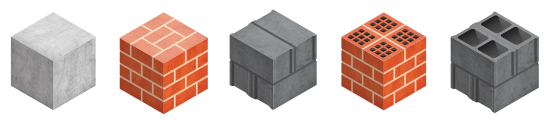


# UNIVERSAL SCREW PLUG FOR ETICS

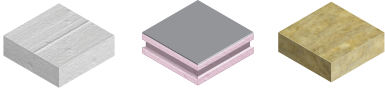
**FI-GECKO**



CONCRETE  
SOLID BRICK  
SOLID CONCRETE BLOCK  
HOLLOW BRICK  
HOLLOW CONCRETE BLOCK



POLYSTYRENE EPS  
FOAM PANELS PU / PUR  
MINERAL INSULATION



## FEATURES

**Application:**

- For insulating or ETICS system 100-400mm
- Invisible inside the insulation

**Material:**

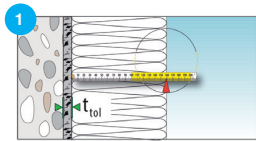
- Helix plug : polyamide PA 6.6
- Plug Ø8 : polypropylene PP
- Screw : zinc-plated steel

**• 1 plug for all purposes:**

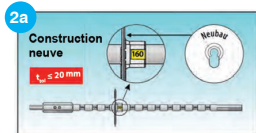
- One plug for all thickness insulation for 100mm to 400mm
- Fits for all types of insulation:
  - Soft insulation: PSE20, PU, phenolic resin, ...
  - Rigid insulation: mineral wool, PSE15, ...
- Approved for all material types (A, B, C, D, E) : concrete, soft and hollow brick, aerated concrete...
- Adapts easily to various thickness of glue (insulating/support) and roughcast (insulating surface)

**• Does not create thermal bridge ( $\xi_i = 0,00 \text{ W/K}$ )**

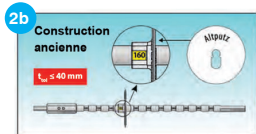
## INSTALLATION



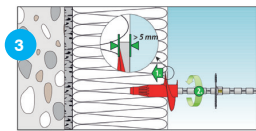
1 Define insulating thickness (100-400mm)



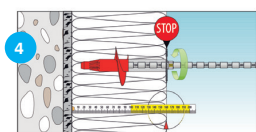
2a Position the washer by clipping on the setting tool the number displayed corresponds to the thickness of the insulating. The orientation of the washer depends on the type of construction, insulating support, and compensation tolerance  $t_{tol}$  (new building compensation=glue layer:  $t_{tol} < 20\text{mm}$ , old render = old roughcast:  $t_{tol} < 40\text{mm}$ ).



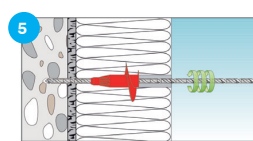
2b The inscriptions «new building» or «old render» written on the washer must be visible.



3 Install the red plug/propeller on the hexagonal SW14 bit of the setting tool

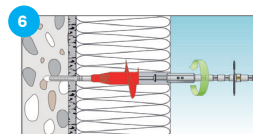


4 Screw the propeller plug in the insulating until the washer of the setting tool is on the surface of the insulating.



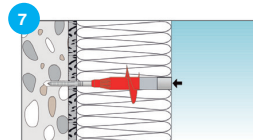
5 Drill with a 8mm drill bit through the propeller plug in the support material, at depth  $h_1$  according to the material typ ( $h_1 = h_{ef} + 10\text{mm}$ ).

The total hole depth (including the insulating) is: insulating thickness + 80mm.



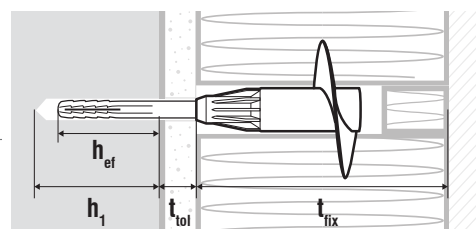
6 Reduce torque and speed of the screwdriver. Install the grey nylon plug+screw on the TX30 tip of the setting tool.

Install the plug+screw through the propeller plug. You should feel the expansion of the plug.



7 And finally fill the hole in the insulating with a polystyrene cap FI-GECKO-CAP or with PU foam.

Reference	L	t <sub>fix</sub>	Ø Drilling	h <sub>ef</sub>	h <sub>1</sub>	t <sub>tol</sub>
	Length mm	Thickness to fix mm	mm	Anchorage depth mm	Drill depth mm	Compensation tolerance mm
<b>FI-GECKO</b>	80	100 to 400	8	30 à 50 According to the support	40 à 60 According to the support	≤ 20 New building ≤ 40 Old render



## RECOMMENDED LOADS

Cat.	Material Type	Drilling mode	h <sub>ef</sub> Anchorage depth mm	Nk Characteristic load daN	Nd Load calculation daN	Nrec Service load daN	
A	Concrete C12/15		30	150	50	36	*Minimum resistance to the compression and gross density (kg/dm3) see ETA 15/0305
A	Concrete C16/20 - C50/60		30	150	50	36	
B	Sand-lime solid brick, KS	Hammer drill	30	150	50	36	**hef [mm] = Effective anchorage depth in the carrier without t tol
B	Building brick, Mz		30	150	50	36	
B	Solid aerated concrete cinderblock, Vbl 2		30	75	25	18	
B	Solid aerated concrete cinderblock, Vbl 4		30	120	40	29	t <sub>tol</sub> tolerance compensation (glue layer and old roughcast)
C	Aerated brick high up, Hlz		30	90	30	21	NRk in [kN] = Characteristic aptitude of tensile resistance according to ETA-15/0305
C	Aerated brick, KSL		30	150	50	36	
C	Hollow cellular concrete block, 4k Hbl	Driver drill	30	75	25	18	Nrd = NRk / (γM * γF)
C	Hollow cellular concrete block, 1k Hbl		30	90	30	21	
C	Aerated brick high up, Hlz		30	50,1	16,7	12	γM = Partial security coefficient for the anchor according to ETAG 014 (γM = 2.0)
D	Cinderblock of porous aggregates LB, LAC 4	Hammer drill	30	30	10	7	γF = Partial security coefficient for wind loads (γF = 1.5)
D	Cinderblock of porous aggregates LB, LAC 6		30	50,1	16,7	12	
E	Porous concrete, PP4-05	Driver drill	30	30	10	7	
D	Cinderblock of porous aggregates LB, LAC 4	Hammer drill	50	90	30	21	
D	Cinderblock of porous aggregates LB, LAC 6	Driver drill	50	120	40	29	
E	Porous concrete, PP4-05		50	75	25	18	

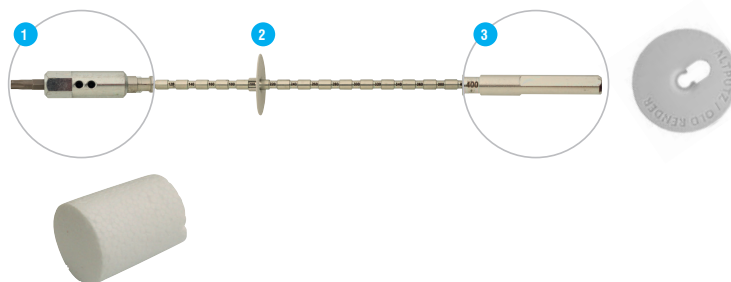
## COMPLEMENTARY PRODUCTS

### SETTING TOOL FOR FI-GECKO PLUG:

Reference : FI-GECKO-TOOL

- Enables setting of the proppeler plug (hexagonal part) and the nylon plug (TORX TX30 part)
- Marking of the anchoring depth according to the thickness of the insulating and the type of construction (new or old)
- Total length of the tool = 440 mm.

- 1 Standard removable TX30 bit
- 2 Easy setting of the anchorage depth
- 3 Standard fitting on the screwdriver



### POLYSTYRENE CAP:

Reference : FI-GECKO-CAP

Aesthetic finish of the hole in the polystyrene insulating.

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