

# WX-48T x L

## Fastener for Sika-Trocal<sup>®</sup> S3 Disc Tube/S3 Disc and S1 Disc.

### Product Description

Carbon steel fastener for mechanical fastening of Sika-Trocal<sup>®</sup> S and SG waterproofing membranes onto timber and steel substrates.

### Uses

The WX-48T x L fastener is used in combination with the Sika-Trocal<sup>®</sup> S3 Disc Tube and S3 Disc for the mechanical fastening of Sika-Trocal<sup>®</sup> S and SG waterproofing membranes to 0.7mm steel and 18mm Oriented Strand Board and Plywood substrates. The WX-48T x L fastener can also be used with the S1 Disc for the same purpose.

### Characteristics / Advantages

- Ease of application
- Self tapping fastener, pre-drilling is not required (up to 2 x 0.7mm steel & 18mm OSB and Plywood)
- Recyclable

### Tests

#### Approvals / Standards

- Quality management system EN ISO 9001

### Product Data

#### Form

#### Appearance

Surface: smooth shank with threaded area

#### Storage

#### Storage Conditions

The WX-48T x L shall be stored in dry conditions.

#### Shelf-Life

The WX-48T x L does not expire during correct storage.

### Technical Data

#### Material Basis

Carbon steel

#### Surface

Smooth

#### Thread

4.8mm diameter high/low thread form

#### Head type/drive

- Head diameter 9.0mm
- Head height 3mm
- Internal Drive T25

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**Corrosion resistance** 15 cycles Kesternich test (concentration SFW 2.0 S in accordance with DIN 50018) according to ETAG 006 - D.3.1.

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<b>Product range</b>	<b>Wx-48T x length</b>	<b>Packaging Unit (pcs.)</b>	<b>Weight / packaging (kg)</b>
	WX-48T x 60	250	1.55
	WX-48T x 80	250	1.99
	WX-48T x 100	250	2.22
	WX-48T x 120	250	2.34
	WX-48T x 140	200	2.74
	WX-48T x 160	100	1.56
	WX-48T x 180	100	1.94
	WX-48T x 200	100	2.22

## System Information

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**System Structure** Ancillary Products:

- Sika-Trocal<sup>®</sup> S3 Disc Tube & cap
- Sika-Trocal<sup>®</sup> S3 Disc
- Sika-Trocal<sup>®</sup> S1 Disc

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## Application Conditions / Limits

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**Temperature** The use of the WX-48T x L is limited to geographical locations with average monthly minimum temperatures of -20°C. Permanent ambient temperature during use is limited to +50 °C.

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## Installation Instructions

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**Installation method** The WX-48T x L must be installed in accordance with Sika Limited instructions for Sika-Trocal systems. Appropriate tooling must be used (Torx 25 bit).

- The penetration must be no less than 20mm through the underside of the substrate

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**Notes on Installation / Limits**

Limitations on product use:

Maximum product design loads for use in wind uplift calculations with the Sika-Trocal<sup>®</sup> Disc System;

- WX-48T x L, Sika-Trocal<sup>®</sup> S3 Disc Tube and Sika-Trocal<sup>®</sup> S3 Disc Sika combinations for steel, plywood and Oriented Strand Board timber decking - 0.4kN
- WX-48T x L and Sika-Trocal<sup>®</sup> S1 Disc combinations for steel, plywood and Oriented Strand Board timber decking - 0.4kN

Minimum deck thickness and grades referring to the above;

- Steel deck, yield Z28 minimum thickness - 0.7mm nominal without perforations
- Plywood to BS5268: part 2:2002 minimum thickness -18mm
- Oriented Strand Board to BS EN 300:1997 minimum thickness -18mm

Pullout Testing;

Pullout testing should be undertaken by Rawlplug Limited to ensure that the minimum criterion is met before any installation. Pullout testing is undertaken for the following applications:

- The Sika-Trocal<sup>®</sup> S & SG membrane is mechanically fastened to any existing (refurbishment) steel, plywood and Oriented Strand Board timber deck.

General;

WX-48T x L fasteners are only to be used in applications presenting a slight risk of corrosion and condensation in accordance with FM Approval Standard Class 1 Roof Covers No. 4470 April 1986 and ETAG 06 "Guideline for European Technical Approval of systems of mechanically fastened flexible roof waterproof membranes, edition November 1999 section 6.3.7.1 'Resistance to corrosion of metallic fastenings'". Examples include above rooms/areas with low to medium humidity, in non-aggressive atmosphere and/or in an environment not harmful to metallic fasteners.

For timber deck applications where the wood / deck / timber construction has been treated with preservatives containing copper / chromium / arsenic (CCA) compositions, the moisture content of the timber must not exceed 25% of the original material weight.

WX-48T x L fasteners must not be over tightened and Installation works must be carried out only by Sika-Trocal Licensed Contractors.

WX-48T x L fasteners must not be installed:

- or be in contact with materials that may have a harmful effect on the fastener or the connection. Such materials would include certain metallic sheeting materials (excluding thin foils less than 0.2mm thick) consisting of aluminium and copper and also phenolic foam insulation.
- in an application with exposed soffits within 400m of a marine environment.
- In an application where water is present in the roofing system.
- In an application where the humidity class is above 3 (*BS-5250 Control of Condensation in Buildings*)

Temperature limits for installation:

Substrate temperature: -20°C min. / +50°C max.

Ambient temperature: -20°C min. / +50°C max.

Special measures may be compulsory for installation below +5°C ambient temperature due to safety requirements in accordance with national regulations.

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**Legal Notes**

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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# Roofing

<b>Value Base</b>	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
<b>Local Restrictions</b>	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
<b>Ecology, Health and Safety Information</b>	The product does not fall within the EC-regulation of hazardous goods. As a result, a material safety data sheet following EC-Guideline 91/155 EWG is not needed to bring the product to the market, transport or use it. The product does not damage the environment when used as specified.
<b>Protective Measures</b>	Regulatory safety requirements must be observed.
<b>Transportation Class</b>	The product is not classified as hazardous good for transport.
<b>Disposal</b>	The material is recyclable. Any disposal must be according to regulatory requirements.



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Certificate No. EMS 4308



Certificate No. FM 12504