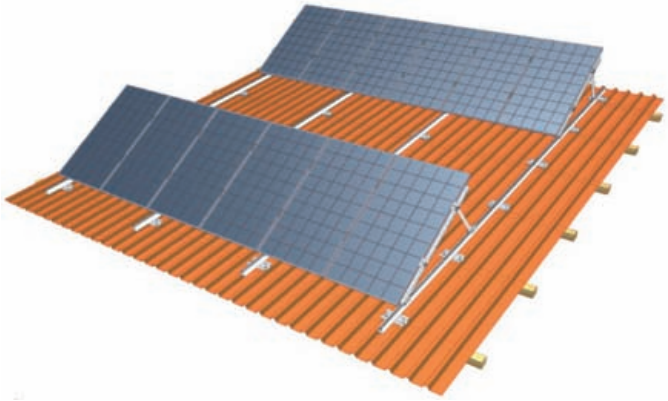
# CompactVario



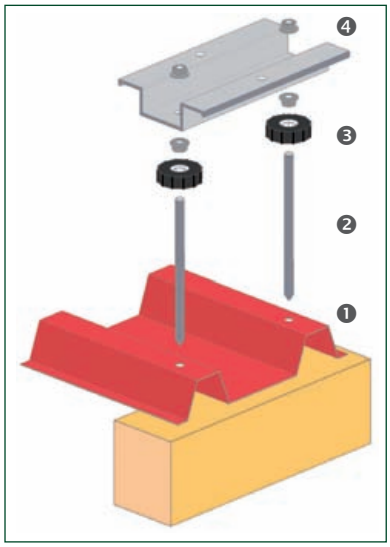
In addition to the following mounting instructions, additional information may be found for individual components and systems at www.schletter.us. Brochures, checklists, installation videos and additional contact information can be found on this site.

## System Overview

Due to the roof pitch on classic trapezoidal sheet metal or Eternit roofs, it is recommendable to elevate the modules according to the optimum irradiation angle of the sun. In order to optimize module performance as well as provide proper load distributionm a combination of flat roof attachments, module bearms, and elevation triangles are installed, resulting in the CompactVario system. By selecting CompactVario, the system is individually tailored to the site installation.

The following mounting suggestions apply for a trapezoidal sheet metal roof inclined to the south with a substructure (purlins) at a right angle. In the following example the framed modules are elevated with sufficient module distances and desired inclination with shade considerations incorrperated. In this example, the Schletter CompactVario system is combined with Schletter's FixT™ trapezoidal sheet metal attachment component.

## Installing the FixT




FixT on wooden purlins

**❶Pre-drill attachment locations**

| Top of corrugation | wooden purlins |
|---|---|
| with hanger bolts M12 12mm | 8.5mm / 0.33” |
| with hanger bolts M10 10mm | 7.0mm / 0.28” |

**❷Insert hanger bolts**

**Regular screwing depth**
with hanger bolts M12 100mm / 4”
with hanger bolts M10 60mm / 2.36”

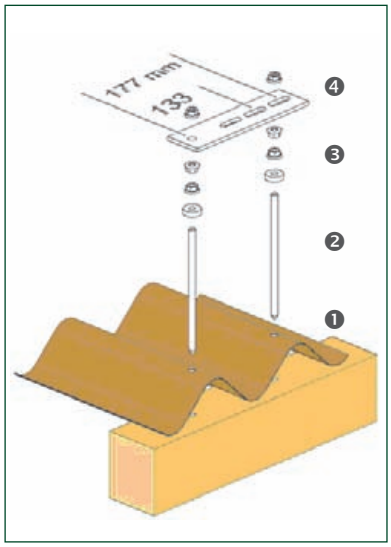
**❸Fasten by hand tightening the sealing gaskets with integrated flange nut.**

Besides the usual FixT-sealing attachment which is used for corrugation top widths starting from 20mm, an EPDM – sealing rubber for corrugation tops up to 20 mm is available.

FixT-sealing attachment from about 20 mm (¾”)

EPDM-sealing 20 mm or less

**❹Put on head profile and screw upper flange nut**




Double corrugated roof set on wooden purlins

**❶Pre-drill attachment locations**

| Top of corrugation | wooden purlins |
|---|---|
| with hanger bolts M12 14mm | 8.5mm / 0.33” |
| with hanger bolts M10 13mm | 7.0mm / 0.28” |

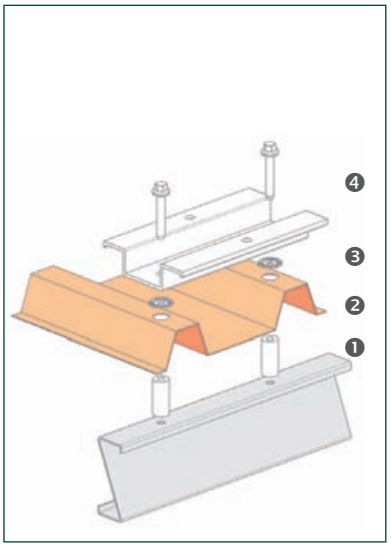
**❷Insert hanger bolts**

**Regular screwing depth**
with hanger bolts M12 100mm / 4”
with hanger bolts M10 60mm / 2.36”

**❸Tighten sealing gasket with flange nut. Sealing rubber must be lightly pressed.**

EPDM-sealing

**❹Apply mounting plate according to the corrugation top distance and screw it with the flange nuts**



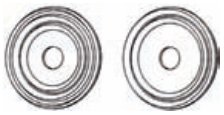

FixT on steel purlins

**❶Pre-drill attachment locations**

| Top of corrugation | steel purlins |
|---|---|
| Size of distance tube | up to 4mm 6.8mm / 0.26” |
| (20 or 16 mm customize) | up to 11mm 7.0mm / 0.27” |
| | from about 11mm 7.2mm / 0.28” |

**❷Insert distance tube**

**❸Place distance-tube-sized sealing gaskets onto the trapezoidal sheet – view from above:**



20 mm 16 mm

**❹Apply hat section and fix it using M8 screws.**

**Screw up to the stop.**
Sealing washer has to be slightly pressed.

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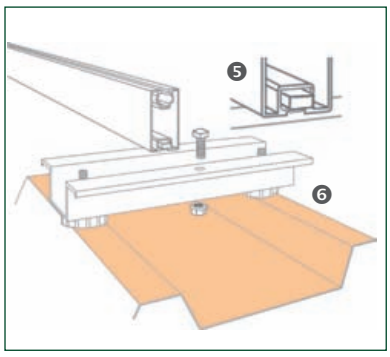
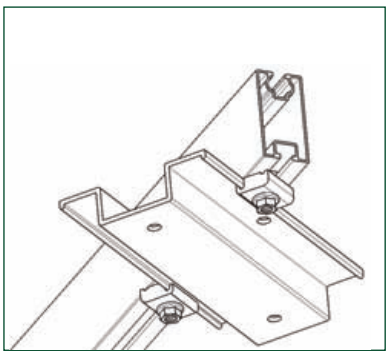



**❺Insert square head screw M10x25 in the provided groove of the bearing rail and arrange it according to the holes of the cap profile**

**❻Arrange the rails, if necessary lengthen them with connectors and screw them with flange nut M10**

**Besides the direct screwing at the holes of the cap profile, the bearing profiles can also be clamped (440157-40) in a variable manner at the sides. This makes an optimum alignment and maximum yields possible.**

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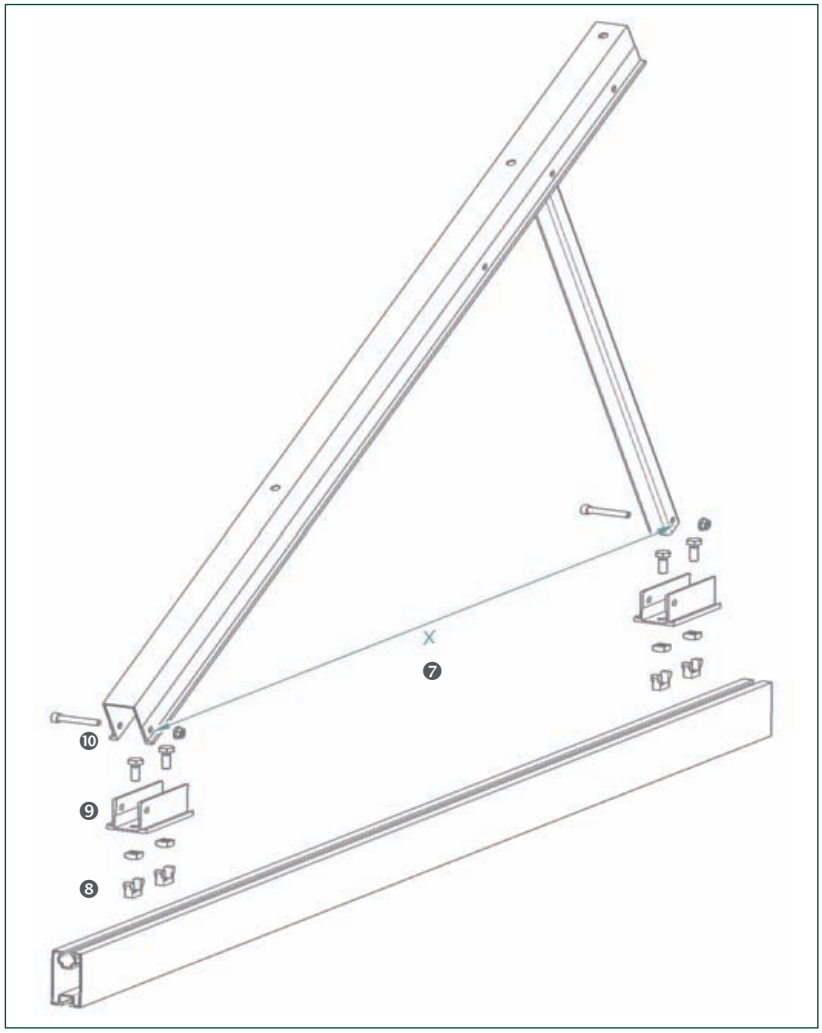



**7 Determine support fastening spots**

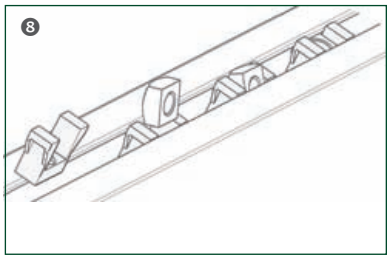
**Measurement X with support series 07:**
Light 1.0 m = 811 mm / 3.28'
Light 1.3 m = 965 mm / 4.25'
Light 1.5 m = 1360 mm / 5'
Profi 1.5 m = 1360 mm / 5'

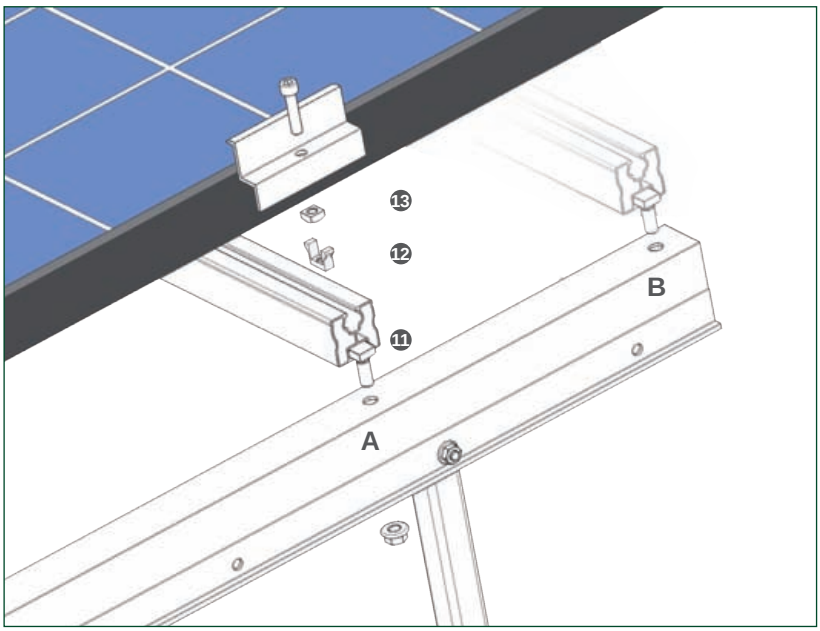
**8 Insert click component with square nut M10 accordingly**

**9 Fasten metal fittings with hexagon screws M10x20**

**10 Unfold supports and mount them by means of socket head screws M8 and self-locking nut M8.**

**Screw all support bolts in a dead stop orientated manner — maximum of 5Nm**




**11 For rail mounting place the square head M10 screw in the groove in the and tighten securly at the holes of the support with flange M10 nut.**

**Depending on module height and support, Position A or B must be selected for the upper bearing beam according to chart below.**

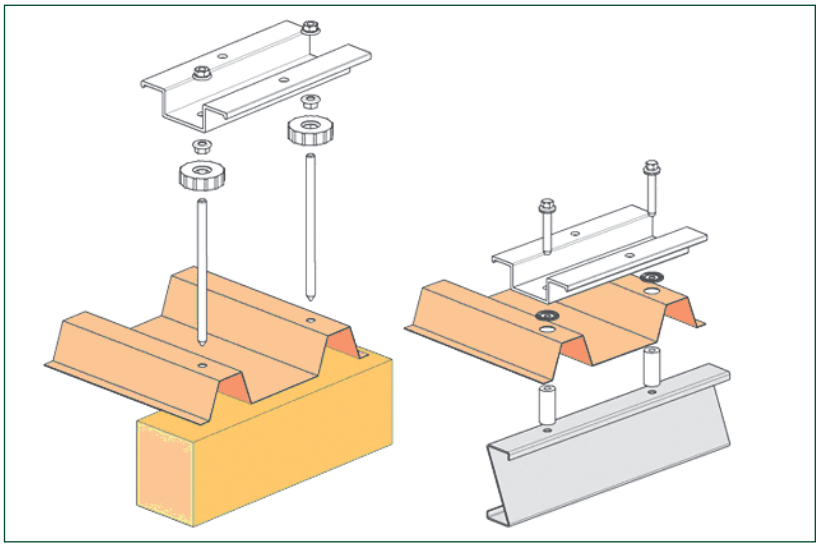
| | Light 10 | Light 13 | Light/Profi 15 |
|---|---|---|---|
| Pos. (A) | 600-750mm | 1000-1200mm | 1200-1400mm |
| Pos. (B) | 750-1050mm | 1200-1600mm | 1400-1800mm |

**12 For module mounting insert the Klick™ components in the upper grooves of the bearing beams followed by square M8 nuts. The green-colored Klick components slide into rail groove, securing M8 for ease of installation.**

**13 Tighten modules with the middle and end clamps using socket head screws (M8 and snap ring). Rapid Clamps are pre-assembled for quick snap-in installation. See Rapid Clamp installation guide for additional details.**

## Attachment Components

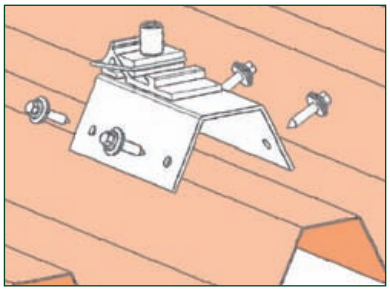
In combination with Schletter's numerous attachment components, individual solutions can be created.



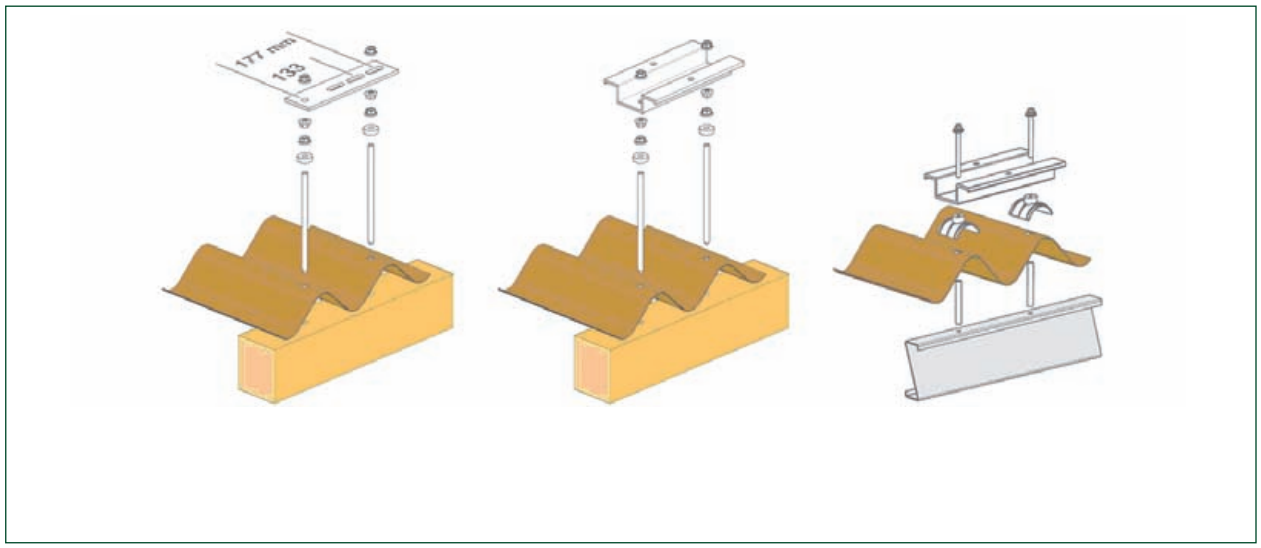
FixT size 3 with wooden purlins



FixT size 3 with steel purlins



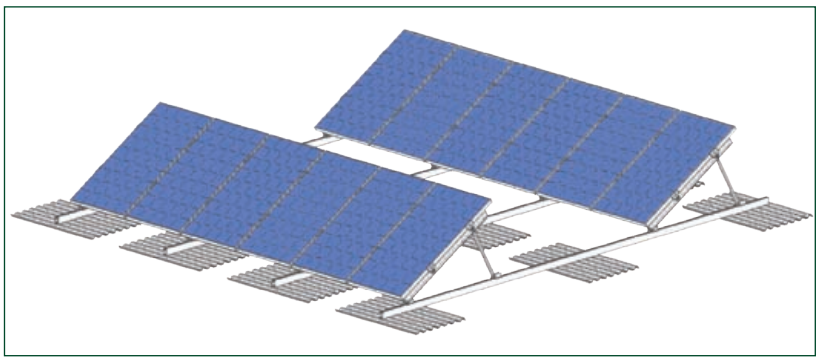
Fix2000™KlickTop™




Double corrugated roof set

FixE size 3 with wooden purlins

FixE size 3 with steel purlins



Shown to the right, the CompactVario System in combination with SolRack makes an easy-to-install system on flat roofts. Contact your Schletter representative for more mounting solutions.

Further information on the CompactVario System is available on our website: **www.schletter.us**.
For downloads, click on click on the "Brochures" link in top navigation.





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