Smartherm
BUILD IT SMARTER

Wkręt-met®
KLIMAS

INSULATION ANCHOR ECO DRIVE FOR EPS

USAGE: Eco-Drive is an innovative telescopic dowel with a screw-in metal nail suitable for all base materials. It is recommended for use with the following insulation materials: EPS.

Anchor	Diameter (mm)	Lenght (mm)	Packaging (tk)
ECODRIVE - 08150	8	150	100
ECODRIVE - 08170	8	170	100
ECODRIVE - 08190	8	190	100
ECODRIVE - 0821O	8	210	100
ECODRIVE - 08230	8	230	100
ECODRIVE - 08250	8	250	100
ECODRIVE - 08270	8	270	100
ECODRIVE - 08290	8	290	100
ECODRIVE - 08310	8	310	100
ECODRIVE - 08330	8	330	100
ECODRIVE - 08350	8	350	100
ECODRIVE - 08370	8	370	100
ECODRIVE - 08390	8	390	100
ECODRIVE - 08410	8	410	100
ECODRIVE - 08430	8	430	100

BASE MATERIAL

A

CONCRETE, COLUMBIA KIVI

B

BRICK, SILICATE BRICK

C

HONEYCOMB BRICK

D

FIBO

E

ASH PANEL, BAUROC, AERATED CONCRETE

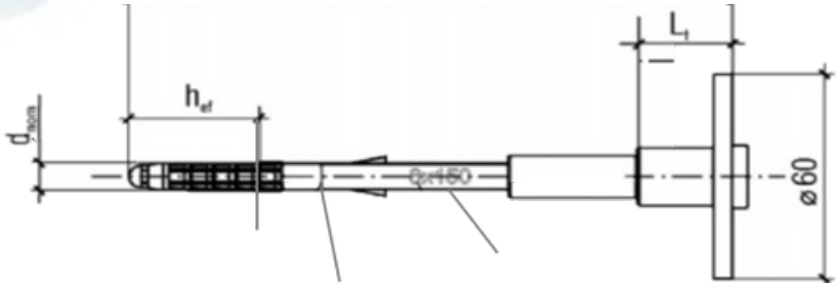
Parameter	Unit	Value
Anchor diameter	dk (mm)	8
Anchor plate diameter	Dk (mm)	60
Anchoring depth	hef (mm)	35/55
Drilling depth	ho (mm)	45/65
Thermal conductivity	X (W/K)	0,002
Anchor plate rigidity	S (KN/mm)	0,60
Base material	-	A B C D E
Anchor material	-	PA
Nail material	-	Carbon steel, glass-filled nylon coated head
Technical conformity	-	ETA - 13/0107

PRODUCT FEATURES AND ADVANTAGES

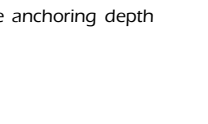
TThe screw-in telescopic dowel is particularly advisable for fragile materials, where it is essential to avoid damaging the base surface with a hammer. Eco-Drive dowel ensures optimal strength parameters, and its installation is convenient and fast. The suitable bit for installing the dowel is TORX 40.

Its telescopic design with a self-countersinking flange makes it the most modern fastener for covered installation points. Using this dowel helps to reduce the amount of EPS waste typically generated during drilling.

The dowel is supplied in an assembled form, eliminating the need for separate assembly. The package also includes polystyrene tablets necessary to cover the installation points after the dowel's installation.



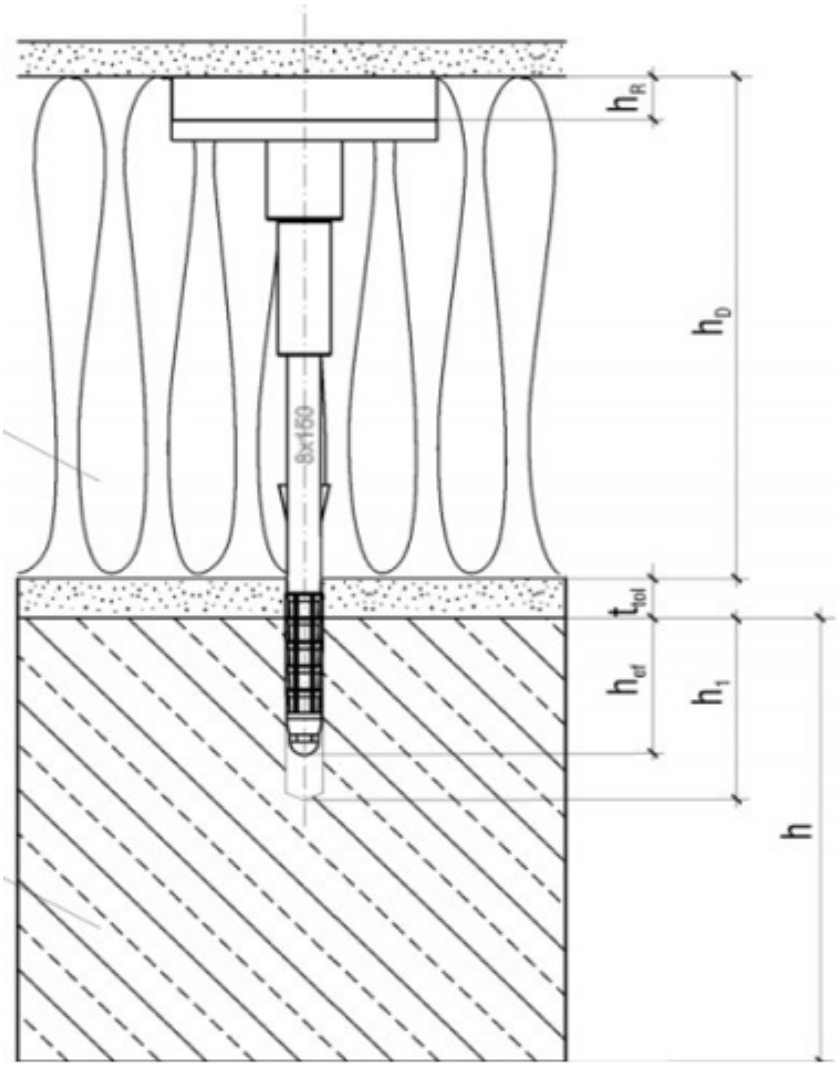
Effective anchoring depth range



Metal Nail Markings: Identification feature (S); Base surface categories (D E)

Anchor Markings: Identification feature (Wkret-Met); Anchor (WKTHERM); Anchor diameter (8 x Lx); Base surface categories (A B C)

		New buildings		Old buildings	
		ttol adhesive mixture layer 8 mm		ttol adhesive mixture layer 8 mm + old plaster 20mm	
Code	dk x Lk [mm]	Category A B C D	Category E	Category A B C D	Packing
ECODRIVE - 08150	8 x 150	80	-	40/-	100
ECODRIVE - 08170	8 x 170	100	80	60/20	100
ECODRIVE - 08190	8 x 190	120	100	80/40	100
ECODRIVE - 08210	8 x 210	140	120	100/60	100
ECODRIVE - 08230	8 x 230	160	140	120/80	100
ECODRIVE - 08250	8 x 250	180	160	140/100	100
ECODRIVE - 08270	8 x 270	200	180	160/120	100
ECODRIVE - 08290	8 x 290	220	200	180/140	100
ECODRIVE - 08310	8 x 310	240	220	200/160	100
ECODRIVE - 08330	8 x 330	260	240	220/180	100
ECODRIVE - 08350	8 x 350	280	260	240/200	100
ECODRIVE - 08370	8 x 370	300	280		100
ECODRIVE - 08390	8 x 390	320	300		100
ECODRIVE - 08410	8 x 410	340	320		100
ECODRIVE - 08430	8 x 430	360	340		100



Anchor installation

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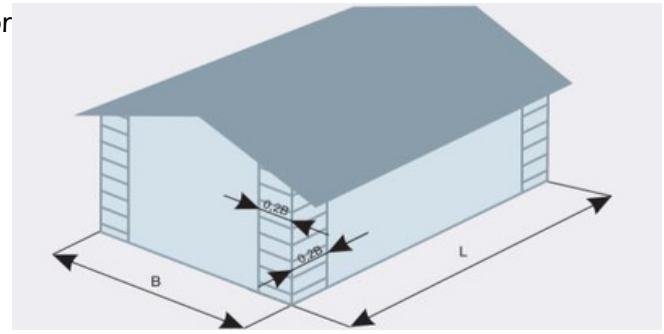
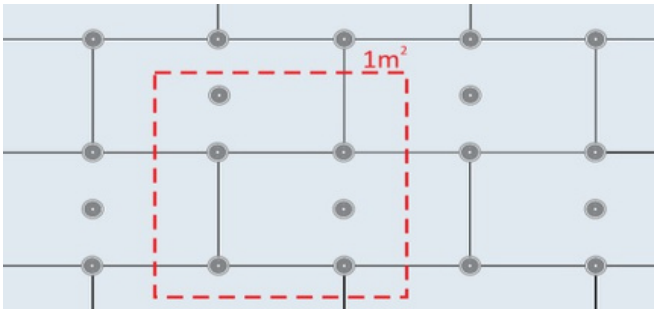
INSULATION ANCHOR WKTHERM SMART INSTALLATION GUIDE

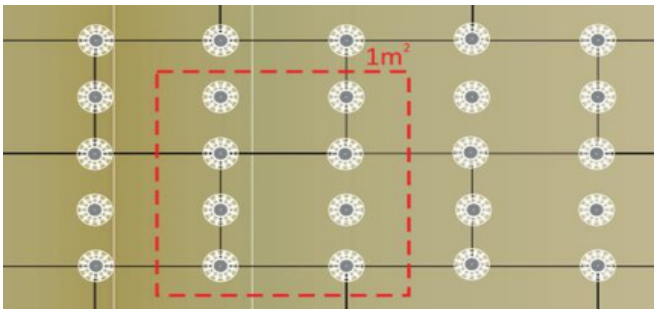
Drill a hole into the base surface, with a diameter and depth in accordance with product specifications. Ensure that the drilling depth corresponds to the anchor length. Clean the hole of drilling residues. The anchors are to be hammered or screwed into the pre-drilled holes. Anchors should be installed such that the anchor plate is flush with the insulation material, with no protrusion. It is advisable to check for surface flatness after hammering/screwing in the anchors. In the case of too fresh adhesive, there's a risk that the anchor might turn a so far flat surface into a wavy one. We highly recommend using a router for inserting the anchors and covering the anchor head, either with a polystyrene or mineral wool cor thermal bridging.



Correct installation of anchors is very important from the perspective of anchor performance. The location and installation of anchors should be determined on a project-specific basis. The consumption of anchors in different parts of the facade depends on:

- Wind load
- Building height
- Type of insulation material
- Base surface at least six anchors should be installed per square meter.
- It is advisable to use 20% more anchors in the corners of the building.
- The width of the corner zone is one fifth of the lenght of the shorter wall of the building.





CENTRAL ZONE	CORNER ZONE
6tk/m2	6tk/m2
6tk/m2	8tk/m2
6tk/m2	8tk/m2
8tk/m2	10tk/m2
10tk/m2	12tk/m2
12tk/m2	14tk/m2
Insulation material:	
Polystyrene	Mineral wool

ETA
Conforms to ETAG 004

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