

**SFS**

# Concealed fixing solution **TUF-S**



Complementary concealed fixing solutions  
designed for use with HPL or fibre cement panels





## Easy

- No complex undercut hole necessary - simple standard hole sufficient
- No special tools to install necessary
- Holes can be drilled even on site
- Quick and easy installation with the GESIPA Powerbird® Pro

## Secure

- No overtorquing of the TUF-S
- High pullout values with the installed thread
- No unwinding
- Uninstallation via hex head possible
- Approved fastening system with the existing ETA assessment ETA-15/0476



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### 50% less installation time

The TUF-S blind fastener from SFS is superior to previous approaches to the attachment of HPL or fibre cement cladding panels with regards installation and long-term security.

Installation can be performed quickly and securely by one person, without using special tools. Installation time can also be reduced by up to 50% compared with conventional blind attachments. The TUF-S blind fastener can be removed once if required.

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### Optimum security

In addition to an easy and timesaving installation, the TUF-S is a secure solution. The fastener cannot be over-driven during installation. Due to its radial expansion when the mandrel is removed, the partially cut thread becomes wedged in the panel material, generating very high pullout values.

Unwinding due to expansion or vibration is impossible. The sleeve is made of austenitic stainless steel (material DIN 1.4401, grade A4).

Our technical advisers will be pleased to provide you with detailed information. Just give us a call.

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### Important note

- Correct preparation of the panel for installation of the bracket with the TUF-S is essential and should only be carried out by a competent person, off site fabrication methods are proven to minimise panel damages and contribute to a successful installation.
  - Please read the TUF-S installation guide for further details
  - Do not drill deeper than that shown in the table taking into account any tolerance, panel face damage can occur.
  - VHM drill bits have a life expectancy of 200 - 500 holes in fibre cement and 500+ holes in HPL
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# Correct product selection

The below table provides the panels tested with the TUx-S range. Please refer to the relevant technical value sheet for drill depth, fastener embedment and performance. For further information please contact SFS or the panel producer.

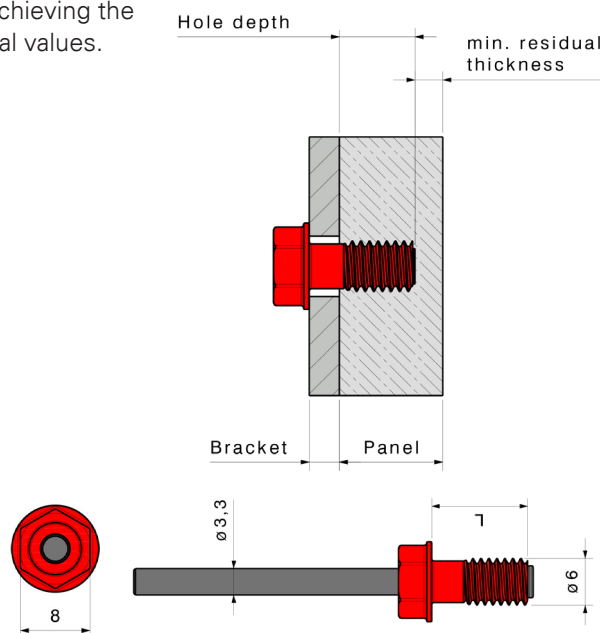
Panel producer	Panel name	TUx-S tested	Panel thickness
Cembrit	Transparent	TUF-S	8mm
	Solid	TUF-S	8mm
	Cover	TUF-S	8mm
	Patina	TUF-S	8mm
	Patina	TUF-S	12mm
Equitone	Natura	TUF-S	8mm
	Natura	TUF-S	12mm
	Linea	TUF-S	8mm
	Materia	TUF-S	8mm
	Pictura	TUF-S	8mm
	Pictura	TUF-S	12mm
	Tectiva	TUF-S	8mm
Fundermax	m.look	TUF-S	9mm
James Hardie	Hardie Board	TUF-S	8mm
Rieder	Oeko Skin	TUC-S	13mm
Rockpanel	FSxtra	TU-S	11mm
Scalamid	Cladding	TUF-S	11mm
SIL	Silbonit	TUF-S	10mm
SVK	Puro +8	TUF-S	8mm
	Colormat +	TUF-S	8mm
Swisspearl	Largo Noblis	TUF-S	8mm
	Largo Noblis	TUF-S	12mm
Trespa	Meteon	TUF-S	8mm
	Meteon	TUF-S	10mm
Valcan	Ceramapanel	TUF-S	8mm
	Ceramapanel	TUF-S	10mm
	Ceramapanel	TUF-S	12mm
Welsh Slate	Cladding	TUF-S	20mm

Selecting the right TUx-S depends on the hanger bracket thickness, achieving the correct embedment depth is essential to achieve the required technical values.

To calculate the correct fixing length for the application:  
 $\text{TUx-S length} = \text{Embedment depth} + \text{Bracket Thickness}$

Available lengths of TUx-S range:

TUF-S-6xL-A4	TU-S-6xL-A4	TUC-S-6xL-A4
7		
7,5		
8		
8,5		
9	9	
10		
11	11	
12		
13	13	
		14





# TUx-S range

TU-S for HPL panels



TUC-S for fibre concrete panels

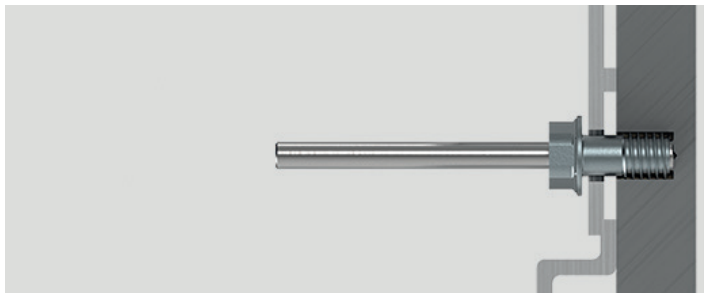


## Installation

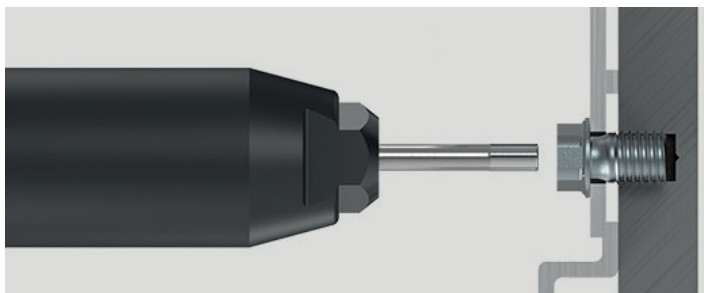
1. Pilot drilling in the HPL or fibre cement panel with the 6 mm dia. HSS blind hole drill with depth stop



2. Position the pre-drilled bracket over the hole in the panel and push through the TUF-S blind fastener



3. Remove the mandrel completely with the riveting tool GESIPA PowerBird® Pro, use nosepiece 17/36 or 17/40



## Accessories

Setting tool GESIPA PowerBird® Pro



Screw gun



6mm HSS drill bit with depth stop





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