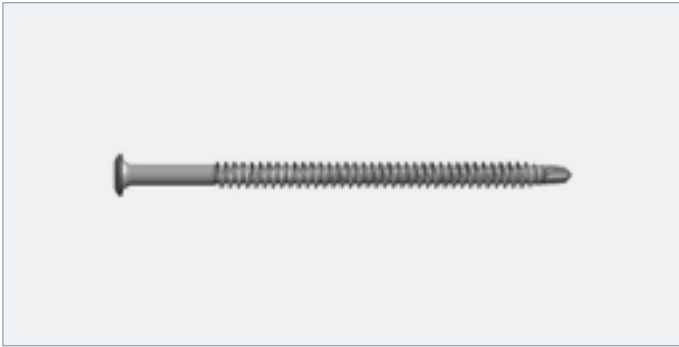


SureFast® SF-RS-5.8 Fasteners



Carbon steel self-drilling fasteners for flat roofing, and fixing to thin steel and timber

Application

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

For mechanically fixing flat roofing accessories and trims to thin steel and timber materials

For mechanically fixing timber battens and timber-like materials to thin steel

Key Features

Thread geometry tested for pull-out resistance in accordance with EAD 030351-00-0402

Drillpoint suitable for penetration of metal decks up to 2 x 1mm

Compatible with both metal and timber substrates

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

ETA Approval and CE Marked.

Manufactured to controlled tolerances in accordance with Fixfast's production standards

Specification

Material	Steel SAE1022 case hardened
Coating	Multiple layer organic
Head type	Low profile oval style, TX25 recess
Drilling capacity	2 x 1.0mm S275 steels

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Installation Details

Substrates	Thickness limits	Minimum penetration
Thin steel	0.7mm – 2 x 1.0mm thickness	20mm through underside*
Plywood / OSB decks	18mm minimum thickness	12mm through underside
Timber board decks	25mm minimum thickness	12mm through underside
Softwood	50mm minimum thickness	35mm embedment

*Industry standard required 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.

Dimensions

Fastener	Nominal Diameter	Nominal Drill Point Width	Nominal Head Diameter
SF-RS-5.8 x Length	5.8mm	3.1mm	9.1mm

Build-ups

Fastener	0.7mm Steel	18mm Plywood/OSB	25mm Timber	38mm Timber
SF-RS-5.8 x 25	3-5mm	N/A	N/A	N/A
SF-RS-5.8 x 40	3-20mm	0-10mm	0-3mm	0-5mm
SF-RS-5.8 x 55	16-35mm	16-25mm	16-18mm	16-20mm
SF-RS-5.8 x 65	26-45mm	26-35mm	26-28mm	26-30mm
SF-RS-5.8 x 69	16-49mm	16-39mm	16-32mm	16-34mm
SF-RS-5.8 x 75	16-55mm	16-45mm	16-38mm	16-40mm
SF-RS-5.8 x 85	15-65mm	15-55mm	15-48mm	15-50mm
SF-RS-5.8 x 95	25-75mm	25-65mm	25-58mm	25-60mm
SF-RS-5.8 x 105	35-85mm	35-75mm	35-68mm	35-70mm

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SureFast® SF-RS-5.8 Fasteners

Build-ups - Continued

Fastener	0.7mm Steel	18mm Plywood/OSB	25mm Timber	38mm Timber
SF-RS-5.8 x 115	45-95mm	45-85mm	45-78mm	45-80mm
SF-RS-5.8 x 125	55-105mm	55-95mm	55-88mm	55-90mm
SF-RS-5.8 x 135	65-115mm	65-105mm	65-98mm	65-100mm
SF-RS-5.8 x 145	50-125mm	50-115mm	50-108mm	50-110mm
SF-RS-5.8 x 150	55-130mm	55-120mm	55-113mm	55-115mm
SF-RS-5.8 x 175	80-155mm	80-145mm	80-138mm	80-140mm
SF-RS-5.8 x 200	105-180mm	105-170mm	105-163mm	105-165mm
SF-RS-5.8 x 250	155-230mm	155-220mm	155-213mm	155-215mm
SF-RS-5.8 x 300	205-280mm	205-270mm	205-263mm	205-265mm

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.

Performance - Pull-out Values (Axial Load Resistance)

Substrate	Characteristic value
0.7mm steel	1.43 kN
0.9mm steel	1.93 kN
1.2mm steel	2.87 kN
18mm plywood	2.10 kN
18mm OSB	1.58 kN
Softwood 38mm Embedment	4.06 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.

Certification

ETA ETA-15/0406 of 2019-12-09



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Durability Class - Years / Environment

	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.