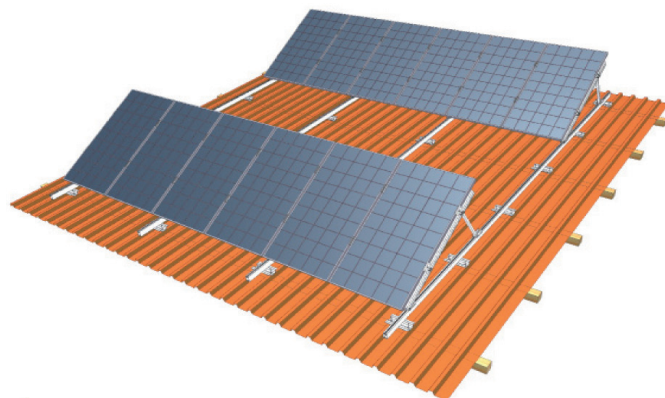


CompactVario

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.



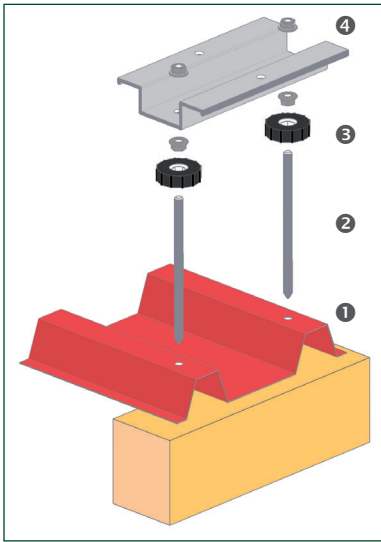
System Overview

Due to the roof pitch on classic trapezoidal sheet metal 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 distribution a combination of flat roof attachments, module beams, 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 incorporated. 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

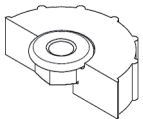
❶ Pre-drill attachment locations

Top of corrugation	wooden purlins
with hanger bolts M12 12mm	8.5mm / 0.33"
with hanger bolts M10 10mm	7.0mm / 0.28"
with hanger bolts M8 8mm	5.6mm / 0.22"

❷ Insert hanger bolts

❸ Fasten 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.

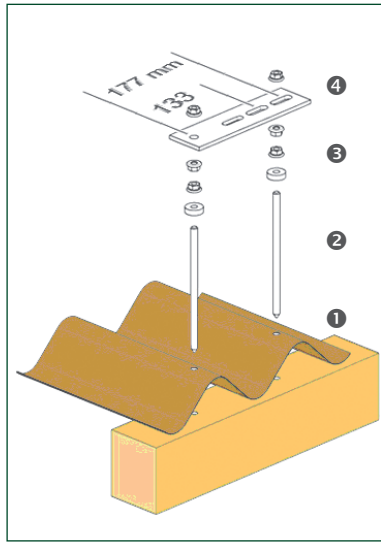


FixT-sealing attachment
from about 20 mm (¾")



EPDM-sealing
20 mm or less

❹ Place Fix T and screw upper flange nut



Double corrugated roof set on wooden purlins

❶ Pre-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"
with hanger bolts M8 8mm	5.6mm / 0.22"

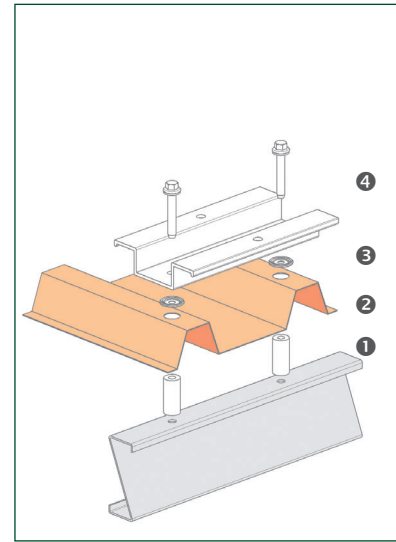
❷ Insert hanger bolts

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



EPDM-sealing

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



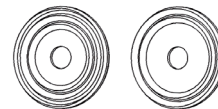
FixT on steel purlins

❶ Pre-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"

❷ Insert distance tube

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

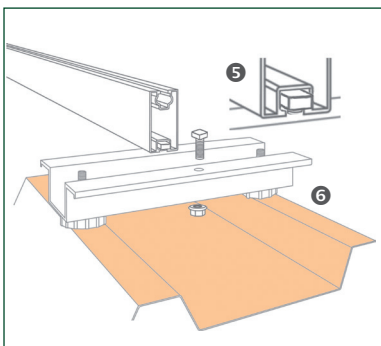


20 mm

16 mm

❹ Apply hat section and fix it using M8 screws.

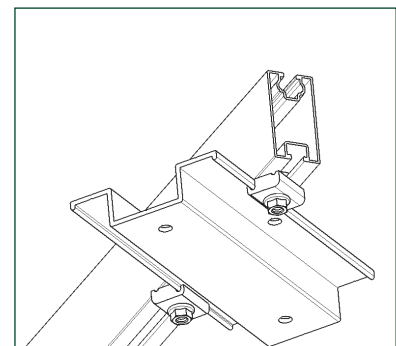
Screw up to the stop.
Sealing washer has to be slightly pressed.

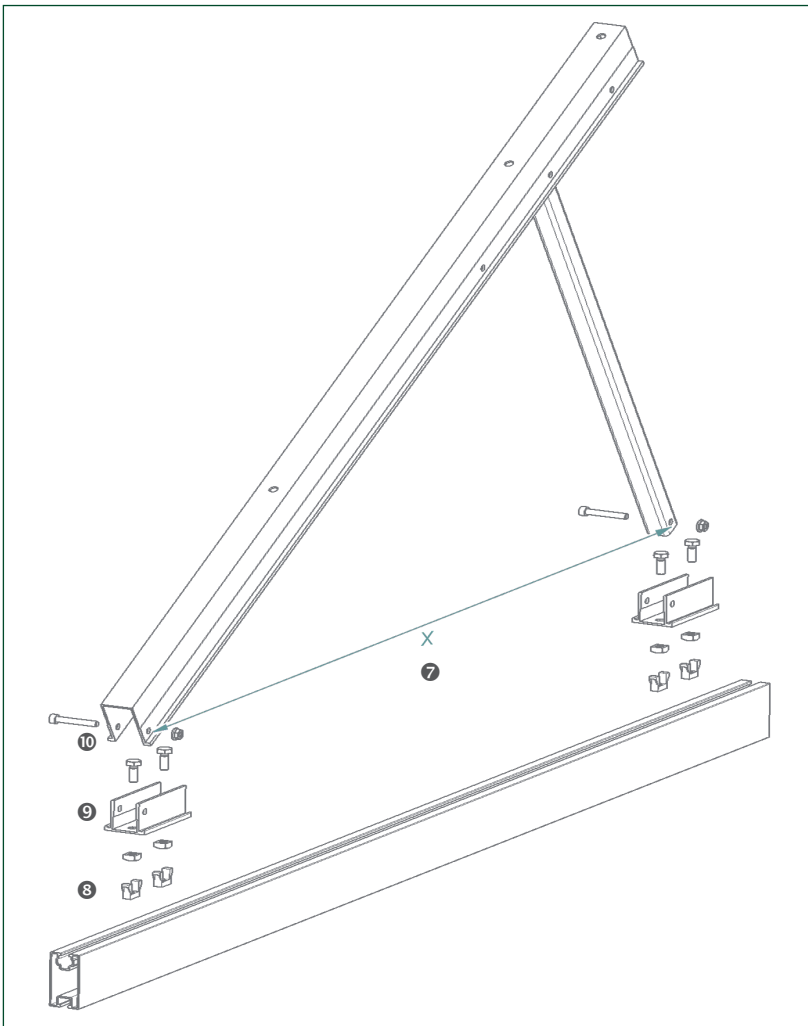


❺ Insert square head screw M10x25 in the provided groove of the bearing rail and arrange it according to the holes of the cap profile

❻ Arrange 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.





7 Determine attachment locations for supports as per structural drawings.

Measurement X with support series 07:

$J_{gr} / 1k$; 743 k k - 2,03%

$J_{gr} / 1,3k$; /14. k k - 3%

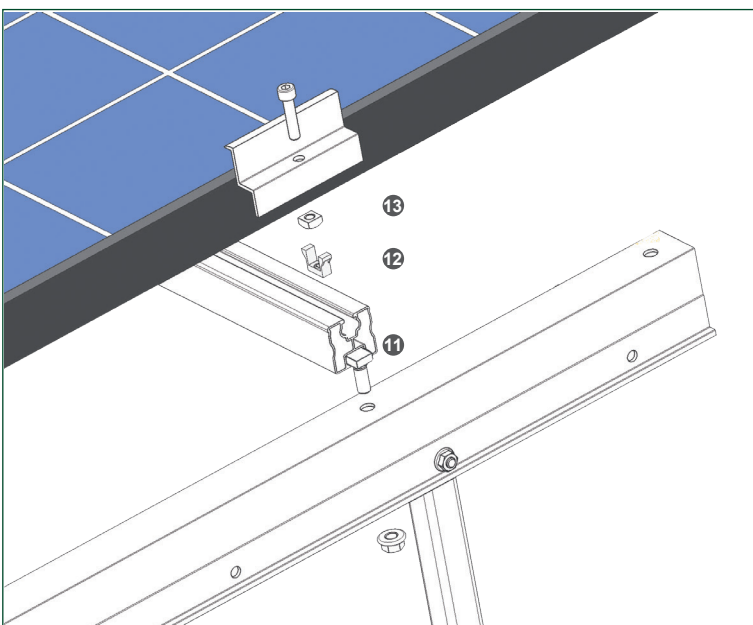
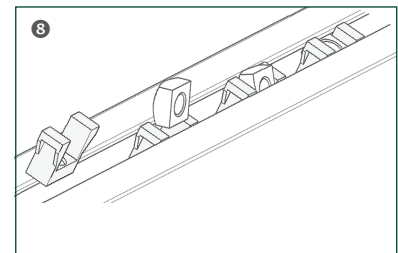
$N_{gr} / 1,3k$; /14. k k - 3%

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



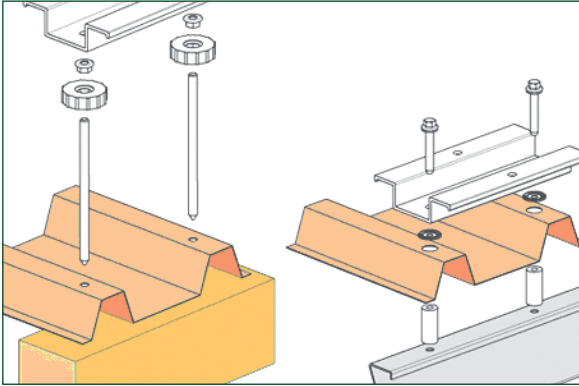
11 For rail mounting place the square head M10 screw in the groove in the and tighten securely at the holes of the support with flange M10 nut.

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.

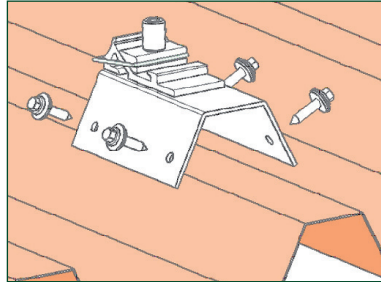
Attachment Components

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

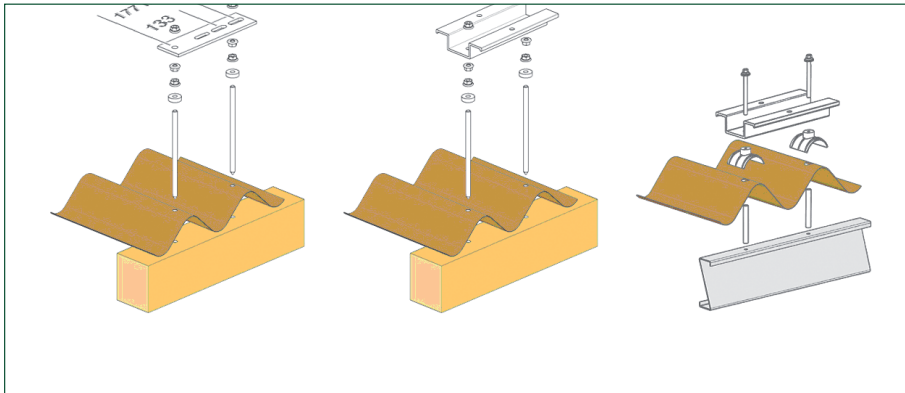


FixT size 3 with wooden purlins

FixT size 3 with steel purlins



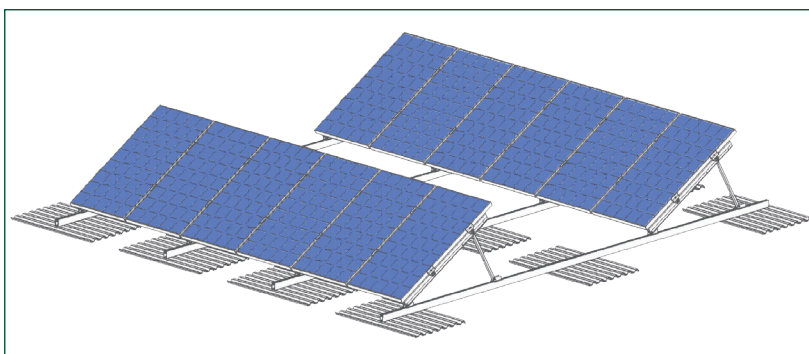
Fix2000™ KlickTop™



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 roofs. Contact your Schletter representative for more mounting solutions.

**For more information on CompactVario,
please contact us at:**

Schletter Inc.
1001 Commerce Center Drive
Shelby, NC 28150
Call: (888) 608 - 0234
Fax: (704) 595 - 4210
info.us@schletter-group.com

Schletter Canada Inc.
3181 Devon Drive
Windsor, ON N8X 4L3
Call: (519) 946 - 3800
Fax: (519) 946 - 3805
mail.canada@schletter-group.com