

R-TFIX-8SX Universal facade fixing with plain screw

The most effective screw-in facade fixing for countersunk installation with the possibility of surface mounting



Approvals and Reports

- ETA 17/0161



Product information

Features and benefits

- Quick and easy installation in all substrates (categories A,B,C,D,E)
- Installation with post-installed insulation cap R-TFIX-CAP reduces heat transmission and results in a homogenous insulation surface
- Plate stiffness (value 0.6 kN/mm) ensures smooth elevation surface and stable insulation system.
- Unique design allows for high load-bearing capacities. This reduces the quantity of fixings required per square metre of insulation
- The shortest embedment depth at the maximum strength parameters
- Countersunk installation possible with use of R-TFIX-TOOL-CS or additional R-KWX-063 plate with post-installed R-TFIX-CAP63 insulation cap and system bit R-TFIX-TOOL-BLACK
- Installation flush with the surface possible with use of R-TFIX-TOOL-BLACK system bit and post-installed R-TFIX-CAP15 insulation cap
- Pre-assembled screw saves time and labour

Applications

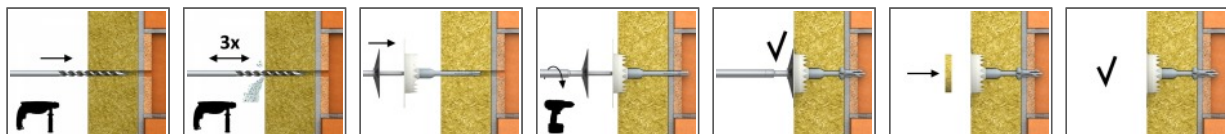
- External Thermal Insulation Composite Systems (ETICS)

Base materials

Approved for use in:

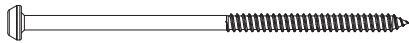
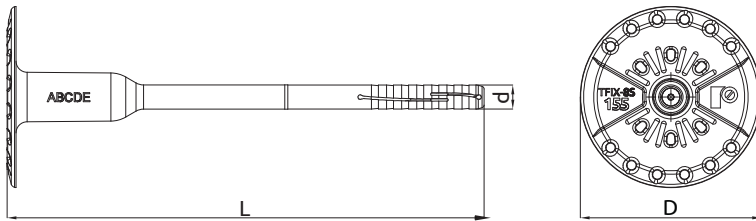
- Concrete C12/15-C50/60 (Use category A)
- Solid Brick (Use category B)
- Solid Sand-lime Brick (Use category B)
- Vertically-perforated clay block (Use category C)
- Reinforced components of lightweight aggregate concrete (Use category D)
- Aerated Concrete Block (Use category E)

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 KWX-63 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 35mm in A,B,C,D materials and 75mm in Aerated Concrete Block
6. Apply steady axial pressure, ensuring the disc of the setting tool is kept perpendicular to the fixing axis.

Product information



Size	Product Code	Fixing			Fixture	
		Diameter	Plate diameter	Length	Recommended thickness	
		d	D	L	t_{fix} A, B, C, D	t_{fix} E
[mm]						
Ø08	R-TFIX-8SX-115	8	60	115	80	40
	R-TFIX-8SX-135	8	60	135	100	60
	R-TFIX-8SX-155	8	60	155	120	80
	R-TFIX-8SX-175	8	60	175	140	100
	R-TFIX-8SX-195	8	60	195	160	120
	R-TFIX-8SX-215	8	60	215	180	140
	R-TFIX-8SX-235	8	60	235	200	160
	R-TFIX-8SX-255	8	60	255	220	180
	R-TFIX-8SX-275	8	60	275	240	200
	R-TFIX-8SX-295	8	60	295	260	220
	R-TFIX-8SX-335	8	60	335	300	260
	R-TFIX-8SX-355	8	60	355	320	280
	R-TFIX-8SX-375	8	60	375	340	300
	R-TFIX-8SX-395	8	60	395	360	320
	R-TFIX-8SX-415	8	60	415	380	340
	R-TFIX-8SX-435	8	60	435	400	360
R-TFIX-8SX-455	8	60	455	420	380	

Installation data

Substrate			A, B, C, D	A - external panel	E
Fixing diameter	d	[mm]	8	8	8
Hole diameter in substrate	d_0	[mm]	8	8	8
Installation depth	h_{nom}	[mm]	25	25	65
Min. hole depth in substrate	h_0	[mm]	35	35	75
Min. hole depth in substrate - countersunk mounting	h_0	[mm]	45	45	85
Min. substrate thickness	h_{min}	[mm]	100	40	100
Min. spacing	s_{min}	[mm]	100	100	100
Min. edge distance	c_{min}	[mm]	100	100	100

Basic performance data

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

Substrate		Concrete C12/15	Concrete min. C16/20	External wall panel of concrete	Solid clay brick min 20MPa (eg Mz20/2.0)	Sand-lime brick min. 30MPa	Hollow brick 15MPa	Prefabricated reinforced components of lightweight aggregate concrete 4MPa	Auto-claved aerated concrete AAC 4MPa
Effective embedment depth h_{ef}	[mm]	25	25	25	25	25	25	25	65
MEAN ULTIMATE LOAD $N_{R,m}$									
TFIX-8S	[kN]	1.64	2.03	2.03	1.78	1.94	1.13	1.12	1.56
CHARACTERISTIC LOAD $N_{R,k}$									
TFIX-8S	[kN]	1.20	1.50	1.50	1.50	1.50	0.90	0.90	1.20
DESIGN LOAD $N_{R,d}$									
TFIX-8S	[kN]	0.60	0.75	0.75	0.75	0.75	0.45	0.45	0.60
RECOMMENDED LOAD $N_{R,ec}$									
TFIX-8S	[kN]	0.43	0.54	0.54	0.54	0.54	0.32	0.32	0.43

Fixing type		TFIX-8S
Plate resistance	[kN]	2.04
Plate stiffness	[kN/mm]	0.6
Point thermal transmittance	[W/K]	0,001 - 0,002

Product commercial data

Size	Product Code	Fixing			Quantity [pcs]			Weight [kg]			Bar Codes
		Diameter [mm]	Plate diameter [mm]	Length [mm]	Box	Outer	Pallet	Box	Outer	Pallet	
Ø8	R-TFIX-8SX-115 ¹⁾	8	60	115	200	200	8000	5.4	5.4	246.7	5906675417660
	R-TFIX-8SX-135 ¹⁾	8	60	135	200	200	8000	6.0	6.0	269.3	5906675417677
	R-TFIX-8SX-155 ¹⁾	8	60	155	200	200	8000	6.8	6.8	300.2	5906675417684
	R-TFIX-8SX-175 ¹⁾	8	60	175	200	200	6400	7.4	7.4	265.3	5906675417691
	R-TFIX-8SX-195 ¹⁾	8	60	195	200	200	6400	8.1	8.1	288.0	5906675417707
	R-TFIX-8SX-215 ¹⁾	8	60	215	100	100	4000	4.6	4.6	215.0	5906675417714
	R-TFIX-8SX-235 ¹⁾	8	60	235	100	100	4000	4.9	4.9	225.2	5906675417738
	R-TFIX-8SX-255 ¹⁾	8	60	255	100	100	4000	5.1	5.1	235.4	5906675417745
	R-TFIX-8SX-275 ¹⁾	8	60	275	100	100	4000	5.5	5.5	249.4	5906675417752
	R-TFIX-8SX-295 ¹⁾	8	60	295	100	100	4000	5.9	5.9	267.5	5906675417769
	R-TFIX-8SX-335 ¹⁾	8	60	335	100	100	4000	6.5	6.5	288.9	5906675417776
	R-TFIX-8SX-355 ¹⁾	8	60	355	100	100	3200	7.1	7.1	256.5	5906675417783
	R-TFIX-8SX-375 ¹⁾	8	60	375	100	100	3200	7.3	7.3	264.2	5906675417790
	R-TFIX-8SX-395 ¹⁾	8	60	395	50	50	1600	4.2	4.2	162.7	5906675417806
	R-TFIX-8SX-415 ¹⁾	8	60	415	50	50	1600	4.3	4.3	168.9	5906675417813
	R-TFIX-8SX-435 ¹⁾	8	60	435	50	50	1600	4.5	4.5	173.9	5906675417837
R-TFIX-8SX-455 ¹⁾	8	60	455	50	50	1600	4.6	4.6	176.7	5906675417844	

1) ETA 17/0161