

INSULATION ANCHOR WKTHERM SMART

USAGE: WKTHERM-S is a universal screw-in anchor for all types of base materials. Suitable for use with the following insulation materials: EPS, XPS, mineral wool.



Anchor	Diameter (mm)	Lenght (mm)	Packaging (tk)
WK THERM - S08095	8	95	200
WK THERM - S08115	8	115	200
WK THERM - S08135	8	135	200
WK THERM - S08155	8	155	200
WK THERM - S08175	8	175	200
WK THERM - S08195	8	195	200
WK THERM - S08215	8	215	100
WK THERM - S08235	8	235	100
WK THERM - S08255	8	255	100
WK THERM - S08275	8	275	100
WK THERM - S08295	8	295	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)	25/65
Drilling depth	ho (mm)	35/75
Thermal conductivity	λ (W/K)	0,002
Anchor plate rigidity	S (KN/mm)	0,60
Base material	-	A B C D E
Anchor material	-	PE
Nail material	-	Carbon steel, glass-filled nylon coated head
Technical conformity	-	ETA - 13/0724

PRODUCT FEATURES AND ADVANTAGES



The head of the metal nail is covered with a plastic seal, which ensures a very low point thermal conductivity (0,002W/K) for the anchor, and protects the nail from corrosion. Low point thermal conductivity increases the overall barrier thermal transmission coefficient.



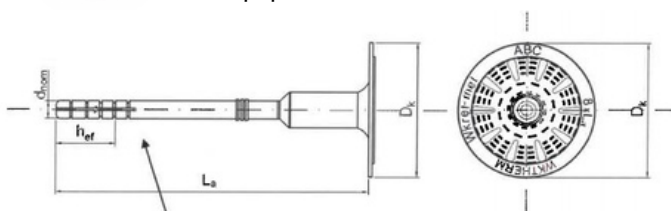
The screw-in anchor is easy to install. It is also suitable for use in brittle materials, where damage to the material with a hammer must be avoided. The screw-in nail ensures optimal strength parameters and facilitates the anchor's installation flush with the insulation material. The suitable bit for anchor installation is TORX 40.



The anchor plate has a textured imprint, which increases the bonding ability of the reinforcing mix. The greater rigidity of the anchor plate ensures better hold of the insulation material.

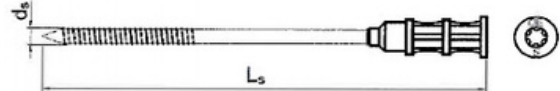


Short fastening (diameter 8 mm) ensures maximum anchor strength with minimal labor and equipment cost.



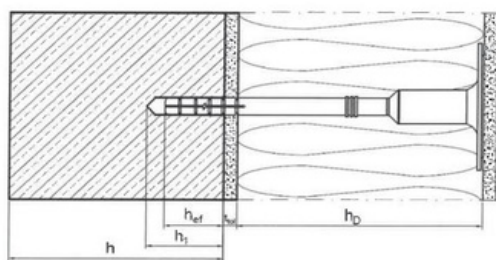
Effective anchoring depth range

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

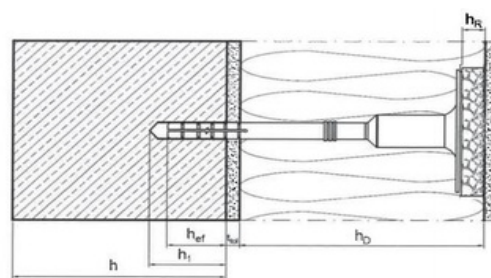


Metal Nail Markings: Identification feature (S); Base surface categories (D E)

		New buildings		Old buildings	
		ttol adhesive mixture layer 10mm		ttol adhesive mixture layer 10mm + old plaster 20mm	
Code	dk x Lk [mm]	Flush installation	Recessed installation	Flush installation	Recessed installation
WK THERM - S08095	8 x 95	60/20	80/40	40/-	60/20
WK THERM - S08115	8 x 115	80/40	100/60	60/20	80/40
WK THERM - S08135	8 x 135	100/60	120/80	80/40	100/60
WK THERM - S08155	8 x 155	120/80	140/100	100/60	120/80
WK THERM - S08175	8 x 175	140/100	160/120	120/80	140/100
WK THERM - S08195	8 x 195	160/120	180/140	140/100	160/120
WK THERM - S08215	8 x 215	180/140	200/160	160/120	180/140
WK THERM - S08235	8 x 235	200/160	220/180	180/140	200/160
WK THERM - S08255	8 x 255	220/180	240/200	200/160	220/180
WK THERM - S08275	8 x 275	240/200	260/220	220/180	240/200
WK THERM - S08295	8 x 295	260/220	280/240	240/200	260/220



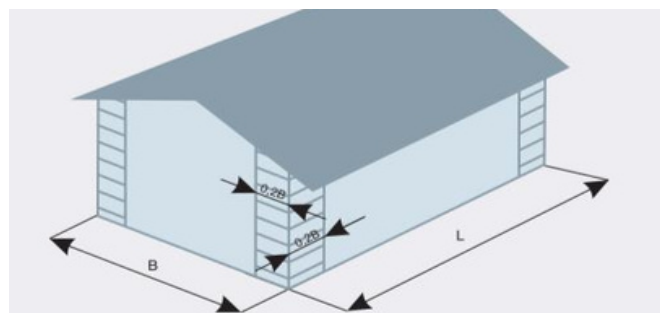
Flush installation



Recessed installation

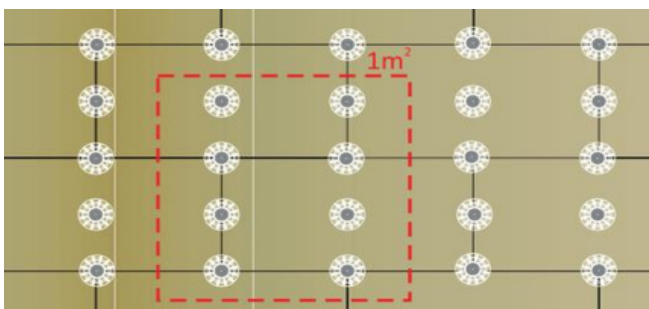
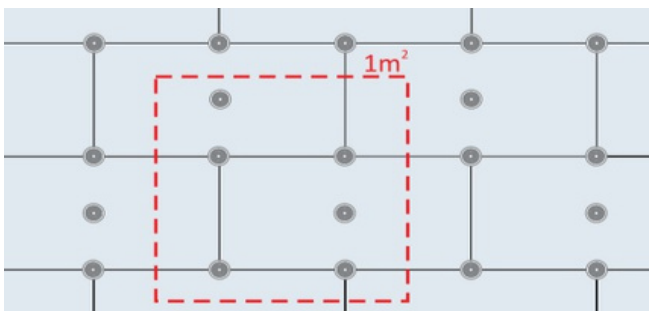
INSULATION ANCHOR WK THERM SMART INSTALLATION GUIDE

Choose the right length of dowel according to the substrate, the thickness of the adhesive layer and the insulation. Drill a hole in the substrate with a diameter of 8mm and a minimum depth of the dowel fixing +10mm (minimum fixing for ABCD substrate 25mm, for E substrate 65mm). Ensure that the drilling depth is in accordance with the length of the dowel. Clean the hole of drilling debris. The dowels are screwed into the pre-drilled holes. The dowels must be positioned so that the dowel plate is flush with the insulation material with a tolerance of ± 1 mm. Do not commence plugging until the drying time of the adhesive, as specified by the adhesive manufacturer, has elapsed. When installing the dowels, we strongly recommend that the dowel head is milled into the dowel and covered, either with a polystyrene or mineral wool cap. This will also reduce the risk of frost bridge formation.



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 length of the shorter wall of the building.



CENTRAL ZONE	CORNER ZONE
6tk/m ²	6tk/m ²
6tk/m ²	8tk/m ²
6tk/m ²	8tk/m ²
8tk/m ²	10tk/m ²
10tk/m ²	12tk/m ²
12tk/m ²	14tk/m ²
Insulation material:	
Polystyrene	Mineral wool