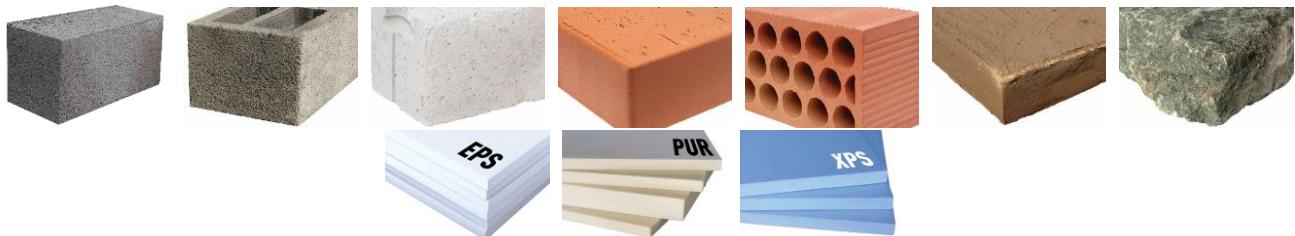
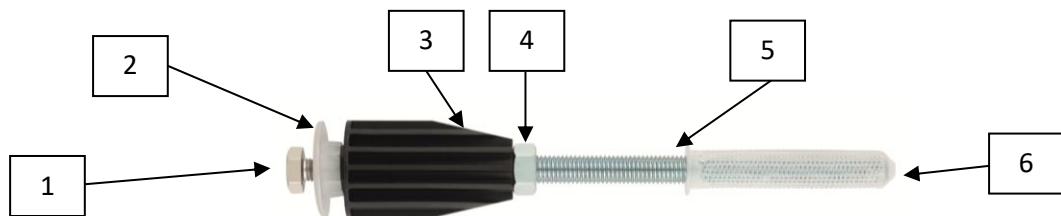


**TE-P****CHARACTERISTICS AND APPLICATIONS**

- Plugs for fixing thermal insulation systems from the outside.
- The insulating cone is made of polyamide reinforced with fiberglass.
- Acts as an internal barrier which stops heat conduction, while preventing even condensation and dripping within masonry.
- It is perfect for fixing air conditioning units that needs to be installed in buildings with SATE.
- Suitable for different kinds of materials, such as concrete, solid brick walls and hollow brick walls.
- It is required the use of chemical fixative from INDEX catalogue.
- It is provided with a nylon sleeve designed for being used in masonry to ensure the expansion of the chemical fixing in all directions, regardless the internal geometry. Also, it prevents the rotation and extraction.
- It is provided with a threaded rod of M12 x 200 mm made of zinc coated steel and hexagonal bolt of M10 x 25 mm, made of stainless steel.

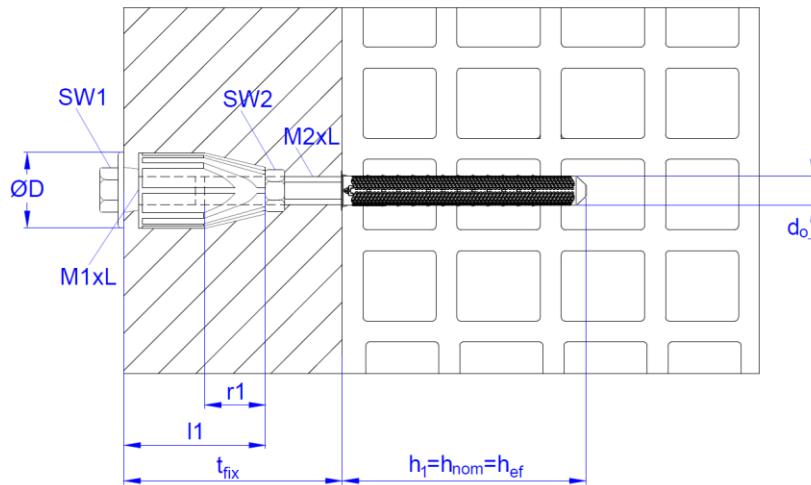
BASE MATERIALS**APPLICATION EXAMPLES**

1. RANGE



CODE	ITEM	COMPONENT	MATERIAL/ COVERING
TE-P	1	Clamping bolt M10 x 25 mm	 Stainless steel A2
	2	Covering washer	 Polypropylene (PP)
	3	Thermal insulating cone	 Polyamide nylon reinforced with fiberglass
	4	Nut DIN 934	 Carbon steel zinc-plated $\geq 5\mu\text{m}$
	5	Threaded rod M12 x 200 mm	 Carbon steel zinc-plated $\geq 5\mu\text{m}$
	6	Nylon sleeve $\varnothing 16 \times 100$ mm	 Polypropylene (PP)

2. INSTALLATION DATA

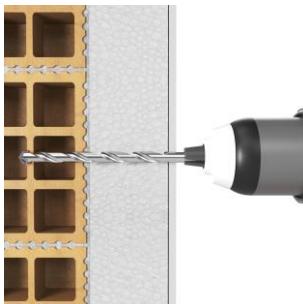


Datos de Instalación

CODIGO	h_1	d_0	t_{fix}	$M_1 \times L$	SW_1	$M_2 \times L$	SW_2	$\varnothing D$	l_1	r_1
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
TEP12200	100	16	80 - 160	M10 x 25	17	M12 x 200	19	40	76	45

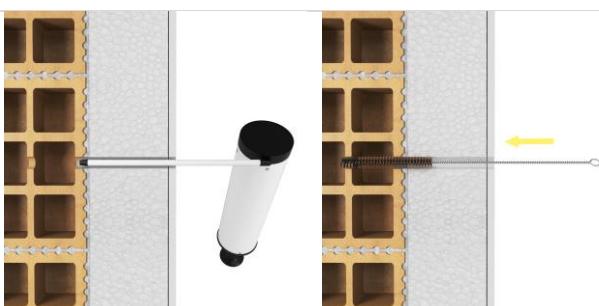
3. PRODUCT INSTALLATION

3.1 TEP IN SOLID AND HOLLOW MATERIALS



Drill a hole with the diameter and the depth specified in the previous table. Use the drill in hammer mode if the material is solid. In case of hollow materials, do not use hammer mode, avoiding damage in the interior of the base material. Reduce the speed of the drill when it is suspected that the drill bit is close to coming out from the interior of the base material.

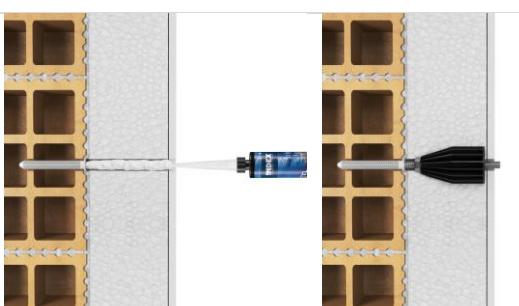
If the insulating material has a coating, it may be necessary to drill a hole beforehand in order to fully insert the cone ($\varnothing 40$ mm x 80 mm)



Clean the hole removing the dust and fragments. Use an air pump and a brush.

Cut the rod according to the thickness of the insulation, the dimensions of the cone, and the screen or drill bit.

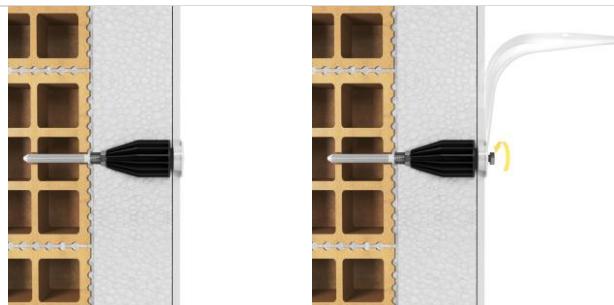
Assemble and check the installation depth.



Insert the sleeve if the material is hollow.

Insert the nozzle until the bottom of the hole and apply the mortar; remove the nozzle slowly, ensuring that there are no air bubbles. Fill the sleeve completely.

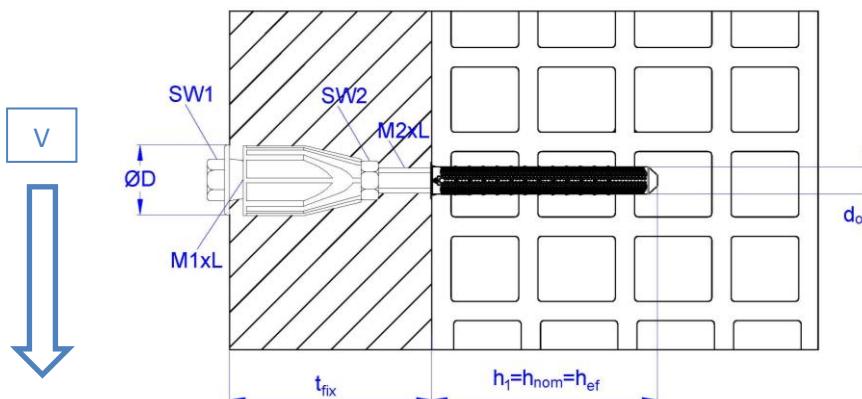
Screw the assembly (rod+nut+cone) into the hole rotating slowly by hand, until the bottom of the hole, ensuring the mortar covers the thread.



Once the mortar has cured, place the waterproof plug and thread the clamping bolt it through the fixture.

4. MAXIMUM RECOMMENDED LOAD

Maximum recommended load in shear for the indicated materials (uncracked concrete, solid and hollow masonry) for an isolated anchor (without the effects of edge distance or anchor spacing) is indicated in the following table (1kN ≈ 100kg):



CODE	SATE thickness [mm]	MAXIMUM RECOMMENDED LOAD V_{rec}	
		[kN]	[kN]
TE-P	80	0,32	0,32
	100	0,32	0,32
	120	0,25	0,25
	140	0,18	0,18
	160	0,12	0,12