

TFIX-8S UNIVERSAL FACADE FIXINGS

Versatile screw-in facade fixing with high performance in all base materials recommended for ETICS



Product information

Features and benefits

- Quick and easy installation in all substrates (categories A,B,C,D,E)
- Unique sleeve compression zone for precision installations.
- The long plastic overmoulding on the TFIX-8S screw minimises thermal bridging (value 0.002W/K), contributing to energy-saving benefits
- The shortest embedment depth at the maximum strength parameters.
- Unique design allows for high load-bearing capacities. This reduces the quantity of fixings required per square metre of insulation.
- Plate stiffness (value 0.6 kN/mm) ensures smooth elevation surface and stable insulation system.
- Pre-assembled screw saves time and labour.

Applications

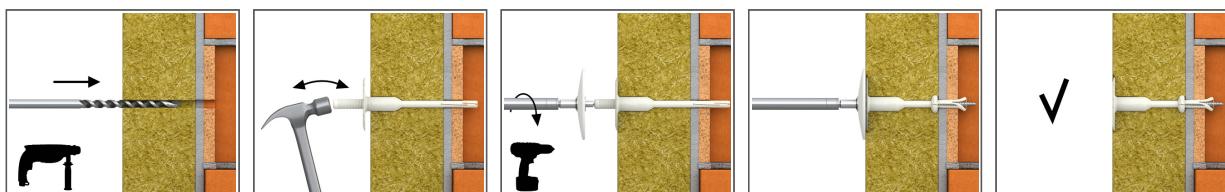
- Polystyrene (EPS) boards
- Mineral wool
- Light wood wool building boards
- Polyurethane (PU) boards
- Cork boards

Base materials

Approved for use in:

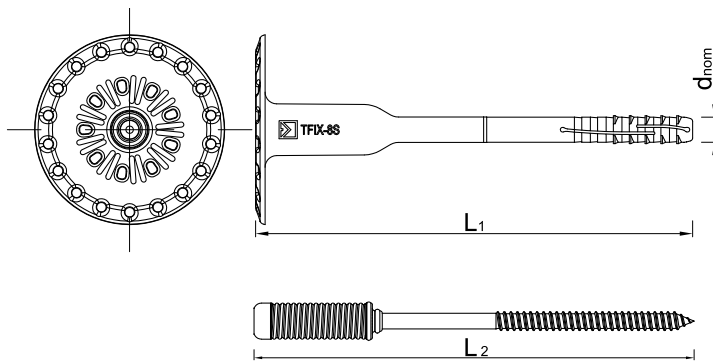
- Concrete C12/15-C50/60 (Use category A)
- Solid Brick (Use category B)
- Solid Sand-lime Brick (Use category B)
- Hollow Brick (Use category C)
- Hollow Sand-lime Brick (Use category C)
- Vertically-perforated clay block (Use category C)
- Lightweight Concrete Block (Use category C)
- Hollow Lightweight 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. Tighten screw (ideally using special TFIX-8ST-TOOL setting tool) until fixing is secure and flush with insulation material.
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
6. In soft insulation panels the fixing should be combined with insulation retaining plates KWL-90, KWL-110, KWL-140.

Product information



| Size | Product Code | Fixing | | | Fixture | | | |
|----------------|----------------|-----------|-----------|----------------|-------------------------------------|----------------------------|-------------------------------------|----------------------------|
| | | Diameter | Length | Plate diameter | Min. thickness | | Max. thickness | |
| | | d [mm] | L [mm] | D [mm] | t _{fix} A, B, C, D [mm] | t _{fix} E [mm] | t _{fix} A, B, C, D [mm] | t _{fix} E [mm] |
| Ø08 | TFIX-8S-A2-115 | 8 | 115 | 60 | 80 | 40 | 100 | 60 |
| | TFIX-8S-A2-135 | 8 | 135 | 60 | 100 | 60 | 120 | 80 |
| | TFIX-8S-A2-155 | 8 | 155 | 60 | 120 | 80 | 140 | 100 |
| | TFIX-8S-A2-175 | 8 | 175 | 60 | 140 | 100 | 160 | 120 |
| | TFIX-8S-A2-195 | 8 | 195 | 60 | 160 | 120 | 180 | 140 |
| | TFIX-8S-A2-215 | 8 | 215 | 60 | 180 | 140 | 200 | 160 |
| | TFIX-8S-A2-235 | 8 | 235 | 60 | 200 | 160 | 220 | 180 |
| | TFIX-8S-A2-255 | 8 | 255 | 60 | 220 | 180 | 240 | 200 |
| | TFIX-8S-A2-275 | 8 | 275 | 60 | 240 | 200 | 260 | 220 |
| | TFIX-8S-A2-295 | 8 | 295 | 60 | 260 | 220 | 280 | 240 |
| TFIX-8S-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 ₀ | [mm] | 8 | 8 |
| Min. hole depth in substrate | h ₀ | [mm] | 40 | 80 |
| Installation depth | h _{nom} | [mm] | 25 | 65 |
| Min. substrate thickness | h _{min} | [mm] | 100 | 100 |
| Min. spacing | s _{min} | [mm] | 100 | 100 |
| Min. edge distance | c _{min} | [mm] | 100 | 100 |

Basic performance data

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

| Substrate | [mm] | Prefabricated reinforced | Autoclaved aerated | Autoclaved aerated | Concrete C12/15 | Concrete min. 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 |
|--|------|---------------------------------|--------------------|--------------------|-----------------|----------------------|-----------------|----------------|-----------------------|--------------------------|----------------------|----------------------------|----------------------|----------------------|--------------------------|
| | | Embedment depth h _{ef} | [mm] | 25 | 65 | 65 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| MEAN ULTIMATE LOAD N_{Rt,m} | | | | | | | | | | | | | | | |
| TFIX-8S | [kN] | 0.99 | 1.08 | 1.61 | 1.64 | 2.03 | 1.74 | 1.68 | 0.94 | 1.32 | 1.15 | 0.64 | 0.48 | 0.71 | 0.66 |
| CHARACTERISTIC LOAD N_{Rk} | | | | | | | | | | | | | | | |
| TFIX-8S | [kN] | 0.6 | 0.9 | 1.2 | 1.2 | 1.5 | 1.2 | 1.2 | 0.75 | 0.9 | 0.9 | 0.5 | 0.4 | 0.6 | 0.4 |
| DESIGN LOAD N_{Rd} | | | | | | | | | | | | | | | |
| TFIX-8S | [kN] | 0.3 | 0.45 | 0.6 | 0.6 | 0.75 | 0.6 | 0.6 | 0.38 | 0.45 | 0.45 | 0.25 | 0.2 | 0.3 | 0.2 |

Basic performance data

| Substrate | [kN] | Prefabricated reinforced | Autoclaved aerated | Autoclaved aerated | Concrete C12/15 | Concrete min. 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 |
|-----------|------|-----------------------------------|--------------------|--------------------|-----------------|----------------------|-----------------|----------------|-----------------------|--------------------------|----------------------|----------------------------|----------------------|----------------------|--------------------------|
| | | RECOMMENDED LOAD N _{rec} | | | | | | | | | | | | | |
| TFIX-8S | [kN] | 0.21 | 0.32 | 0.43 | 0.43 | 0.54 | 0.43 | 0.43 | 0.27 | 0.32 | 0.32 | 0.18 | 0.14 | 0.21 | 0.14 |

| Fixing type | | TFIX-8S |
|-------------------------------|---------|---------|
| 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-8S-A2-115 | 8 | 115 | 60 | 200 | 200 | 8000 | 5.7 | 5.7 | 259.6 | 5906675071466 | 92758 |
| | TFIX-8S-A2-135 | 8 | 135 | 60 | 200 | 200 | 8000 | 6.5 | 6.5 | 291.2 | 5906675071473 | 92759 |
| | TFIX-8S-A2-155 | 8 | 155 | 60 | 200 | 200 | 6400 | 7.2 | 7.2 | 260.4 | 5906675071480 | 92760 |
| | TFIX-8S-A2-175 | 8 | 175 | 60 | 200 | 200 | 6400 | 7.8 | 7.8 | 280.9 | 5906675071503 | 92761 |
| | TFIX-8S-A2-195 | 8 | 195 | 60 | 200 | 200 | 6400 | 8.4 | 8.4 | 298.5 | 5906675071510 | 92762 |
| | TFIX-8S-A2-215 | 8 | 215 | 60 | 100 | 100 | 4000 | 4.8 | 4.8 | 222.4 | 5906675071527 | 92763 |
| | TFIX-8S-A2-235 | 8 | 235 | 60 | 100 | 100 | 4000 | 5.1 | 5.1 | 234.4 | 5906675071534 | 92764 |
| | TFIX-8S-A2-255 | 8 | 255 | 60 | 100 | 100 | 4000 | 5.4 | 5.4 | 245.6 | 5906675071541 | 92765 |
| | TFIX-8S-A2-275 | 8 | 275 | 60 | 100 | 100 | 4000 | 5.4 | 5.4 | 244.0 | 5906675071558 | 92766 |
| | TFIX-8S-A2-295 | 8 | 295 | 60 | 100 | 100 | 4000 | 5.7 | 5.7 | 256.4 | 5906675071565 | 92767 |
| TFIX-8S-A2-335 | 8 | 335 | 60 | 100 | 100 | 4000 | 6.4 | 6.4 | 285.2 | 5906675071572 | 92768 | |