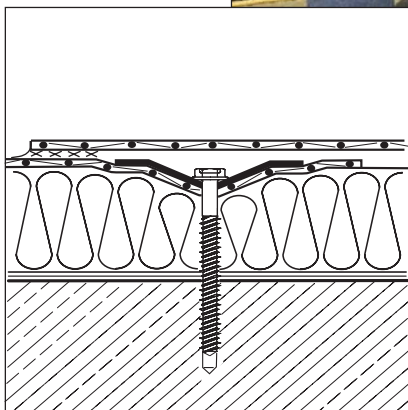


## Efficient fastening in concrete and brickwork without plugs: SFS TI

The new TI fastener for application in concrete and brickwork, distinguishing itself through

- easy handling
- plugs are unnecessary
- cuts a thread directly into the substrate
- low driving torque
- high pull-out value
- removable



# Fastening of waterproof membranes and insulation to solid, hollowpot and thin walled concrete decks

## Technical information

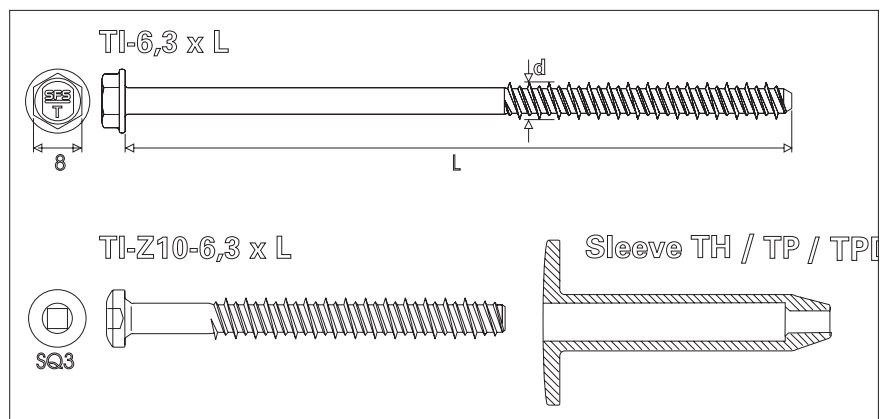
### isofast TI

#### Material:

Screw:	carbon steel, case hardened Durocoat corrosion protection
Stress plates:	Aluzinc coated steel
Sleeve THTP and TPD:	Polypropylene

#### Applications:

For fastening waterproof membranes to various concrete decks.  
For fastening insulation to various concrete decks.



#### Generally:

Optimum installation speed 700 r.p.m.

Pull out tests must always be made on all refurbishment projects if quality of the base material is not known.

Minimum concrete thickness 25 mm.  
Minimum embedment 20 mm.

#### Recommended design load:

For application with IRD stressplate, as well as for screw-sleeve combination, 0,5 kN per fastener is recommended.

#### Please note:

The design load can vary depending on the roof system and type of membrane. Please check with the membrane manufacturer.

#### Installation tools for optimum





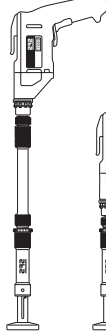

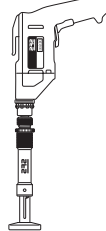
##### efficiency:

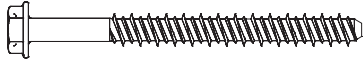
- DB 620** hammer drill
- SDS** drill bits
- DI 600** screwdriver
- DI 412** battery powered screwdriver
- IF 80** installation tool

# Fastening to solid, hollowpot and thin walled concrete decks

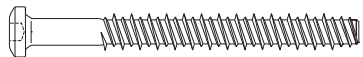
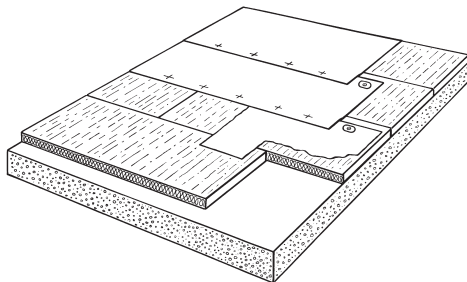
## Product/Order code

## Additional information

Type	Head style	Diameter d (mm)	Length L (mm)	Build-up thickness KL max. (mm)	Drill bit Ø x length		Installation tool
<b>TI</b>	-	<b>6,3x</b>	...				<b>DI 600</b> 
<b>TI</b>	- <b>Z10</b>	<b>6,3x</b>	...				or <b>DI 412</b> 
			<b>25</b>	5	4,8*x 110		<b>Hammer drill DB 620</b> 
			<b>32</b>	12	4,8*x 120		
			<b>45</b>	25	4,8*x 160		
			<b>55</b>	35	4,8*x 160		
			<b>65</b>	45	4,8*x 160		
			<b>75</b>	55	4,8*x 160		
			<b>85</b>	65	4,8*x 160		
			<b>95</b>	75	4,8*x 210		
			<b>105</b>	85	4,8*x 210		
			<b>115</b>	95	4,8*x 210		
			<b>125</b>	105	4,8*x 210		
			<b>135</b>	115	4,8*x 210		
			<b>145</b>	125	4,8*x 260		
			<b>155</b>	135	4,8*x 260		
			<b>165</b>	145	4,8*x 260		
			<b>175</b>	155	4,8*x 260		
			<b>195</b>	175	4,8*x 310		
			<b>205</b>	185	4,8*x 310		
			<b>215</b>	195	4,8*x 310		
			<b>235</b>	215	4,8*x 360		
			<b>255</b>	235	4,8*x 360		
			<b>275</b>	255	4,8*x 360		
			<b>25</b>				<b>Required tooling for TI:</b> - Drive shaft ZA 1/4" - Socket E 380 - Depth locator Z 661/IF
			<b>32</b>				
			<b>45</b>				
			<b>55</b>				
			<b>65</b>				
			<b>75</b>				
			<b>85</b>				
			<b>95</b>				
			<b>125</b>				
			<b>165</b>				
							<b>Required tooling for TI-Z10:</b> - Drive shaft ZA 1/4" x 250 (500) - Drive bit SQ3-UNS 1/4" x 24



**TI-6,3x**



**TI-Z10-6,3x**

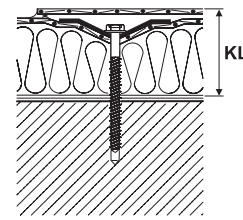
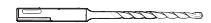


\*on hard concrete the Ø 5,2 mm drill bit can be used without any negativ influence on the technical data.

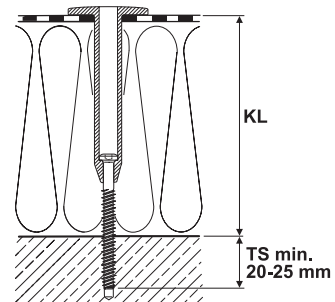
For waterproof fastening TI-screw with pre-assembled sealing washer available on request.

**IF 80-L IF80-S**

**Drill bits**

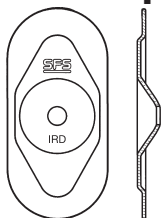


**Required tooling for TI:**  
- Drive shaft ZA 1/4"  
- Socket E 380  
- Depth locator Z 661/IF

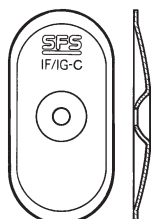


**Required tooling for TI-Z10:**  
- Drive shaft ZA 1/4" x 250 (500)  
- Drive bit SQ3-UNS 1/4" x 24

## Stress plates: Membrane

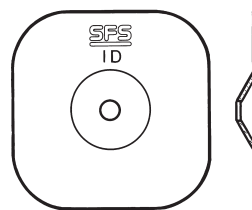


Type Dimensions  
**IRD 82 x 40 mm**



Type Dimensions  
**IF/IG-C 82 x 40 mm**

## Insulation



Type Dimensions  
**ID 70 x 70 mm**

## Screw - sleeve combination

Build-up thickness KL max. (mm)	Sleeve TH-42 / TH-75 TP and TPD L (mm)	Screw	Hammer drill bit Ø x length / working length (mm)
70	40	TI-Z10-6,3 x65	4,8* x 210/150
80	40	75	4,8* x 210/150
90	70	55	4,8* x 210/150
100	70	65	4,8* x 210/150
110	70	75	4,8* x 210/150
120	100	55	4,8* x 260/200
130	100	65	4,8* x 260/200
140	100	75	4,8* x 260/200
150	130	55	4,8* x 260/200
160	130	65	4,8* x 260/200
170	130	75	4,8* x 310/250
180	160	55	4,8* x 310/250
190	160	65	4,8* x 310/250
200	160	75	4,8* x 310/250
210	190	55	4,8* x 310/250
220	190	65	4,8* x 360/300
230	190	75	4,8* x 360/300
240	190	85	4,8* x 360/300
250	230	55	4,8* x 360/300
260	230	65	4,8* x 360/300
270	230	75	4,8* x 360/300
280	230	85	—
290	230	95	—
310	300	45	ZA360
320	300	55	ZA560
330	300	65	—
340	300	75	—
350	300	85	—
360	300	95	—
390	300	125	—
430	300	165	—

\* On hard concrete the 5,2 mm drill bit can be used with out any negativinfluence on the technical data.

## Supporting you through targeted research

To meet your client's demands for long-term security and low-maintenance, you need to have confidence in the fastener products you specify, and their ability to perform with regard to corrosion resistance, speed and consistency of installation and windload resistance. SFS supports your need for reliability and product confidence by testing all fasteners and application tools in our own and independent laboratories, as well as out on site in actual construction situations.



In-house computer controlled dynamic windload simulator.

## Consulting and Sale:

SFS intec AG / FasteningSystems / CH-9435 Heerbrugg / fs.heerbrugg@sfsintec.biz / www.sfsintec.biz/FS

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