

# TFIX-8ST UNIVERSAL FACADE FIXINGS

The first thermal insulation combination screw fixing that can be countersunk together with the integrated insulation cap.



## Product information

### Features and benefits

- Accurate countersunk setting - TFIX-DEVICE automatically sets the fixing flush with the insulation layer.
- Integrated insulation cap (with unique surface reinforcement) equalizes thermal conductivity over the fixing point, whilst also leveling out drying times of render.
- Unique sleeve compression zone for precision installations.
- Simple countersunk installation in all substrates (A,B,C,D,E).
- The long plastic overmoulding on the TFIX-8ST screw minimises thermal bridging (value 0.001-0,002W/K), contributing to energy-saving benefits
- The shortest embedment depth at the maximum strength parameters.

### Applications

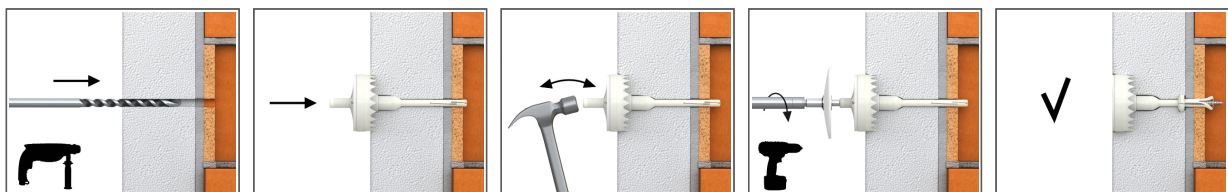
- Polystyrene (EPS) boards
- Mineral wool
- Polyurethane (PU) boards

### Base materials

#### Approved for use in:

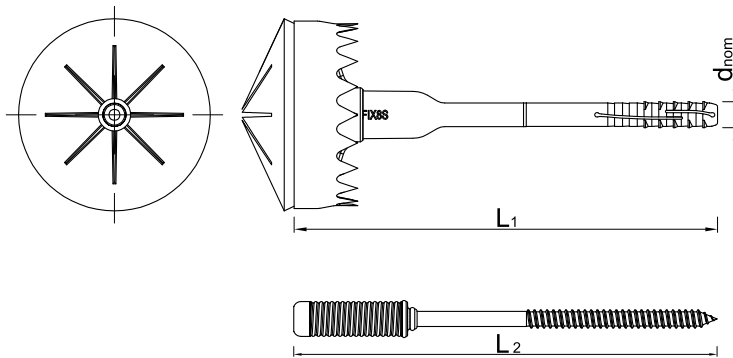
- Concrete C12/15-C50/60 (Use category A)
- Solid Brick (Use category B)
- Solid Sand-lime Brick (Use category B)
- Hollow Brick (Use category C)
- Hollow Sand-lime Brick (Use category C)
- Vertically-perforated clay block (Use category C)
- Lightweight Concrete Block (Use category C)
- Hollow Lightweight Concrete Block (Use category C)

## Installation guide



1. Drill a hole of required diameter and depth
2. Lightly tap the plastic sleeve through the insulation material into hole with a hammer, until fixing depth is reached
3. When using the TFIX-DEVICE the teeth should be embedded in the insulation material after hammering.
4. Embedment depth of min 25mm in A,B,C,D materials and 65mm in Aerated Concrete Block
5. Drilling depth of min 40mm in A,B,C,D materials and 80mm in Aerated Concrete Block

## Product information



Size	Product Code	Fixing			Fixture			
		Diameter	Length	Plate diameter	Min. thickness		Max. thickness	
		d	L	D	t <sub>fix</sub> A, B, C, D	t <sub>fix</sub> E	t <sub>fix</sub> A, B, C, D	t <sub>fix</sub> E
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
Ø08	TFIX-8ST-A2-115	8	115	60	80	40	100	60
	TFIX-8ST-A2-135	8	135	60	100	60	120	80
	TFIX-8ST-A2-155	8	155	60	120	80	140	100
	TFIX-8ST-A2-175	8	175	60	140	100	160	120
	TFIX-8ST-A2-195	8	195	60	160	120	180	140
	TFIX-8ST-A2-215	8	215	60	180	140	200	160
	TFIX-8ST-A2-235	8	235	60	200	160	220	180
	TFIX-8ST-A2-255	8	255	60	220	180	240	200
	TFIX-8ST-A2-275	8	275	60	240	200	260	220
	TFIX-8ST-A2-295	8	295	60	260	220	280	240
TFIX-8ST-A2-335	8	335	60	300	260	320	280	

## Installation data

Substrate			A, B, C, D	E
Fixing diameter	d	[mm]	8	8
Hole diameter in substrate	d <sub>0</sub>	[mm]	8	8
Min. hole depth in substrate	h <sub>0</sub>	[mm]	40	80
Installation depth	h <sub>nom</sub>	[mm]	25	65
Min. substrate thickness	h <sub>min</sub>	[mm]	100	100
Min. spacing	s <sub>min</sub>	[mm]	100	100
Min. edge distance	c <sub>min</sub>	[mm]	100	100

## Basic performance data

Performance data for single anchor in tension without influence of edge distance and spacing

Substrate		Concrete C12/15	Concrete C16/20	Concrete C50/60	Solid brick Mz	Vertically perforated	Sand-lime solid brick KS	Sand-lime perforated	Lightweight concrete solid	Lightweight concrete	Lightweight concrete	Prefabricated reinforced	Prefabricated reinforced	Autoclaved aerated	Autoclaved aerated
		[mm]	25	25	25	25	25	25	25	25	25	25	25	25	65
<b>MEAN ULTIMATE LOAD N<sub>Rt,m</sub></b>															
TFIX-8ST	[kN]	1.64	2.03	1.74	1.68	0.94	1.32	1.15	0.64	0.48	0.71	0.66	0.99	1.08	1.61
<b>CHARACTERISTIC LOAD N<sub>Rk</sub></b>															
TFIX-8ST	[kN]	1.2	1.5	1.2	1.2	0.75	0.9	0.9	0.5	0.4	0.6	0.4	0.6	0.9	1.2
<b>DESIGN LOAD N<sub>Rd</sub></b>															
TFIX-8ST	[kN]	0.6	0.75	0.6	0.6	0.38	0.45	0.45	0.25	0.2	0.3	0.2	0.3	0.45	0.6

## Basic performance data

Substrate		Concrete C12/15	Concrete C16/20	Concrete C50/60	Solid brick Mz	Vertically perforated	Sand-lime solid brick KS	Sand-lime perforated	Lightweight concrete solid	Lightweight concrete	Lightweight concrete	Prefabricated reinforced	Prefabricated reinforced	Autoclaved aerated	Autoclaved aerated
<b>RECOMMENDED LOAD N<sub>rec</sub></b>															
TFIX-8ST	[kN]	0.43	0.54	0.43	0.43	0.27	0.32	0.32	0.18	0.14	0.21	0.14	0.21	0.32	0.43

Fixing type		TFIX-8ST
Plate resistance	[kN]	2.04
Plate stiffness	[kN/mm]	0.6
Point thermal transmittance ?	[W/K]	0.002

## Product Commercial Data

Size	Product Code	Fixing			Quantity [pcs]			Weight [kg]			Bar Codes	Art No.
		Diameter [mm]	Length [mm]	Plate diameter [mm]	Box	Outer	Pallet	Box	Outer	Pallet		
Ø8	TFIX-8ST-A2-115	8	115	60	100	100	3200	4.3	4.3	168.6	5906675071589	92769
	TFIX-8ST-A2-135	8	135	60	100	100	3200	4.7	4.7	181.0	5906675071596	92770
	TFIX-8ST-A2-155	8	155	60	100	100	3200	5.0	5.0	189.0	5906675071602	92771
	TFIX-8ST-A2-175	8	175	60	100	100	3200	5.3	5.3	199.0	5906675071619	92772
	TFIX-8ST-A2-195	8	195	60	100	100	3200	5.6	5.6	209.2	5906675071626	92773
	TFIX-8ST-A2-215	8	215	60	100	100	3200	5.9	5.9	218.5	5906675071633	92774
	TFIX-8ST-A2-235	8	235	60	100	100	3200	6.1	6.1	225.2	5906675071640	92775
	TFIX-8ST-A2-255	8	255	60	100	100	3200	6.6	6.6	240.6	5906675071657	92776
	TFIX-8ST-A2-275	8	275	60	100	100	3200	6.6	6.6	240.0	5906675071664	92777
	TFIX-8ST-A2-295	8	295	60	100	100	3200	6.9	6.9	249.9	5906675071671	92778
TFIX-8ST-A2-335	8	335	60	100	100	3200	7.6	7.6	273.0	5906675071688	92779	