



SureFast® SF-T-LP Low Profile Tube Washers

Tube Washers for Termination Bar and Sika Trocal® plate attachment.

Application

- For mechanically fixing membrane and insulation to steel, timber and concrete decks in combination with appropriate SureFast® fasteners
- For mechanically fixing Sika Trocal® 'S' membrane, in combination with appropriate SureFast® fasteners, SF-T-LPP plug and Sika Trocal® pressure plates

Key Features

- Practically eliminates thermal transmittance
- Unique angled tip for ease of penetration through membrane.
- Manufactured from high quality polypropylene
- Purpose designed and precision manufactured by Fixfast in the UK

Technical Data

Document reference

FF P SF-T-LP 001

SF-T-LP Low Profile Tube Washers

Specification

Material	High quality virgin polypropylene
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Installation and handling

Correct installation	This product is part of the SureFast fastening system, and must be used with appropriate SureFast screws. See page 3 for further details.
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

Code	Washer diameter (mm)	Tube diameter (mm)		Tube length (mm)
		OD	ID	
SF-T-LP x 40	24.6	13.6	9.6	40
SF-T-LP x 75				75
SF-T-LP x 100				100
SF-T-LP x 125				125
SF-T-LP x 150				150
SF-T-LPP	Low profile plug	n/a	n/a	n/a

Performance

Pull-over value (fastener to tube washer connection)

	Characteristic Value
SF-T-LP	1.55 kN

Other figures and specific testing are available on request. For more information please contact Fixfast.

Fastener Compatibility

SF-RS-4.8	SureFast Roofing Screw
SF-RS-5.8	SureFast Roofing Screw
SF-RS-6.1	SureFast Roofing Screw
SF-RS-SSA4-4.8	SureFast A4 Stainless Steel Roofing Screw
SF-RS-SSA4-6.1	SureFast A4 Stainless Steel Roofing Screw
SF-RS-SS-HCR-5.8	SureFast High Corrosion Resistance Stainless Steel Roofing Screw

For more information on the above fasteners, please see separate data sheets, or contact Fixfast.

Durability class

For information on durability and warranty, refer to the specific fastener datasheet

Usage conditions

The tubes are for use with decks and substrates shown in this datasheet within the limits stated. The fixing area must be solid with no perforations and must be chemically inert and dry.

The tubes are for use with PUR/PIR/EPS/XPS and Mineral Wool insulation provided that it is chemically inert and dry.

The tubes must be stored with due care and must not be allowed to suffer any deterioration prior to installation.

Fixing patterns must be established on the basis of a wind load calculation to BS EN 1991-1-4, and any National Annex. It is the designer's responsibility to take into account all loading criteria and apply appropriate safety factors in accordance with performance data issued by Fixfast. The design of the building and application where the tube is to be used must be to the minimum standard of mechanical performance laid down from time to time in the appropriate Codes of Practice or Building Regulations, SPRA Design Guide, BRUFMA Guidelines etc.

Tubes are suitable for use with naked flame for hot melt and bitumen applications, insofar as the membrane itself should not be subject to excessive heat.

Where the tube will be in contact with sealants, they should be an approved A-grade for mastic and low-modulus neutral-cure for silicone. Any other material in contact with the fastener must be approved in SPRA guidelines for use within a single-ply application and must be chemically inert and dry. Such materials and their effect on the fasteners' performance are not the responsibility of Fixfast.

Fixfast products must be used as a complete system with tools and accessories as recommended, according to Fixfast's recommended procedures and according to good roofing practice as detailed by the appropriate approved body for the type of work. They must be used only in conjunction with other Fixfast products where such other products are available. They must not be cut, altered or modified.

The waterproofing layer must remain intact and impermeable throughout the installed life of the tube. The stated performance of the tube will only apply while there is no damage or degradation to the materials it is associated with in the application, and as long as there is no change to the tube's immediate environment.

Performance data is applicable to use with new materials as detailed in a new-build application. Refurbishment or extensions/additions/abutments may be considered new-build if all materials used in conjunction with the tubes are themselves new and unaffected and uncontaminated by any previous installation.

The tubes are suitable for use in buildings with an internal temperature range of -20°C to 50°C. These environmental conditions must remain unaffected throughout the installed life of the fastener, and any change will invalidate the performance data for the tube. The tubes will remain UV stable provided that are completely covered by the membrane, so as to be rendered unaffected by external conditions.

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ISO 14001: 2004
BS OHSAS 18001: 2007