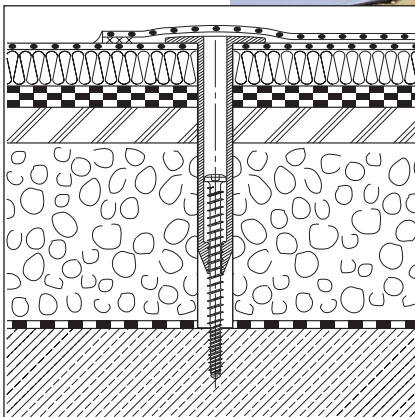


isofast TIT: adjustable fastening system for attaching flat roofs to thin walled concrete structures.

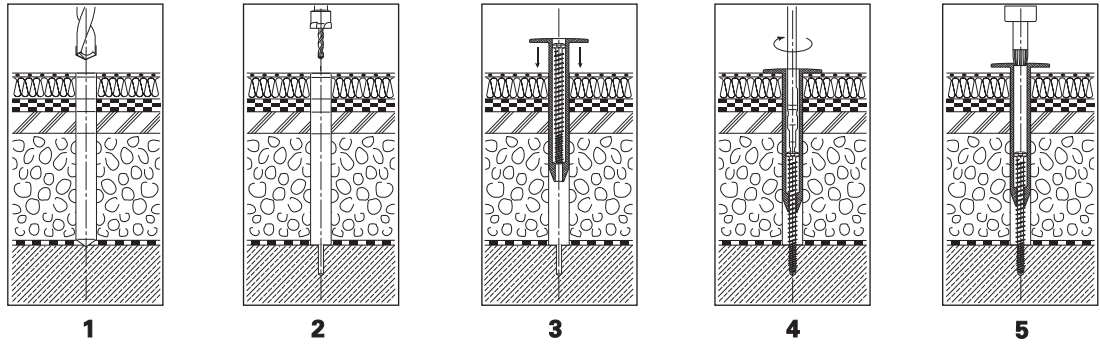
The TIT fastening system sets new standards in flat roof attachment:

- only 1 fastener for differing thicknesses of roof build up
- each fastener can accommodate a build up range of 70-280 mm,
- no penetration of the concrete structure
- removable fastening system

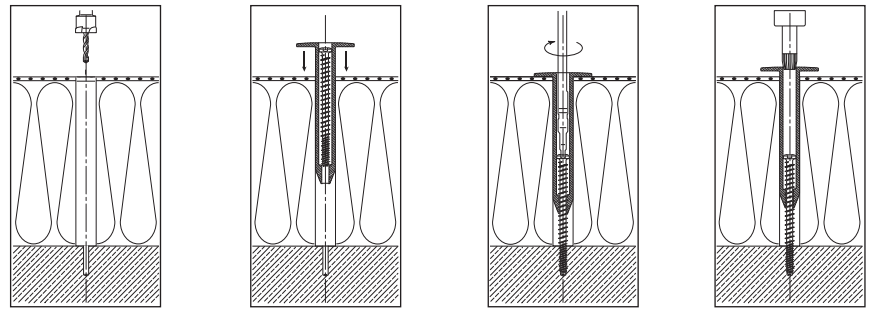


Installation process

Refurbishment

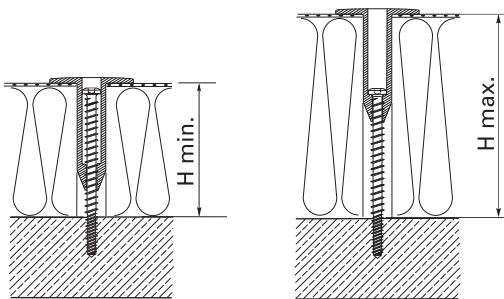


New construction



- 1 Pilot drill a 20.0 mm dia. hole through the existing roof build-up using a carbide drill bit
- 2 Drill a hole in the concrete structure.
- 3 Insert sleeve in the pre-drilled hole and insert fastener in sleeve.
- 4 Screw fastener through sleeve into concrete with applied pressure.
- 5 Tighten sleeve if necessary (clockwise if the sleeve head is not completely flush).

Fastener selection



Drilling depth: 25 mm
Setting depth: min. 18 mm

| No | Sleeve L | A | | B | | C | | D | |
|----|-------------|------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|-----|-----|-----|-----|
| | | TIT50-6,3 x 70 H min. H. max. | TIT70-6,3 x 90 H min. H. max. | TIT100-6,3 x 120 H min. H. max. | TIT130-6,3 x 150 H min. H. max. | | | | |
| 1 | 40 | 50 | 70 | - | - | - | - | - | - |
| 2 | 70 | 75 | 105 | 80 | 120 | - | - | - | - |
| 3 | 100 | 110 | 130 | 110 | 150 | 110 | 180 | - | - |
| 4 | 130 | 140 | 160 | 140 | 180 | 140 | 210 | 140 | 240 |
| 5 | 160 | - | - | 170 | 210 | 170 | 240 | 170 | 270 |
| 6 | 190 | - | - | 200 | 240 | 200 | 270 | 200 | 300 |
| 7 | 230 | - | - | 240 | 280 | 240 | 310 | 240 | 340 |
| 8 | 300 | - | - | 300 | 350 | 310 | 380 | 310 | 410 |

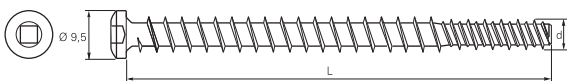
Example

Tapered roof
 Demand fixing height: 110 - 240 mm

Combination

3B = sleeve 100 + screw 90 covering 110-150 mm
 4D = sleeve 130 + screw 150 covering 140-240 mm

Technical data



recommended design load
at min. setting depth of 18 mm:

threadforming torque :

Material:

Anti-corrosion protection:

0,5 kN (The design load can vary for each roof system. Please check with the membrane manufacturers data.)

6-8 Nm

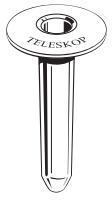
Carbon steel, case hardened

Durocoat, at least 15 Kesternich cycles (DIN 50018)


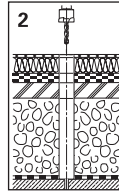


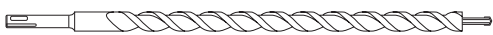

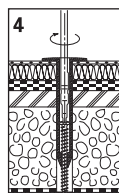
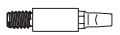
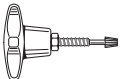

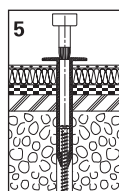
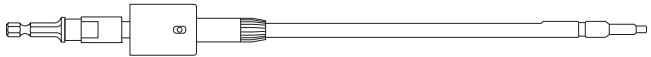
Delivery programme - screws

| Order example / Order code | | | | Weight kg/1000 | Packaging unit (quantity) | Remarks |
|----------------------------|--|-----------------------|------------------|-------------------|---------------------------------|---------|
| Type | Roof structure thick- ness KL min. (mm) | Thread dia. d (mm) | Length L (mm) | | | |
| TIT | 50 | 6,3 x | 70 | 13,1 | 250 | |
| TIT | 70 | 6,3 x | 90 | 16,5 | 250 | |
| TIT | 100 | 6,3 x | 120 | 21,1 | 250 | |
| TIT | 130 | 6,3 x | 150 | 23,7 | 100 | |

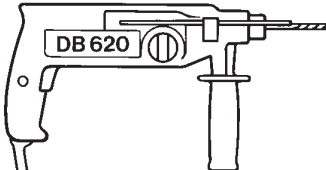
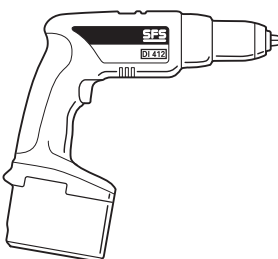
Delivery programme - sleeves

| Order example / Order code | | | Sleeve | Weight kg/1000 | Packaging unit (quantity) | Remarks |
|----------------------------|-----------------------|------------------|---|-------------------|---------------------------------|---------|
| Type | Head diameter (mm) | Length L (mm) | | | | |
| TH | 42 - | 40 |  | 5,8 | 2400 | |
| TH | 42 - | 70 | | 8,4 | 1500 | |
| TH | 42 - | 100 | | 11,6 | 900 | |
| TH | 42 - | 130 | | 13,5 | 700 | |
| TH | 42 - | 160 | | 16,2 | 500 | |
| TH | 42 - | 190 | | 19,2 | 400 | |
| TH | 42 - | 230 | | 23,2 | 350 | |

Delivery programme - tools

| Product | Order code | Application (see installation process) | Packaging unit (quantity) |
|---|---|---|---------------------------------|
| Drill extension (500 mm and 750 mm)  | ZAK-500 ZAK-750 |  | 1 1 |
| Drill bit with stopper  | ZVK-5x25x90stop ZVK-5x35x100stop ZVK-5x45x110stop ZVK-5x55x120stop ZVK-8x65x130stop | | 1 1 1 1 1 |
| Drill bit without stopper  | ZVK-5x55x115 ZVK-5x100x160 ZVK-8x80x140 | | 1 1 1 |
| Stepped drill bit  | SDS16/4,8x400 | | 1 |
| Drive shaft (300 mm and 670 mm long)  | ZA 1/4"-M6-300 ZA 1/4"-M6-670 |  | 1 1 |
| Socket  | SQ3 - UNS 1/4" x 24 | | 10 |
| Adjusting tool  | AJ 60 x 130 TIT | | 1 |
| Adjusting bit (fits to the Drive shaft)  | AJ-M6 |  | 1 |
| Adjusting tool  | DF32-300 | | 1 |

Delivery programme - installation tools

| Product | Order code | Packaging unit (quantity) |
|--|------------|---------------------------|
| Electro pneumatic hammer drill with SDS  | DB 620 | 1 inc. case |
| Light weight battery screwgun DI 412  | DI 412 | 1 inc. case |

Optimum fastening technology based on intensive cooperation with systems manufacturers



Roofing system manufacturers are constantly improving and developing their products, and SFS is matching these developments with new fastener technologies. SFS technical specialists are working in partnership with the leading manufacturers in waterproof membrane and insulation systems, as well as external cladding and roofing systems, structures and decking to bring competitive, high-performance fastener solutions to the market. SFS products are endorsed - sometimes exclusively - by many of the industry's major systems suppliers - testimony to our commitment to a partnership approach to practical, customized solutions for today's changing market.

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To make you more competitive.