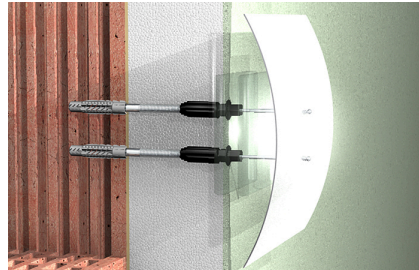


## The thermally separated stand-off installation in external thermal insulation composite systems (ETICS)



### BUILDING MATERIALS

- Concrete
- Vertically perforated brick
- Hollow block made from lightweight concrete
- Perforated sand-lime brick
- Solid sand-lime brick
- Building brick
- Aerated concrete

### ADVANTAGES

- The stand-off installation allows for the fixture to be adjusted to the exact position required, whereby pressure marks and damage to the ETICS are avoided. Combining Thermax 8 and 10 with the universal plug UX provides a secure anchoring in the substrate.
- 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 and fast installation without the need for any special tools.

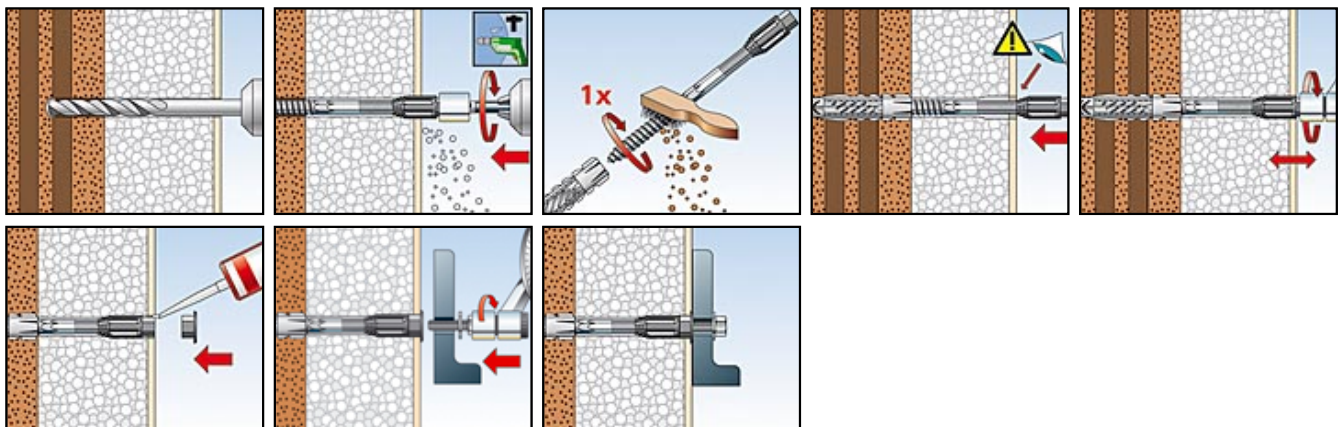
### APPLICATIONS

For the thermally separated fixing of:

- Signs
- Lighting
- Letter boxes
- Motion detectors
- Downpipes
- Lightning rods
- Blind guide rails

### FUNCTIONING

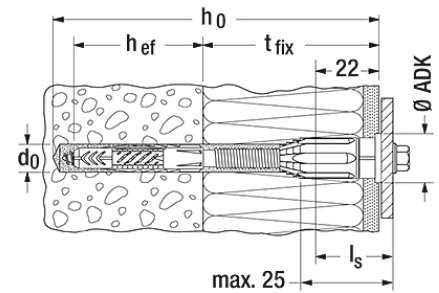
- The Thermax 8 and 10 systems are suitable for pre-positioned installation.
- The self-tapping, glass-fibre-reinforced cone cuts its own way through the plaster into the insulation during installation.
- The anti-cold cone uses a thermal barrier to minimise heat losses.
- Installation without any special tools.
- The extensive range features fitting options with metric screws (M6/8/10), sheet screws (6.3 mm), chipboard screws (6.0 mm) or chipboard screws (4.5 - 5.5 mm) when using an SX 5 expansion plug.



## TECHNICAL DATA



Stand-off installation Thermax 8 / 10



Article name	Art.-No.	Drill hole diameter $d_0$ [mm]	Usable length $t_{fix}$ [mm]	Chipboard / metric / sheet metal screw	Usable length (hef red.) $t_{fix}$ [mm]
Thermax 8/60 M6	045685	10	45 - 60	4,5 - 6,0 / M6 / 6,3	
Thermax 8/80 M6	045686	10	60 - 80	4,5 - 6,0 / M6 / 6,3	
Thermax 8/100 M6	045687	10	80 - 100	4,5 - 6,0 / M6 / 6,3	
Thermax 8/120 M6	045688	10	100 - 120	4,5 - 6,0 / M6 / 6,3	
Thermax 8/140 M6	045689	10	120 - 140	4,5 - 6,0 / M6 / 6,3	
Thermax 8/160 M6	045690	10	140 - 160	4,5 - 6,0 / M6 / 6,3	
Thermax 8/180 M6	045691	10	160 - 180	4,5 - 6,0 / M6 / 6,3	
Thermax 10/100 M6	045692	12	80 - 100	4,5 - 6,0 / M6 / 6,3	
Thermax 10/120 M6	045693	12	100 - 120	4,5 - 6,0 / M6 / 6,3	
Thermax 10/140 M6	045694	12	120 - 140	4,5 - 6,0 / M6 / 6,3	
Thermax 10/160 M6	045695	12	140 - 160	4,5 - 6,0 / M6 / 6,3	
Thermax 10/180 M6	045696	12	160 - 180	4,5 - 6,0 / M6 / 6,3	
Thermax 10/200 M6	512605	12	180 - 200	4,5 - 6,0 / M6 / 6,3	
Thermax 10/220 M6	514250	12	200 - 220	4,5 - 6,0 / M6 / 6,3	
Thermax 10/240 M6	514251	12	220 - 240	4,5 - 6,0 / M6 / 6,3	
Thermax 10/100 M8	045697	12	80 - 100	M8	
Thermax 10/120 M8	045698	12	100 - 120	M8	
Thermax 10/140 M8	045699	12	120 - 140	M8	
Thermax 10/160 M8	045700	12	140 - 160	M8	
Thermax 10/180 M8	514252	12	160 - 180	M8	
Thermax 10/200 M8	514253	12	180 - 200	M8	
Thermax 10/220 M8	514254	12	200 - 220	M8	
Thermax 10/240 M8	514255	12	220 - 240	M8	
Thermax 10/100 M10	045702	12	80 - 100	M10	
Thermax 10/120 M10	045703	12	100 - 120	M10	
Thermax 10/140 M10	045704	12	120 - 140	M10	
Thermax 10/160 M10	045705	12	140 - 160	M10	
Thermax 10/180 M10	514256	12	160 - 180	M10	
Thermax 10/200 M10	514257	12	180 - 200	M10	
Thermax 10/220 M10	514258	12	200 - 220	M10	
Thermax 10/240 M10	514259	12	220 - 240	M10	

## LOADS

### Stand-off installation Thermax 8 and 10

Highest recommended tensile loads<sup>1)</sup> for a single anchor.

Type			UX10/Thermax 8	UX12/Thermax 10
<b>Recommended tensile loads in the respective base material <math>N_{rec}</math><sup>2)</sup></b>				
Concrete <sup>3) 4)</sup>	≥ C20/25	[kN]	1,00	1,00
Solid brick <sup>3) 4)</sup>	≥ Mz 12	[kN]	0,50	0,70
Perforated sand-lime brick <sup>3) 4)</sup>	≥ KSL 12	[kN]	0,60	0,80
Vertically perforated brick <sup>4)</sup>	≥ Hlz 12	[kN]	0,20	0,30
Aerated concrete <sup>3) 4)</sup>	≥ P 4	[kN]	0,40	0,60

<sup>1)</sup> Includes the safety factor 7.

<sup>2)</sup> The UX-plug must be installed in the base material with full anchorage depth. The drilling method is to be adapted to the building material used. As different joint qualities are possible, the given values only apply for installation in the brick.

<sup>3)</sup> The given recommended tensile loads apply for fastenings with metric screws. When using chipboard screws with diameter 6,0 mm they have to be reduced to 0,35 kN.

<sup>4)</sup> The given recommended tensile loads apply for fastenings with metric screws. When using a SX 5-plug chipboard screws with diameter 4,5 - 5,5 mm they have to be reduced to 0,1 kN.

## LOADS

### Stand-off installation Thermax 8 and 10

Highest recommended shear loads<sup>1)</sup> for a single anchor.

Type			UX10/Thermax 8	UX12/Thermax 10
<b>Recommended shear loads <math>V_{rec}</math><sup>1)</sup></b>				
External Thermal Insulation Composite System <sup>2)</sup>	≤ 180 mm	[kN]	0,15	0,20

<sup>1)</sup> Required safety factors are considered.

<sup>2)</sup> Values are valid for an EWI made from PS- respectively PU-rigid foam panels.