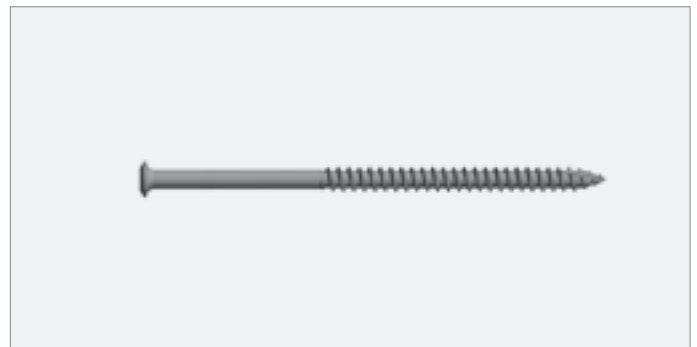
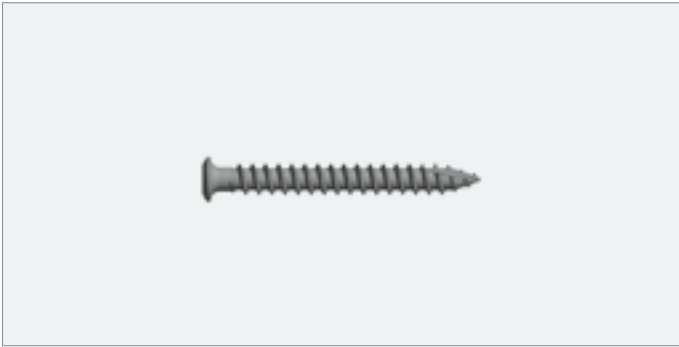


SureFast® SF-RS-6.1 Fasteners



Carbon steel concrete fasteners for flat roofing

Application

For mechanically fixing single-ply and flat roofing systems to concrete and timber decks in combination with appropriate SureFast® components.

For mechanically fixing flat roofing accessories and trims to concrete, and timber materials

Key Features

Thread design developed to provide strong pull-out performance in accordance with EAD 030351-00-0402

TX 25 Drive for controlled installation

Compatible with the SureFast® range of tube washers and pressure plates

ETA Approval and CE Marked.

Specification

Material Steel SAE1022 case hardened

Coating Multiple layer organic

Head type Oval, TX25 recess

Drilling capacity Up to 0.7mm S275 steel

Certification

ETA ETA-15/0406 of 21.05.2025



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SureFast® SF-RS-6.1 Fasteners

Installation Details

Substrates	Dimension limits	Minimum penetration
Cast in-situ concrete	100mm minimum thickness 100mm minimum edge distance	25mm embedment
Pre-formed concrete components	40mm minimum thickness 70mm minimum edge distance	25mm embedment
Plywood	18mm minimum thickness	12mm through underside
Softwood	50mm minimum thickness	35mm embedment

*Industry standard require 15mm through the underside. We recommend 20mm to allow for the stiffening rib found on many steel decks.

Installation and Handling

Installation tool	Variable speed electric screwdriver
Installation drive	Fixfast TX25 drive bar range
Installation speed	1500rpm
Correct installation	Fasteners should be driven within three degrees of perpendicular to the surface of the fastened material. Avoid over-driving, and do not over-tighten.
Handling	Fasteners may have sharp edges, and the use of power tools can be dangerous. Use personal protective equipment. Store fasteners in dry conditions. Inspect each fastener before use and do not use damaged fasteners. Replace any fasteners which appear to have been installed incorrectly.

Performance - Pull-out Values (Axial Load Resistance)

Substrate	Characteristic value
18mm plywood	2.07kN
Concrete C25/30	1.98 kN
Concrete C25/40	2.24 kN
0.7mm steel	116 kN

Steel galvanised S280 GD nominal, Plywood BS EN 1995-1-1 Eurocode 5, OSB BS EN 300 grade 3, Softwood C16
Independently tested to EAD 030351-00-0402
All values are tested and calculated according to Eurocode procedures.

SureFast® SF-RS-6.1 Fasteners

Dimensions

Fastener	Nominal Diameter	Nominal Head Diameter
SF-RS-6.1 x Length	6.1mm	9.1mm

Build-ups

Fastener	Concrete	18mm Plywood/OSB	Softwood
SF-RS-6.1 x 30	0-10mm	N/A	N/A
SF-RS-6.1 x 50	11-25mm	11-20mm	15mm
SF-RS-6.1 x 75	16-50mm	16-45mm	16-40mm
SF-RS-6.1 x 85	26-60mm	26-55mm	26-50mm
SF-RS-6.1 x 100	26-75mm	26-70mm	26-65mm
SF-RS-6.1 x 125	51-100mm	51-95mm	51-95mm
SF-RS-6.1 x 150	76-125mm	76-120mm	76-115mm
SF-RS-6.1 x 175	101-150mm	101-145mm	101-140mm
SF-RS-6.1 x 200	126-175mm	126-170mm	126-165mm
SF-RS-6.1 x 225	151-200mm	151-195mm	151-190mm
SF-RS-6.1 x 250	176-225mm	176-220mm	176-215mm
SF-RS-6.1 x 275	201-250mm	201-245mm	201-240mm
SF-RS-6.1 x 300	226-275mm	226-270mm	226-265mm
SF-RS-6.1 x 350	276-325mm	276-320mm	276-315mm
SF-RS-6.1 x 400	326-375mm	326-370mm	326-365mm
SF-RS-6.1 x 450	376-425mm	376-420mm	376-415mm

Build-ups are shown without Tube Washers or Pressure Plates. When using our Tube Washers, details relating to build-ups and product selection can be found on our website see <https://www.fixfast.com/surefast-product-selector> or for further assistance please contact us.

Durability Class - Years / Environment - Service life estimates based on material performance in defined environments

	Interior	Semi-interior	Rural	Urban	Industrial / Coastal	Marine	Swimming pools & Chemical plants
Code	C1	-	C2	C3	C4	C5	-
Multiple Layer Organic coated steel	25	20	12	N/A	N/A	N/A	N/A

Environment Conditions are defined in Fixfast's Terms and Conditions of Warranty.

Usage Conditions

1. Application

Fixfast fasteners are suitable for use only with the substrates, materials and system components specified in the relevant product datasheet and within the stated performance limits.

The fixing substrate must be solid, free from perforations and in sound condition. Materials in contact with the fastener must be chemically inert and suitable for the intended application.

Fasteners may be used with insulation materials such as PUR, PIR, EPS, XPS and mineral wool provided such materials are chemically inert, dry and compatible with the relevant roofing or building envelope system.

2. Installation

Fasteners must be stored in dry conditions and protected from corrosion, contamination or damage prior to installation.

Installation must be carried out in accordance with Fixfast installation instructions and recognised industry good practice by suitably trained and competent personnel. Fasteners must not be cut, altered or otherwise modified.

3. Design Responsibility

Fastener selection and fixing patterns must be determined by the project designer based on structural load calculations in accordance with the relevant Eurocode standards, Building Regulations and recognised Codes of Practice.

Compatibility of materials forming part of the building envelope system remains the responsibility of the system designer or specifier.

4. Environmental Conditions

Fasteners are suitable for use in residential, commercial and industrial buildings where surrounding materials are chemically inert and the environment is not subject to conditions that would adversely affect the performance of the fastener material.

Classification of environmental conditions, including internal humidity classification in accordance with BS 5250, temperature range and external atmospheric corrosivity in accordance with ISO 9223, shall be determined by the project designer or specifier.

The selection and suitability of fastener materials in relation to environmental exposure, including the effects of localised conditions or microclimates and the intended design life of the construction, remain the responsibility of the project designer or specifier.

Environments containing chlorides or other aggressive substances, including but not limited to swimming pool buildings and roof voids or enclosed spaces above such areas where chlorinated vapours may accumulate, may present a risk of accelerated corrosion or stress corrosion cracking.

Such environments shall be subject to specific assessment by the project designer, and only products explicitly designated by the manufacturer as suitable for these conditions shall be used.

Guidance for Specifiers – Typical Material Selection

The table below provides general guidance only and does not replace project-specific assessment.

Fastener Material	External Environment	Internal Environment
Carbon Steel (coated)	C1 - C2	HC1 - HC3
A2 Stainless Steel (1.4301 / 304)	C1 - C3	HC1 - HC4
A4 Stainless Steel (1.4401 / 316)	C1 - C4	HC1 - HC4
HCR Stainless Steel (1.4529 / equivalent)	C1 - C5	HC1 - HC5

5. Performance Data

Performance data published by Fixfast is derived from laboratory testing conducted under controlled conditions. Actual in-service performance may vary depending on substrate characteristics, installation practice and environmental exposure.

Fixfast fasteners provide mechanical attachment only. The performance, suitability and durability of the complete building envelope system remain the responsibility of the system designer and installer.