

### VERSIONS

- Zinc-plated steel
- Stainless steel

### CERTIFICATES



### BUILDING MATERIALS

- Concrete, cracked and non-cracked
- Vertically perforated brick
- Hollow blocks made from lightweight concrete
- Perforated sand-lime brick
- Solid sand-lime brick
- Solid brick
- Aerated concrete

### ADVANTAGES

- When combined with the injection mortars FIS EM, FIS V, FIS SB and FIS GREEN, the stand-off installation is approved for high loads in a range of materials. This allows for a secure fixing.
- Usable lengths of 62 to 290 mm can be covered with just one Thermax.
- The plastic cone creates a thermal barrier between the fixture and the inner fixture, and offers an energy-optimised fixing.
- The glass-fibre-reinforced plastic cone cuts its own way through the ETICS with a positive fit, and allows for a simple, fast and adjustable installation without the need for any special tools.

### APPLICATIONS

- Awnings
- Canopies
- French balcony railings
- Air conditioning units
- Satellite dishes

### FUNCTIONING

- The Thermax 12 and 16 systems are suitable for pre-positioned installation.
- The self-tapping, glass-fibre-reinforced cone cuts its own way through the plaster into the insulation during installation.
- The anti-cold cone uses a thermal barrier to minimise heat losses.
- In the case of resistant plaster (e.g. thick cement plaster), it is recommended that the Thermax cutting blade included is used for grinding out the plaster.
- The sealing of the annular gap with the adhesive and sealant KD seals the façade at plaster level.

### FOR USE WITH



FIS EM mortar



FIS V mortar

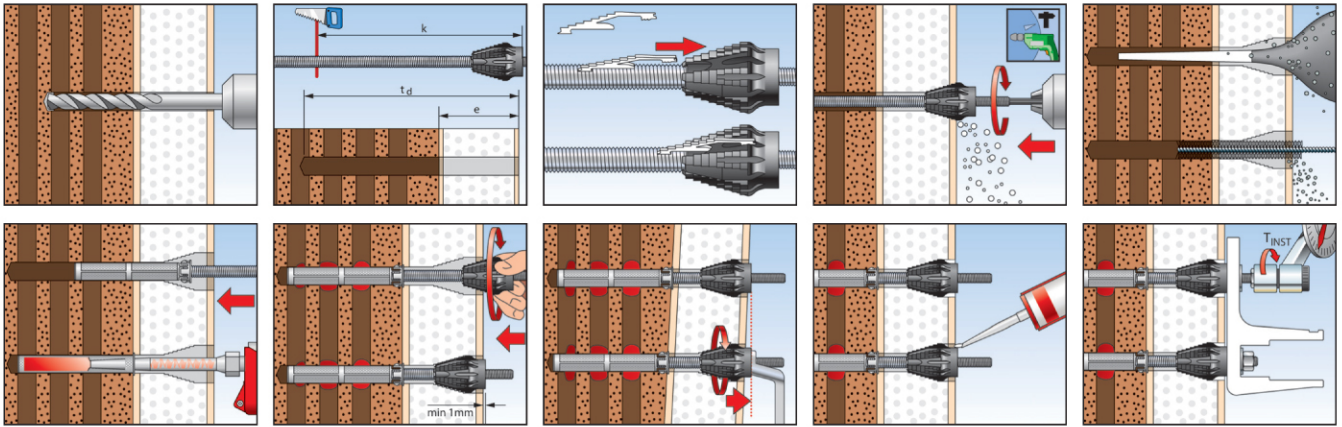


FIS SB mortar

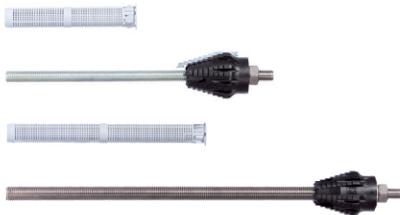


FIS GREEN mortar

## INSTALLATION

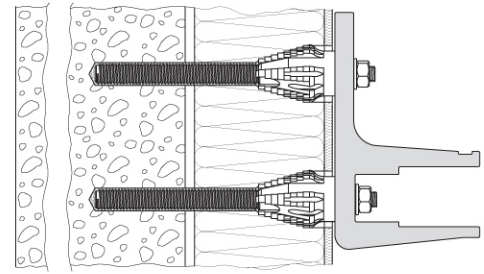
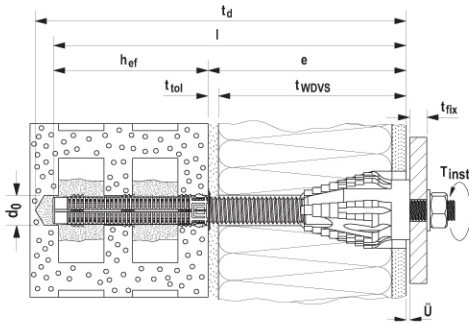


## TECHNICAL DATA



Item	zinc-plated steel	stainless steel	Approval	Contents	Sales unit
	Art.-No.	Art.-No.	DIBt		[pcs]
	gvz	A4			
<b>Thermax 12/110 M12</b>	<b>051291</b>	—	●	20 Thermax M12, 20 perforated sleeves 20 x 130, 5 bit, 5 cutting blades, 5 user manuals	20
<b>Thermax 12/110 M12</b>	—	<b>051537</b>	●	10 Thermax M12 A4, 10 perforated sleeves 20 x 130, 3 bit, 3 cutting blades, 3 user manual	10
<b>Thermax 12/110 M12 B</b>	<b>051290</b>	—	●	2 Thermax M12, 2 perforated sleeves 20 x 130, 1 bit, 1 cutting blade, 1 user manual	1
<b>Thermax 16/170 M12</b>	<b>051293</b>	—	●	20 Thermax M16, 20 perforated sleeves 20 x 200, 5 bit, 5 cutting blades, 5 applicator tip extension hoses, 5 user manuals	20
<b>Thermax 16/170 M12</b>	—	<b>051543</b>	●	10 Thermax M16 A4, 10 perforated sleeves 20 x 200, 3 bit, 3 cutting blades, 3 applicator tip extension hoses, 3 user manual	10
<b>Thermax 16/170 M12 B</b>	<b>051292</b>	—	●	2 Thermax M16, 2 perforated sleeves 20 x 200, 1 bit, 1 cutting blade, 1 applicator tip extension hose, 1 user manual	1

**INSTALLATION DATA**



Example for multiple fixing

Type	Length of Thermax incl. anti-cold cone l [mm]	Threaded rod in building material	Building material + insulation						Fixture			Required resin quantity [Scale unit]
			Building material	Suitable injection anchor sleeve	Drill hole diameter d <sub>0</sub> [mm]	Min. anchorage depth h <sub>ef</sub> [mm]	Drill hole depth t <sub>d</sub> [mm]	Thickness of non-bearing layer e [mm]	Max. fixture thickness t <sub>fix</sub> [mm]	Con-nection thread	Max. instal-lation torque T <sub>inst</sub> [mm]	
<b>Thermax M12</b>	240	M12	Concrete		14	70	$h_{ef} + e$	62 - 170	16 <sup>1)</sup>	M12	20	5
			Solid brick		14	80	$h_{ef} + e$	62 - 160				6
			Perforated brick	FIS H 20x130 K	20	130	$h_{ef} + e + 10 \text{ mm}$	62 - 110				26
			Aerated concrete		14	100	$h_{ef} + e$	62 - 140				8
<b>Thermax M16</b>	370	M16	Concrete		18	80	$h_{ef} + e$	62 - 290	16 <sup>1)</sup>	M12	20	7
			Solid brick		18	80	$h_{ef} + e$	62 - 290				7
			Perforated brick	FIS H 20x200 K	20	200	$h_{ef} + e + 10 \text{ mm}$	62 - 170				40
			Aerated concrete		18	100	$h_{ef} + e$	62 - 270				9

1) The setscrews may be replaced by a setscrew / fixing screw up to a length 200 mm.