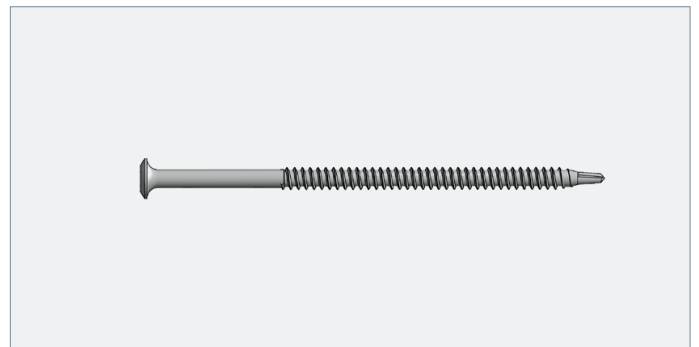
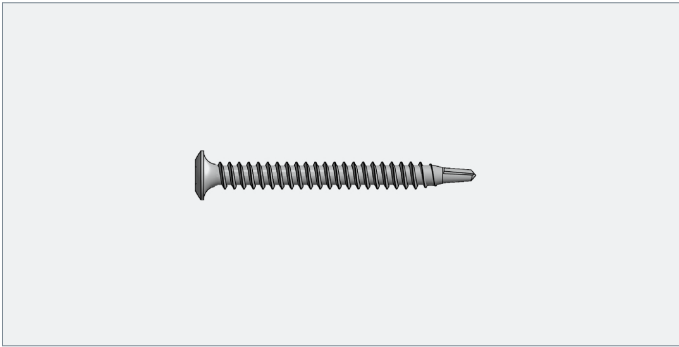


# SureFast® Stainless Steel SF-RS-SSA4-4.8 Fasteners



A4 (316 Grade) Stainless steel self-drilling fasteners for flat roofing.

## Application

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

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

For mechanically fixing timber battens and timber-like materials to thin metal substrates.

## Key Features

High resistance to corrosion - suitable for use in marine environments

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.

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

## Specification

**Material** 1.4401 stainless steel (316M), with carbon steel case hardened welded point

**Coating** Multiple layer organic

**Head type** Low Profile Oval, TX25 recess

**Drilling capacity** Max 2 x 1.0mm S275 steel sheet

## Certification

**ETA** ETA-15/0406 of 21.05.2025



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# SureFast® Stainless Steel SF-RS-SSA4-4.8 Fasteners

## Installation Details

| Substrates          | Thickness limits            | Minimum penetration    |
|---------------------|-----------------------------|------------------------|
| Thin Steel          | 0.7mm – 2 x 1.0mm thickness | 17mm through underside |
| Plywood / OSB decks | 18mm minimum thickness      | 17mm through underside |
| Timber board decks  | 25mm minimum thickness      | 15mm through underside |
| Softwood            | 50mm minimum thickness      | 35mm embedment         |

## Installation and Handling

|                             |  |
|-----------------------------|--|
| <b>Installation tool</b>    | Variable speed electric screwdriver  |
| <b>Installation drive</b>   | Fixfast TX25 drive bar range   |
| <b>Installation speed</b>   | 1500rpm  |
| <b>Correct installation</b> | Fasteners should be driven within three degrees of perpendicular to the surface of the fastened material. Avoid over-driving, and do not over-tighten.   |
| <b>Handling</b>             | 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 |
|--------------|----------------------|
| 0.7mm steel  | 1.08 kN              |
| 0.9mm steel  | 1.45 kN              |
| 1.2mm steel  | 2.24 kN              |
| 18mm plywood | 1.77 kN              |
| 18mm OSB     | 1.37 kN              |
| Softwood     | 3.89 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® Stainless Steel SF-RS-SSA4-4.8 Fasteners

## Dimensions

| Fastener                | Nominal Diameter | Nominal Drill Point Width | Nominal Head Diameter |
|-------------------------|------------------|---------------------------|-----------------------|
| SF-RS-SSA4-4.8 x Length | 4.8mm            | 3.0mm                     | 9.1mm                 |

## Build-ups

| Fastener             | 0.7 - 1.2mm metal | 18mm plywood/OSB | 38mm timber |
|----------------------|-------------------|------------------|-------------|
| SF-RS-SSA4-4.8 x 40  | 0-21mm            | 0-5mm            | 0-5mm       |
| SF-RS-SSA4-4.8 x 60  | 6-41mm            | 6-25mm           | 6-25mm      |
| SF-RS-SSA4-4.8 x 80  | 9-61mm            | 9-45mm           | 9-45mm      |
| SF-RS-SSA4-4.8 x 100 | 29-81mm           | 29-65mm          | 29-65mm     |
| SF-RS-SSA4-4.8 x 120 | 49-101mm          | 49-85mm          | 49-85mm     |
| SF-RS-SSA4-4.8 x 160 | 59-141mm          | 59-125mm         | 59-125mm    |
| SF-RS-SSA4-4.8 x 200 | 99-181mm          | 99-165mm         | 99-165mm    |

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     | -                                |
| A4 stainless grade 316 | 40       | 40            | 40    | 40    | 30                   | 25     | n/a                              |

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

Values tested to ETA and Eurocode procedures.

# 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.