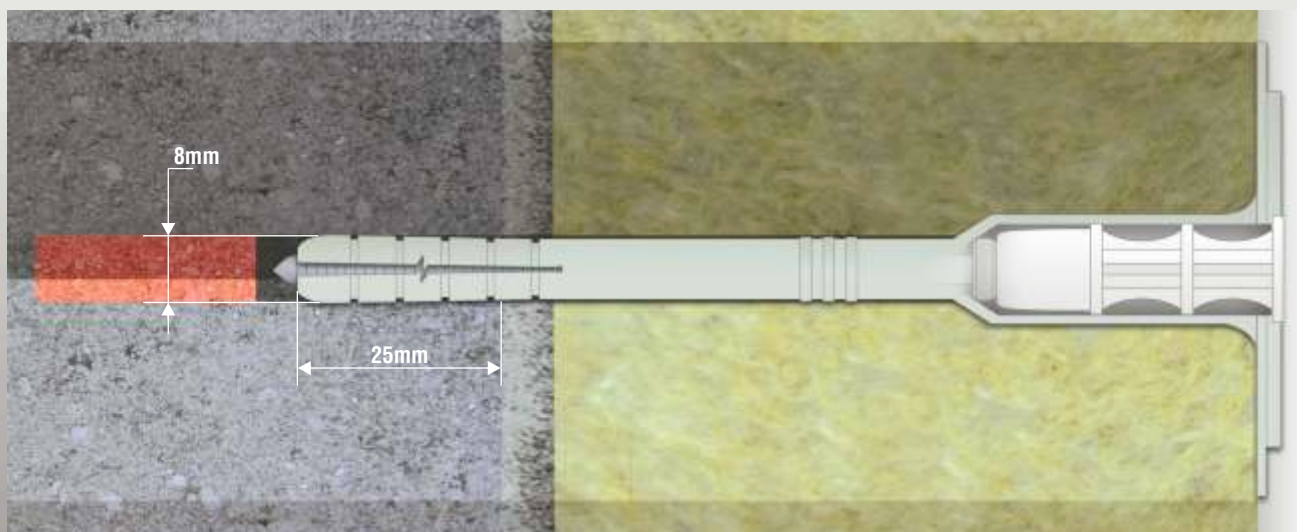


Standard thermal insulation fasteners require a time consuming drilling process and drill hole preparation. This extends the installation time and increases the costs of equipment wear and scaffolding hire. Reduced drilling depth saves time and money. WK THERM fasteners offer substantial benefits. They also offer an innovative approach to thermal protection of buildings. WK THERM 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”.

WK THERM fasteners offer state-of-the-art fixing 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 plug and the pin head as well as additional sealing coat prevent the formation of the so-called thermal bridge, which often occurs with metal pin fasteners. This improves insulating properties of the plug.



WK THERM Ø8

HAMMER DRIVEN FASTENER WITH METAL PIN AND SHORT EXPANSION ZONE

NEW!



ETAG 014

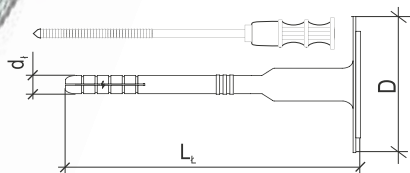
A B C

quick
drill **25mm**



**thermal
pro**

Thermal conductivity of
ONLY 0.002 [W/K]!!



TECHNICAL DATA

Drilled hole diameter	8 mm
Anchorage depth	25 mm
Drilled hole depth	35 mm
Washer diameter	60 mm
Washer stiffness	0.6 [kN/mm]
European Technical Approval	ETA-11/0232
Plug Material	PE
Pin type	Carbon steel with nylon coated head

INSULATION TYPE



POLYSTYRENE
FOAM



EXTRUDED
POLYSTYRENE



MINERAL
WOOL



MINERAL
WOOL
LAMELLA

* with support
washer
TDX-140 /
TDX-90



PRODUCT RANGE

Code	Diameter & length of the plug d _L x L _L [mm]	Insulation material thickness BUILDING		Pcs per pack
		NEW*	OLD**	
WK THERM-08095	8 x 95	60/80	40/60	200
WK THERM-08115	8 x 115	80/100	60/80	200
WK THERM-08135	8 x 135	100/120	80/100	200
WK THERM-08155	8 x 155	120/140	100/120	200
WK THERM-08175	8 x 175	140/160	120/140	200
WK THERM-08195	8 x 195	160/180	140/160	200
WK THERM-08215	8 x 215	180/200	160/180	100
WK THERM-08235	8 x 235	200/220	180/200	100
WK THERM-08255	8 x 255	220/240	200/220	100
WK THERM-08275	8 x 275	240/260	220/240	100
WK THERM-08295	8 x 295	260/280	240/260	100

* - adhesive layer of 10 mm without / with insulation material cuts

** - adhesive layer of 10 mm + 20 mm of old plaster without / with insulation material cuts



INSTALLATION METHOD WITHOUT POLYSTYRENE DISC





Fasteners for external thermal insulation systems - WALLS

WK THERM Ø8

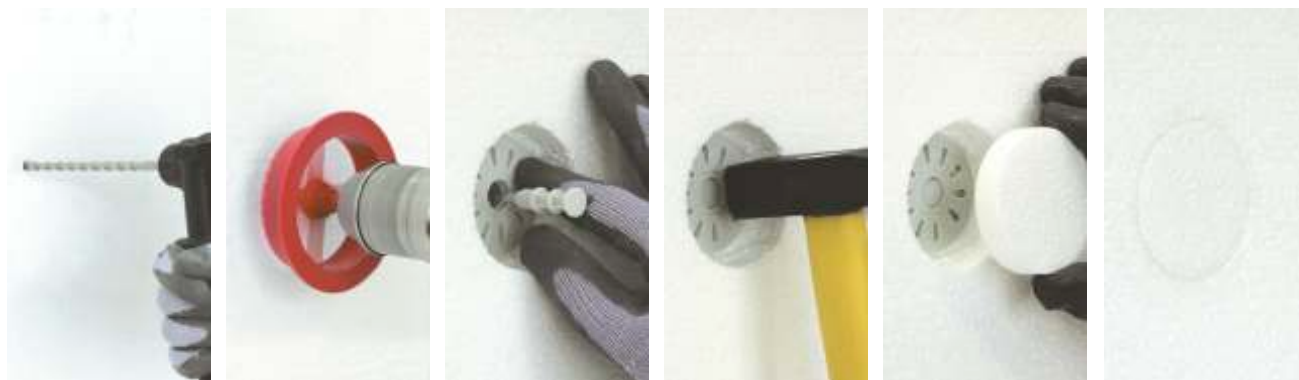
HAMMER DRIVEN FASTENER WITH METAL PIN AND SHORT EXPANSION ZONE

RESISTANCE

Substrate	Description	Density [kg/dm³]	Standard	 Characteristic pull-out resistance [kN] WK THERM Ø8
	concrete C12/15	≥1,80	EN 206-1	1,2
	concrete C20/25 ÷ C50/60	≥2,30	EN 206-1	1,5
	clay brick	≥1,70	EN 771-1	1,5
	calcium silicate brick (e.g. Kalksandstein KS NF 20-2.0 Vollstein - DIN 106)	≥2,0	EN 771-2	1,5
	calcium silicate hollow block (e.g. Kalksandstein KS L-R(P) 8 DF Lochstein - DIN 106)	≥1,6	EN 771-2	1,2
	perforated ceramic brick (e.g. Hlz B – 1.0 1NF 12-1 - DIN 105)	≥0,95	EN 771-1	0,6
	perforated ceramic brick (e.g. Hlz B – 1.0 3NF 12-1 - DIN 105)	≥0,95	EN 771-1	0,6
	vertical perforated porosited block (e.g. Porothersm 25 P+W)	≥0,8	EN 771-1	0,6
	vertical perforated ceramic block (e.g. MEGA-MAX 250)	≥0,8	EN 771-1	0,6

INSTALLATION OF THERMAL INSULATION FASTENERS WITH POLYSTYRENE DISCS

- greatly facilitates the process of surface preparation for applying the finish coat
- makes it possible to use 20 mm shorter fasteners when compared to installation without polystyrene discs
- eliminates thermal bridges



NEW!

FIXPLUG

HAMMER DRIVEN FASTENER
WITH NYLON PIN AND
TELESCOPIC DESIGN
SUPPORT WASHER

Ø8mm, Ø10mm



ETA-11/0231



INNOVATIVE
TELESCOPIC
DESIGN

ETAG 014
A B C

fiberglass reinforced
polyamide



Hitting the support washer
shifts the telescopic element
and ensures

100%

effective and secure fixing.

FIXPLUG

ELIMINATES INSTALLATION ERRORS



Installation of standard fasteners often leads to pin or even whole fastener fracture. This is often caused by an installation error involving restriking of the plug with the expansion pin already placed inside (to level it with insulation material).

FIXPLUG telescopic design enables proper positioning of the expansion pin which ensures easy and failure-free installation.

FIXPLUG fasteners come as a breakthrough for thermal insulation systems.



wkret-met.com/fixplug

Special 4-way expansion guarantees secure installation in ETAG 014; A B and C type materials even when the drill hole has not been cleaned properly

The telescopic design eliminates the problem of pin fracture even during heavy hammering. This results in secure installation with no damage to the pin.

Controlled failure zone of the washer eliminates installation errors by sinking the washer in the insulation material. It is also easier to mask the washer.

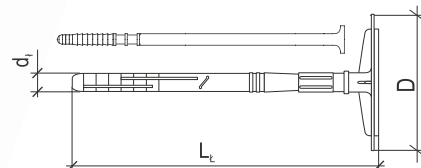


FIXPLUG Ø8,Ø10 HAMMER DRIVEN FASTENER WITH NYLON PIN AND TELESCOPIC DESIGN SUPPORT WASHER

NEW!



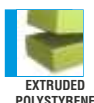
ETAG 014
A B C



TECHNICAL DATA

	FIXPLUG 8	FIXPLUG 10
Drilled hole diameter	8 mm	10 mm
Anchorage depth	40 mm	50 mm
Drilled hole depth	60 mm	70 mm
Washer diameter	60 mm	60 mm
Washer stiffness	0,6 [kN/mm]	
European Technical Approval	ETA-11/0231	
Plug material	PE	
Pin type	fiberglass reinforced polyamide	

INSULATION TYPE



PRODUCT RANGE

Code	Diameter & length of the plug d _p x L _p [mm]	Insulation material thickness BUILDING		Pcs per pack
		NEW*	OLD**	
FIXPLUG-08110	8 x 110	60	40	200
FIXPLUG-08130	8 x 130	80	60	200
FIXPLUG-08150	8 x 150	100	80	200
FIXPLUG-08170	8 x 170	120	100	200
FIXPLUG-08190	8 x 190	140	120	200
FIXPLUG-08210	8 x 210	160	140	100
FIXPLUG-10120	10 x 120	60	40	200
FIXPLUG-10140	10 x 140	80	60	200
FIXPLUG-10160	10 x 160	100	80	200
FIXPLUG-10180	10 x 180	120	100	200
FIXPLUG-10200	10 x 200	140	120	200
FIXPLUG-10220	10 x 220	160	140	100
FIXPLUG-10260	10 x 260	200	180	100

* - adhesive layer of 10 mm

** - adhesive layer of 10 mm + 20 mm of old plaster



Fasteners for external thermal insulation systems - WALLS

FIXPLUG Ø8,Ø10

HAMMER DRIVEN FASTENER WITH NYLON PIN AND TELESCOPIC DESIGN SUPPORT WASHER

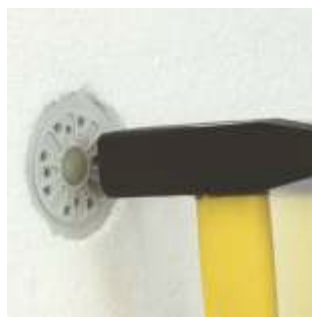
RESISTANCE

Substrate	Description	Density (kg/dm³)	Standard	Characteristic pull-out resistance [kN]	
				FIXPLUG Ø8mm,	Ø10mm
	concrete C12/15	≥1,80	EN 206-1	0,75	0,9
	concrete C20/25 ÷ C50/60	≥2,30	EN 206-1	0,90	1,50
	clay brick	≥1,70	EN 771-1	0,90	1,50
	calcium silicate brick (e.g. Kalksandstein KS NF 20-2.0 Vollstein - DIN 106)	≥2,0	EN 771-2	0,90	1,50
	calcium silicate hollow block (e.g. Kalksandstein KS L-R(P) 8 DF Lochstein - DIN 106)	≥1,6	EN 771-2	0,60	0,75
	perforated ceramic brick (e.g. Hlz B – 1.0 1NF 12-1 - DIN 105)	≥0,95	EN 771-1	0,40	0,60
	perforated ceramic brick (e.g. Hlz B – 1.0 3NF 12-1 - DIN 105)	≥0,95	EN 771-1	0,40	0,60
	vertical perforated porosited block (e.g. Porotherm 25 P+W)	≥0,8	EN 771-1	0,40	0,50
	vertical perforated ceramic block (e.g. MEGA-MAX 250)	≥0,8	EN 771-1	0,40	-

INSTALLATION METHOD (SINKING THE WASHER IN POLYSTYRENE PANELS)

Installation of thermal insulation fasteners with telescopic action washers:

- by sinking the washer in the insulation material it facilitates the process of surface preparation for applying the finish coat
- eliminates the problem of “breaking pins” during faulty installation of nylon pin fasteners





ŁFM Ø8, Ø10 SCREW/HAMMER DRIVEN FASTENER WITH METAL PIN AND EXTENDED EXPANSION ZONE



ŁFM Ø8

ETAG 014

A B C D E



ŁFM Ø10

ETAG 014

B C D E



TECHNICAL DATA

	ŁFM Ø8	ŁFM Ø10
Drilled hole diameter	8 mm	10 mm
Anchorage depth	60 mm	80 mm
Drilled hole depth	70 mm	90 mm
Washer diameter	60 mm	60 mm
European Technical Approval	ETA-06/0080	ETA-06/0105
Plug Material	PP	
Pin type	Carbon steel with nylon coated head	

INSULATION TYPE



* with support washer TDX-140 / TDX-90



PRODUCT RANGE

Code	Diameter & length of the plug d _x x L _t [mm]	Insulation material thickness BUILDING		Pcs per pack
		NEW*	OLD**	
LFM-08100	8 x 100	30/50	-/-	200
LFM-08120	8 x 120	50/70	30/50	200
LFM-08140	8 x 140	70/90	50/70	200
LFM-08160	8 x 160	90/110	70/90	200
LFM-08180	8 x 180	110/130	90/110	200
LFM-08200	8 x 200	130/150	110/130	200
LFM-10140	10 x 140	50/70	-/-	200
LFM-10160	10 x 160	70/90	50/70	200
LFM-10180	10 x 180	90/110	70/90	200
LFM-10200	10 x 200	110/130	90/110	200
LFM-10220	10 x 220	130/150	110/130	100
LFM-10260	10 x 260	170/190	150/170	100
LFM-10300	10 x 300	210/230	190/210	100

* - adhesive layer of 10 mm without / with insulation material cuts

** - adhesive layer of 10 mm + 20 mm of old plaster without / with insulation material cuts



Fasteners for external thermal insulation systems - WALLS

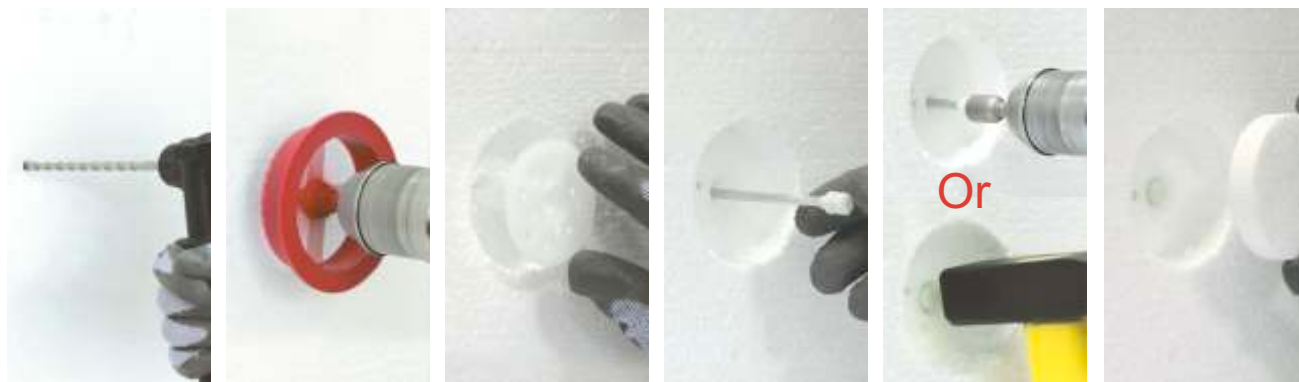
ŁFM Ø8,Ø10 SCREW/HAMMER DRIVEN FASTENER WITH METAL PIN AND EXTENDED EXPANSION ZONE

RESISTANCE

Substrate	Description	Density (kg/dm³)	Standard	Characteristic pull-out resistance [kN]	
				ŁFM Ø8mm,	Ø10mm
	concrete C12/15	≥1,80	EN 206-1	 0,5	-
	concrete C20/25 ÷ C50/60	≥2,30	EN 206-1	 0,75	-
	clay brick	≥1,60	EN 771-1	 0,75	 0,75
	calcium silicate hollow block (e.g. Kalksandstein KS L-R(P) 8 DF Lochstein - DIN 106)	≥1,6	EN 771-2	 0,4	-
	perforated ceramic brick (e.g. Hlz B – 1.0 1NF 12-1 - DIN 105)	≥1,2	EN 771-1	 0,4	-
	perforated ceramic block	≥1,17	PN-B-12011:1997	-	 0,75
	lightweight aggregate blocks	≥1,05	EN 771-3	 0,6	 0,9
	autoclaved aerated concrete AAC2	≥0,35	EN 771-4	 0,3	 0,3
	autoclaved aerated concrete AAC7	≥0,6	EN 771-4	 0,75	 0,75

INSTALLATION OF THERMAL INSULATION FASTENERS WITH POLYSTYRENE DISCS

- greatly facilitates the process of surface preparation for applying the finish coat
- makes it possible to use 20 mm shorter fasteners when compared to installation without polystyrene discs
- eliminates thermal bridges

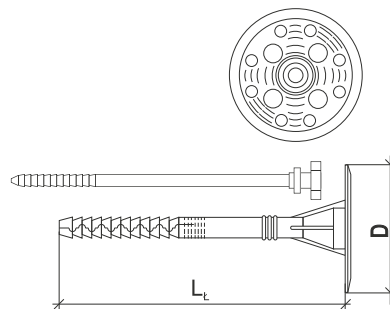




ŁFN Ø10 HAMMER DRIVEN FASTENER WITH NYLON PIN AND EXTENDED EXPANSION ZONE



ETAG 014
B C



TECHNICAL DATA

Drilled hole diameter	10 mm
Anchorage depth	80 mm
Drilled hole depth	90 mm
Washer diameter	60 mm
European Technical Approval	ETA-06/0105
Plug Material	PP
Pin type	fiberglass reinforced polyamide

PRODUCT RANGE

Code	Diameter & length of the plug d _t x L _t [mm]	Insulation material thickness BUILDING		Pcs per pack
		NEW*	OLD**	
LFN-10140	10 x 140	50/70	30/50	200
LFN-10160	10 x 160	70/90	50/70	200
LFN-10180	10 x 180	90/110	70/90	200
LFN-10200	10 x 200	110/130	90/110	200
LFN-10220	10 x 220	130/150	110/130	100
LFN-10260	10 x 260	170/190	150/170	100
LFN-10300	10 x 300	210/230	190/210	100

* - adhesive layer of 10 mm without / with insulation material cuts

** - adhesive layer of 10 mm + 20 mm of old plaster without / with insulation material cuts

INSULATION TYPE



POLYSTYRENE
FOAM



EXTRUDED
POLYSTYRENE

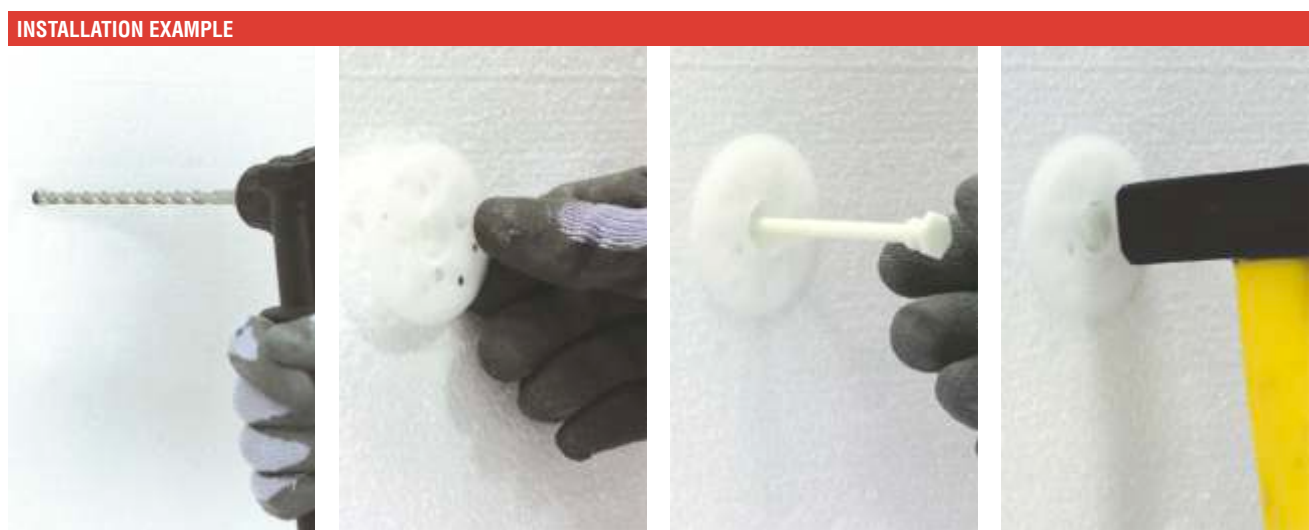




Fasteners for external thermal insulation systems - WALLS

ŁFN Ø10 HAMMER DRIVEN FASTENER WITH NYLON PIN AND EXTENDED EXPANSION ZONE

RESISTANCE				
Substrate	Description	Density [kg/dm³]	Standard	Characteristic pull-out resistance [kN] ŁFN Ø10 mm
	clay brick	≥1,60	EN 771-1	0,6
	perforated ceramic block	≥1,17	PN-B-12011:1997	0,5





ŁMX Ø8, Ø10 UNIVERSAL HAMMER DRIVEN FASTENER WITH METAL PIN



ŁMX Ø8

ETAG 014

A B C D E



ŁMX Ø10

ETAG 014

A B D E



TECHNICAL DATA	ŁMX Ø8	ŁMX Ø10
Drilled hole diameter	8 mm	10 mm
Anchorage depth cat. ABCD/E	35*/55** mm	50 mm
Drilled hole depth	45*/65** mm	60 mm
Washer diameter	60	60
European Technical Approval	ETA-09/0001	ETA-08/0172
Plug Material	PP	
Pin type	Carbon steel with nylon coated head	

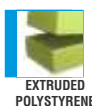
* - ETAG 014, use categories: A B C D,

** - ETAG 014, use category: E

INSULATION TYPE



POLYSTYRENE FOAM



EXTRUDED POLYSTYRENE



MINERAL WOOL



MINERAL WOOL LAMELLA

* with support washer TDX-140 / TDX-90



PRODUCT RANGE

Code	Diameter & length of the plug d ₁ x L ₁ [mm]	Insulation material thickness BUILDING		Pcs per pack
		NEW*	OLD**	
LMX-08095	8 x 95	30/50	10/-	200
LMX-08115	8 x 115	50/70	30/50	200
LMX-08135	8 x 135	70/90	50/70	200
LMX-08155	8 x 155	90/110	70/90	200
LMX-08175	8 x 175	110/130	90/110	200
LMX-08195	8 x 195	130/150	110/130	200
LMX-10070	10 x 70	10/-	-/-	200
LMX-10090	10 x 90	30/50	10/-	200
LMX-10110	10 x 110	50/70	30/50	200
LMX-10120	10 x 120	60/80	40/60	200
LMX-10140	10 x 140	80/100	60/80	200
LMX-10160	10 x 160	100/120	80/100	200
LMX-10180	10 x 180	120/140	100/120	200
LMX-10200	10 x 200	140/160	120/140	200
LMX-10220	10 x 220	160/180	140/160	100
LMX-10260	10 x 260	200/220	180/200	100

* - adhesive layer of 10 mm without / with insulation material cuts

** - adhesive layer of 10 mm + 20 mm of old plaster without / with insulation material cuts



Fasteners for external thermal insulation systems - WALLS

ŁMX Ø8,Ø10

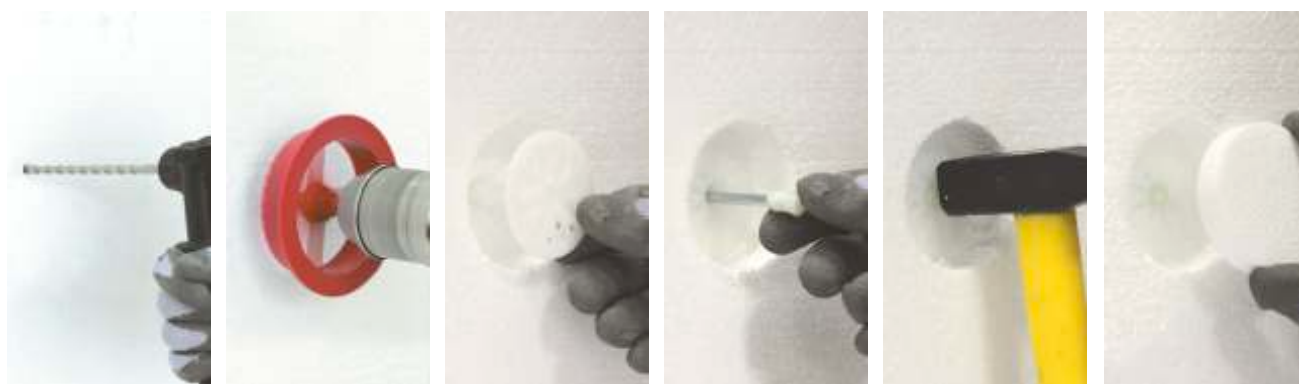
UNIVERSAL HAMMER DRIVEN FASTENER WITH METAL PIN

RESISTANCE

Substrate	Description	Density [kg/dm³]	Standard	Characteristic pull-out resistance [kN]* ŁMX Ø8mm, Ø10mm	
	concrete C12/15	≥1,80	EN 206-1	0,4	0,5
	concrete C16/20 ÷ C50/60	≥2,30	EN 206-1	0,6	0,75
	clay brick	≥1,74	EN 771-1	0,6	0,6
	chequer brick (typ K1, K2, K3)	≥1,13	EN 771-1	0,3	-
	lightweight aggregate blocks	≥1,2	EN 771-3	0,3	0,5
	autoclaved aerated concrete AAC7	≥0,6	EN 771-4	0,7	0,4

INSTALLATION OF THERMAL INSULATION FASTENERS WITH POLYSTYRENE DISCS

- greatly facilitates the process of surface preparation for applying the finish coat
- makes it possible to use 20 mm shorter fasteners when compared to installation without polystyrene discs
- eliminates thermal bridges





ŁTX Ø8, Ø10 UNIVERSAL HAMMER DRIVEN FASTENER WITH NYLON PIN



ŁTX Ø8

ETAG 014

A B C D E



ŁTX Ø10

ETAG 014

A B D E



TECHNICAL DATA	ŁTX Ø8	ŁTX Ø10
Drilled hole diameter	8 mm	10 mm
Anchorage depth cat. ABCD/E	35*/55 mm	50 mm
Drilled hole depth	45*/65 mm	60 mm
Washer diameter	60 mm	60 mm
European Technical Approval	ETA-09/0001	ETA-08/0172
Plug Material	PP	
Pin type	fiberglass reinforced polyamide	

* - ETAG 014, use categories: A B C D,

** - ETAG 014, use category: E

INSULATION TYPE



POLYSTYRENE
FOAM



EXTRUDED
POLYSTYRENE



PRODUCT RANGE

Code	Diameter & length of the plug d _c x L _i [mm]	Insulation material thickness BUILDING		Pcs per pack
		NEW*	OLD**	
LTX-08095	8 x 95	30/50	10/-	200
LTX-08115	8 x 115	50/70	30/50	200
LTX-08135	8 x 135	70/90	50/70	200
LTX-08155	8 x 155	90/110	70/90	200
LTX-08175	8 x 175	110/130	90/110	200
LTX-08195	8 x 195	130/150	110/130	200
LTX-10070	10 x 70	10/-	-/-	200
LTX-10090	10 x 90	30/50	10/-	200
LTX-10110	10 x 110	50/70	30/50	200
LTX-10120	10 x 120	60/80	40/60	200
LTX-10140	10 x 140	80/100	60/80	200
LTX-10160	10 x 160	100/120	80/100	200
LTX-10180	10 x 180	120/140	100/120	200
LTX-10200	10 x 200	140/160	120/140	200
LTX-10220	10 x 220	160/180	140/160	100
LTX-10260	10 x 260	200/220	180/200	100

* - adhesive layer of 10 mm without / with insulation material cuts

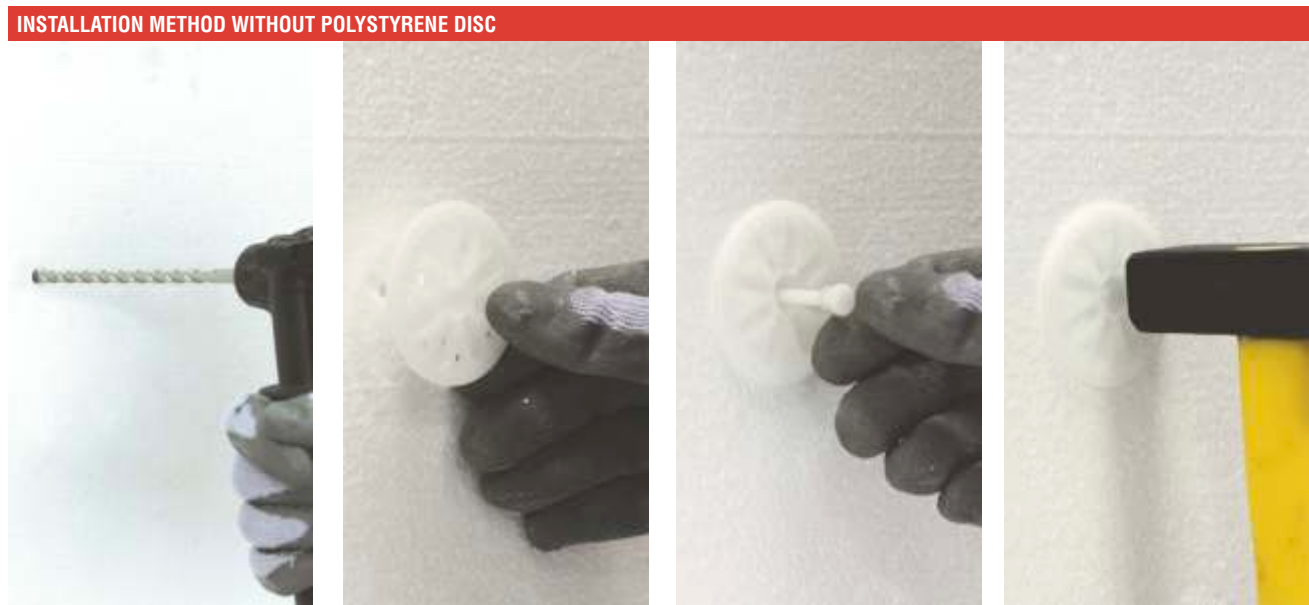
** - adhesive layer of 10 mm + 20 mm of old plaster without / with insulation material cuts



Fasteners for external thermal insulation systems - WALLS

ŁTX Ø8,Ø10 UNIVERSAL HAMMER DRIVEN FASTENER WITH NYLON PIN

RESISTANCE				
Substrate	Description	Density [kg/dm³]	Standard	Characteristic pull-out resistance [kN]* ŁTX Ø8mm, Ø10mm
	concrete C12/15	≥1,80	EN 206-1	0,4 0,6
	concrete C16/20 ÷ C50/60	≥2,30	EN 206-1	0,6 0,75
	clay brick	≥1,74	EN 771-1	0,5 0,6
	chequer brick	≥1,13	EN 771-1	0,3 -
	lightweight aggregate blocks	≥1,2	EN 771-3	0,3 0,5
	autoclaved aerated concrete AAC7	≥0,6	EN 771-4	0,6 0,3





TDX-140 SUPPORT WASHER FOR MINERAL WOOL



European Technical Approval
ETA-08/0172 /
ETA-09/0001



100% nylon

APPLICATION

Support washers are recommended for use with fixings in mineral wool lamella insulation boards (strands extending longitudinally). Greater hold-down area prevents fastener-caused damage to insulation material. Support washers are ideal for any mineral wool fixings.

TECHNICAL DATA

Washer diameter	140 mm
Plug types	WK THERM, ŁTX, ŁMX, ŁFN, ŁFM, ŁIT, ŁIM
Plug diameters	8 mm, 10mm
Material TDX140	nylon
Material TDXP140	polyethylene

INSULATION TYPE



MINERAL WOOL LAMELLA



MINERAL WOOL

SUBSTRATE

depends on the fixing

SIZE AND PACKAGING

Code and size	Material	Pcs per pack
TDX-140	nylon	200
TDX-P-140	polyethylene	200

TDX-90 SUPPORT WASHER FOR MINERAL WOOL

NEW!



European Technical Approval
ETA-11/0231 /
ETA-11/0232



APPLICATION

Support washers are recommended for use with fixings in mineral wool lamella insulation boards (strands extending longitudinally). Greater hold-down area prevents fastener-caused damage to insulation material. Support washers are ideal for any mineral wool fixings.

TECHNICAL DATA

Washer diameter	90 mm
Plug types	WK THERM, ŁTX, ŁMX, ŁFN, ŁFM, ŁIT, ŁIM
Plug diameters	8 mm, 10mm
Material TDX90	polyethylene

INSULATION TYPE



MINERAL WOOL LAMELLA



MINERAL WOOL

SUBSTRATE

depends on the fixing

SIZE AND PACKAGING

Code and size	Pcs per pack
TDX-090	200

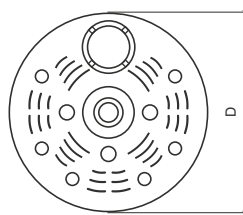


Fasteners for external thermal insulation systems - WALLS

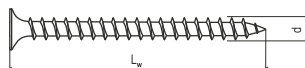
TD060 / TDP060

SPECIAL SCREWED-IN FASTENER WITH STEEL SCREW FOR FIXING MINERAL WOOL AND POLYSTYRENE FOAM IN TIMBER AND METAL SHEET

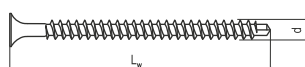
NEW!



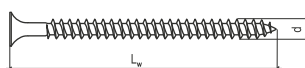
KDH



WSR



WDB



100% nylon

APPLICATION

It is used as a pressing component for mounting of insulation materials in joints with a fastener

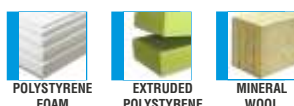
TECHNICAL DATA

Washer diameter D [mm]	60 mm
Screw types	KDH(KMH), WDB, WSR
Screw diameters d [mm]	5 mm; 6mm; 4,8mm
Anchorage depth h _{eff} [mm]	
steel sheet < 0,88 mm	20
steel sheet > 0,88 mm	20
timber / OSB / fiberboard	30 / 12,5 / 18
Technical Approval	AT-15-9228/2013
Material TD060 / TDP060	poliamid PA / polipropylen PE
Pin material	zinc plated steel

SUBSTRATE

- steel sheet - 0,88 mm thick
- steel sheet - 1,25 mm thick
- timber C 22
- OSB - 12,5mm thick
- OSB - 18 mm thick
- concrete C 20/25 PN-EN-206-1
- solid clay bricks PN-EN-771-1
- solid calcium silicate bricks PN-EN-771-2
- aerated concrete blocks PN-EN-771-4

INSULATION TYPE



PACKAGING

Code	Pcs per pack
TD-060	100
TDP-060	100

DID YOU KNOW...

Wkręt-met support washers have an integral head cover which makes installation easier!

POSSIBLE COMBINATION

Insulation material thickness	Washer	Steel sheet <0,88 mm	Steel sheet >0,88 mm	Timber, OSB
30	TD060, TDP060	WDB 4,8x50	WSR 4,8x50	KDH(T) 5x60
40	TD060, TDP060	WDB 4,8x60	WSR 4,8x60	KDH(T) 5x70
50	TD060, TDP060	WDB 4,8x70	WSR 4,8x70	KDH(T) 5x80
60	TD060, TDP060	WDB 4,8x80	WSR 4,8x80	KDH(T) 5x90
70	TD060, TDP060	WDB 4,8x90	WSR 4,8x90	KDH(T) 5x100
80	TD060, TDP060	WDB 4,8x100	WSR 4,8x100	KDH(T) 6x110
90	TD060, TDP060	WDB 4,8x120	WSR 4,8x120	KDH(T) 6x120
100	TD060, TDP060	WDB 4,8x120	WSR 4,8x120	KDH(T) 6x140
110	TD060, TDP060	WDB 4,8x140	WSR 4,8x140	KDH(T) 6x140
120	TD060, TDP060	WDB 4,8x140	WSR 4,8x140	KDH(T) 6x160
130	TD060, TDP060	WDB 4,8x160	WSR 4,8x160	KDH(T) 6x160
140	TD060, TDP060	WDB 4,8x160	WSR 4,8x160	KDH(T) 6x180
150	TD060, TDP060	WSR 4,8x200	WSR 4,8x200	KDH(T) 6x180
160	TD060, TDP060	WSR 4,8x200	WSR 4,8x200	KDH(T) 6x200
170	TD060, TDP060	WSR 4,8x200	WSR 4,8x200	KDH(T) 6x200
180	TD060, TDP060	WSR 4,8x200	WSR 4,8x200	KDH(T) 6x200
190	TD060, TDP060	WSR 4,8x200	WSR 4,8x200	-

RESISTANCE

Substrate	Substrate thick (mm)	Screw	Design resistance (kN)	Screw	Design resistance (kN)
Steel sheet	0,5	WDB	0,24	WSR	0,21
Steel sheet	0,75	WDB	0,4	WSR	0,55
Steel sheet	0,88	WDB	0,68	WSR	0,87
Steel sheet	1	-	-	WSR	1,03
Steel sheet	1,25	-	-	WSR	1,23
Timber C22	30	KDH 5,0	1,19	KDH 6,0	1,55
Timber C22	42	KDH 5,0	2,12	KDH 6,0	2,77
OSB	12,5	KDH 5,0	0,31	KDH 6,0	0,35
OSB	18	KDH 5,0	0,47	KDH 6,0	0,51
Fiberboard	12,5	KDH 5,0	0,32	KDH 6,0	0,22



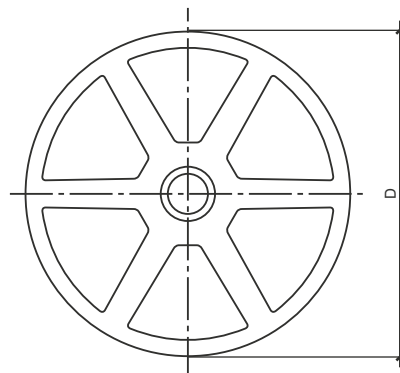
TD090 / TDP090

SPECIAL FASTENER WITH FRAME PLUG FOR FIXING MINERAL WOOL AND POLYSTYRENE FOAM IN CONCRETE

NEW!



100% **nylon** ***



SM / SMN



KPS-FAST S



APPLICATION

It is used as a pressing component for mounting of insulation materials in joints with a plug - KPS FAST S 10 and SM / SMN 10

TECHNICAL DATA

	KPS-FAST S	SM / SMN 10
Washer diameter D [mm]	90	
Plug diameter d [mm]	10	
Anchorage depth h_{an} [mm]	70	50
Drill depth h_1 [mm]	80	60
Technical Approval	AT-15-9228/2013	
Material TD090 / TDP090	polyamide PA / polypropylene PE	
Plug pin material	zinc plated steel	

SUBSTRATE

- concrete C20/25 PN-EN-206-1
- solid clay bricks PN-EN-771-1
- solid calcium silicate bricks PN-EN-771-2
- aerated concrete blocks 350 PN-EN-771-4
- aerated concrete blocks 650 PN-EN-771-4
- perforated porosited blocks Porotherm
- perforated ceramic blocks MAX

INSULATION TYPE



POLYSTYRENE
FOAM



EXTRUDED
POLYSTYRENE



MINERAL
WOOL

POSSIBLE COMBINATION

Insulation material thickness	Wascher	concrete, solid clay bricks, solid calcium silicate bricks	concrete, solid clay bricks, solid calcium silicate bricks, AAC, perforated ceramic blocks
30	TD090, TDP090	SM (SMN) 10x80	KPS-FAST 10x100 S
40	TD090, TDP090	SM (SMN) 10x100	KPS-FAST 10x120 S
50	TD090, TDP090	SM (SMN) 10x100	KPS-FAST 10x120 S
60	TD090, TDP090	SM (SMN) 10x120	KPS-FAST 10x140 S
70	TD090, TDP090	SM (SMN) 10x120	KPS-FAST 10x140 S
80	TD090, TDP090	SM (SMN) 10x140	KPS-FAST 10x160 S
90	TD090, TDP090	SM (SMN) 10x140	KPS-FAST 10x160 S
100	TD090, TDP090	SM (SMN) 10x160	KPS-FAST 10x180 S
110	TD090, TDP090	SM (SMN) 10x160	KPS-FAST 10x180 S
120	TD090, TDP090	SM (SMN) 10x180	KPS-FAST 10x200 S
130	TD090, TDP090	SM (SMN) 10x180	KPS-FAST 10x200 S
140	TD090, TDP090	SM (SMN) 10x200	KPS-FAST 10x230 S
150	TD090, TDP090	SM (SMN) 10x200	KPS-FAST 10x230 S
160	TD090, TDP090	SM (SMN) 10x220	KPS-FAST 10x230 S
170	TD090, TDP090	SM (SMN) 10x220	KPS-FAST 10x260 S
180	TD090, TDP090	-	KPS-FAST 10x260 S
190	TD090, TDP090	-	KPS-FAST 10x260 S
220	TD090, TDP090	-	KPS-FAST 10x300 S

RESISTANCE

Substrate	Plug	Design resistance (kN)	Plug	Design resistance (kN)
Concrete C 20/25	KPS FAST S 10	6,14	SM 10/SMN 10	0,89 / 1,08
Solid clay bricks	KPS FAST S 10	3,79	SM 10/SMN 10	0,45 / 1,34
Solid calcium silicate bricks	KPS FAST S 10	3,72	SM 10/SMN 10	0,45 / 1,34
AAC 350	KPS FAST S 10	0,18	SMN 10	-
AAC 650	KPS FAST S 10	0,86	SMN 10	0,44
Perforated porosited blocks Porotherm	KPS FAST S 10	0,81	SMN 10	-
Perforated ceramic blocks	KPS FAST S 10	0,48	SMN 10	-

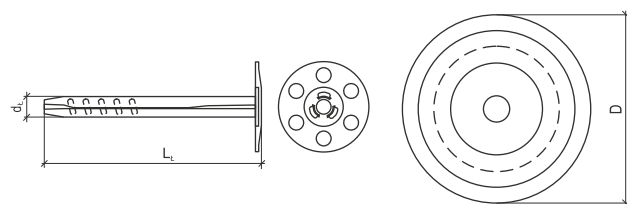
PACKAGING

Code	Pcs per pack
TD-090	100
TDP-090	100



Fasteners for external thermal insulation systems - WALLS

MLN NON-FLAMMABLE METAL FIXINGS



RESISTANCE

Substrate	Standard	Characteristic pull-out resistance [kN]
concrete C20/25-C50/60	EN 206-1	0,95
full ceramic brick	EN 771-1	0,85
silica brick, class 15	EN 771-2	0,95
aerated concrete grade 5, density 600	EN 771-4	0,5

SUBSTRATE



INSULATION TYPE



TECHNICAL DATA

Drilled hole diameter	8 mm
Anchorage depth	50 mm
Drilled hole depth	60 mm
Washer diameter	70 mm
Technical Approval	AT-15-7960/2009
Material	zinc plated steel

PRODUCT RANGE

Code	Diameter & length of the plug d, x L [mm]	Insulation material thickness BUILDING		Pcs per pack
		NEW*	OLD**	
MLN-08080	8 x 80	20	-	50
MLN-08110	8 x 110	50	30	50
MLN-08140	8 x 140	80	60	50
MLN-08170	8 x 170	110	90	50
MLN-08200	8 x 200	140	120	50

* - adhesive layer of 10 mm

** - adhesive layer of 10 mm + 20 mm of old plaster



Wk-FT

NYLON CUTTER FOR INSULATION MATERIAL

NEW!



APPLICATION

Tool for cutting polystyrene discs in insulation material

TECHNICAL DATA

Code	Pcs per pack
Wk-FT	1

KS

POLYSTYRENE DISC

NEW!



APPLICATION

Installation of thermal insulation fasteners with polystyrene discs

- greatly facilitates the process of surface preparation for applying the finish coat
- makes it possible to use 20 mm shorter fasteners when compared to installation without polystyrene discs
- eliminates thermal bridges

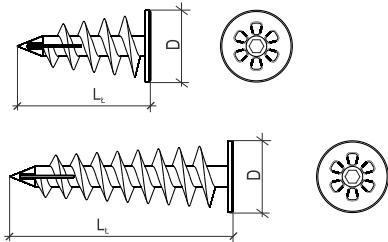
TECHNICAL DATA

Code	Pcs per pack
KS	100

Wk-DS

HELICAL FASTENER

NEW!



APPLICATION

Fixing lightweight components (up to 5 kg/fastener) to polystyrene insulation walls.

TECHNICAL DATA

Code	Plug length L ₁	Washer diameter D	Screw diameter [mm]	Pcs per pack
Wk-DS-50	50	28	4.5	10
Wk-DS-85	85	28	4.5	10



Fasteners for external thermal insulation systems - WALLS

KST-750 POLYSTYRENE ADHESIVE THERMO STYRO FIX



Technical Approval
AT-15-8626/2011

can size: 750 ml



APPLICATION

THERMO STYRO FIX is a polyurethane adhesive designed for fixing of expanded polystyrene boards with the use of Wkręt-Met fasteners in external wall insulation systems and for bonding polystyrene boards including those with roofing felt in flat roofing insulation systems.

Suitable for bonding polystyrene ceiling tiles, wall panels and for sealing thermal insulation joints. Excellent for bonds between thermal insulation and building structure without using fasteners. The only adhesive in the market that bonds with an adhesive layer of 3 to 15 mm thick! Excellent adhesive properties with most substrates: concrete, bricks and ceramic blocks, new plaster, wood, metal, corrugated metal roofing sheets as well as traditional and mineral felt roofing and PVC materials.

- bonds insulating material to substrate
- the only adhesive in the market that bonds with an adhesive layer of 3 to 15 mm thick!
- seals thermal insulation joints
- prevents thermal bridges in connections between thermal insulation materials

TECHNICAL DATA

Code	Can size	Quantity per box
KST-750	750 ml	12

SWS REINFORCING FIBREGLASS MESH



Technical Approval
AT-15-9289/2014



APPLICATION

Protects insulation boards against mechanical damage. Together with mortar forms a solid base coat for plaster. Offers protection against thermal stress on masonry resulting from thermal interaction (repetitive heating-cooling) and prevents cracking.

- High mechanical strength
- Good elasticity
- Regular and strong weave
- Very good grip
- Provides high impact resistance of the insulation system

TECHNICAL DATA

Code	Colour	Grammage	Roll width [cm]	Roll length [m]	No. of m ² in 1 roll
SWS-145	White	145g/m ²	110	50	55
SWS-145Z	Yellow	145g/m ²	110	50	55



DW SPACER AND LEVELLING WASHERS

APPLICATION

Used to level surface irregularities when fixing skirting boards. Can also be used as a spacer washer.

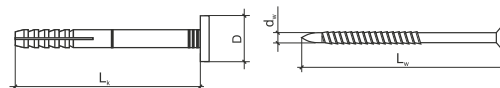
PACKAGING

Code	Thickness [mm]	Colour	Pcs per pack
DW-02	2	brown	50
DW-03	3	red	50
DW-04	4	green	50
DW-05	5	yellow	50
DW-08	8	blue	50
DW-10	10	black	50
DW-15	15	white	50



SMKC HAMMER DRIVE FIXING WITH CYLINDRICAL COLLAR

 Technical Approval
AT-15-8834/2012



APPLICATION

e.g. for fixing of skirting boards

SUBSTRATE



CONCRETE



CLAY BRICK



NATURAL
STONE



calcium silicate brick

RESISTANCE

Code and size	Design resistance in concrete C20/25 [kN]	Design resistance in concrete C12/15 [kN]	Design resistance in solid brick [kN]
SMKC - 6	0,35	0,24	0,24
SMKC - 8	0,55	0,38	0,38

Normal weight concrete, strength class not lower than C20/25 according to PN-EN 206/1:2003 in compression zone; Normal weight concrete, strength class C12/15 according to PN-EN 206/1:2003 in compression zone; Solid ceramic brick, strength class not lower than 10 according to PN-B-12050:1996

TECHNICAL DATA

Plug	polipropylene
Nail screw	steel
Corrosion protection	zinc chromate plating

INSTALLATION DATA

Code and size	Minimum spacing L_{ss} (mm)	Minimum edge distance L_e (mm)	Min. member thickness g_s (mm)
SMKC-6	120	60	60
SMKC-8	160	80	80

PARAMETRY TECHNICZNE

Code and size	Drill hole diam. d_o [mm]	Plug length L_s [mm]	Collar diam. D [mm]	Screw diam. and length	Min. depth of drilled hole $h_{o\ min}$ [mm]	Min. anchorage depth h_{min} [mm]	Max. fixture thickness h_o [mm]	Pcs per pack
SMKC-06040	6	40	12	3,9 x 45	40	30	10	200
SMKC-06060	6	60	12	3,9 x 65	40	30	30	100
SMKC-08080	8	80	14	4,9 x 85	50	40	40	100

LLC STOP BEAD CONNECTION

APPLICATION

Necessary element for fixing of skirting boards.

TECHNICAL DATA

Code	Pcs per pack
LLC	50



DID YOU KNOW THAT?

Wkręt-met - WKREĆ-MET is the only manufacturer in Europe
to hold 8 EUROPEAN TECHNICAL APPROVALS
covering anchors
for thermal insulation systems (walls)




Wkręt-met®

TECHNIKI ZAMOCOWAŃ

KLIMAS

Klimas Wkręt-met sp. z o.o.
ul. Wincentego Witosa 135/137
Kuźnica Kiedrzyńska
42-233 Mykanów, POLAND

tel. +48 34 377 71 00
fax +48 34 328 01 73

UK PARTNER
APTUS FASTENER SYSTEMS LTD
SALTERWOOD DRIVE
DENBY BUSINESS PARK
DENBY
DERBYSHIRE
DE5 8JY
TEL: 01773 740410
EMAIL: sales@aptusfasteners.co.uk



APTUS
FASTENER SYSTEMS
Innovations in fastenings and fixings



www.wkret-met.com

