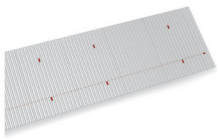
INSTALLATION OF XPRESSRAIL SYSTEM: STEP BY STEP



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MOUNT XPRESSCLIPS

Align XpressClips horizontally with each other using a chalk line, and mark the position of the rail on the roof. Mount each XpressClip onto the high bead. Point the K2 logo up toward the roof ridge. The minimum distance from the roof edge must be 59 inches. The XPressClips are each fastened with two self-tapping hexagonal screws 6 x 36 mm with EPDM seal washers.

- ¬ No pre-drilling! Except in the case of overlapping trapezoidal roof sheets, to avoid spaces.
- ¬ Thickness of steel trapezoidal sheet: min. 0.0179 inch, gauge 26 (assuming 52213 psi)
- ¬ Thickness of aluminum trapezoidal sheet: min 0.039 inch, gauge 18 (assuming 28282 psi)

Tightening torque based on flush fit.

Materials required: XPressClip, tapping screws with sealing washer

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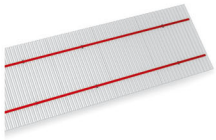
PLACE XPRESSRAIL

Guide the XPressRail diagonally into the upper groove of the first two XPressClips attached on the roof and push upward until they can go no further.

Lay XPressRail onto the supporting area of the XPressClips and push into the lower groove.

Materials required: XPressRail



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CONSIDER THERMAL EXPANSION

The XPressRail must always be built in the clamping range approved by the module manufacturer.

However, due to thermal expansion, we recommend that the rows be interrupted after 20 ft; they must be interrupted after a maximum of 27.6 ft (2 x 13.8 ft). The minimum spacing for thermal break is 1.2 - 2 inch between two rails.

The modules may never be attached over the thermal expansion joint.

Materials required: XPressRail

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LOCK XPRESSRAIL IN PLACE WITH ADDITIONAL XPRESSCLIPS

In the low beads, add XPressClips onto the rail, push the XPressClip up on the rail. Then slide the XPressClip down until the top groove of the XPressClip is engaged in the flange of the rail and slide the XPressClip sideways on the rail until it is positioned on the top bead of the trapezoidal roof.

Materials required: XPressClip

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FASTEN XPRESSCLIPS

Attach each XPressClip with two self tapping screws 6 x 36 mm. The number of additional clips required depends on the wind and snow loads.

Screw the self-tapping screws flush.

Materials required: XPressClip, self tapping screws with sealing washer

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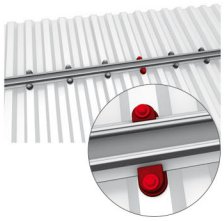
ADHERE TO CLIP SEQUENCE AND SPACING

Insert every fourth clip with the K2 logo facing downward to the roof edge in order to prevent the rail from shifting.



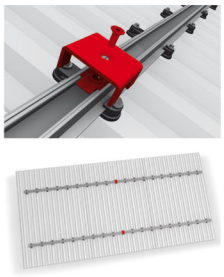
Distances between two clips are project specific and can be calculated by our calculation software Everest Base: otherwise the maximum distance for:

- ¬ Roof edge area: 15.7 inch
- ¬ Roof middle area: 29.5 inch; for cross-bracing 19.6 inch

In order not to compromise structural integrity, never attach two XPressClips to the same top bead!
For rail joints directly on a top bead: always fasten XPressClips to the respective closest top bead of the rails.

Important! At the end of each rail, a XPressClip must be fastened to the last top bead! The cantilever of the rail must not be more than 9.8 inches.

Materials required: XPressClip, self tapping screws with sealing washer



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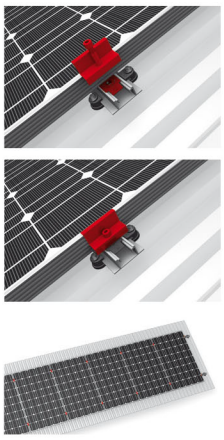
INSTALL SPEEDLOCK

The XPressLock must always be mounted in the middle of the rail. First insert an M K2 slot nut level with a XPressClip and turn it clockwise by 90°. Screw the XPressLock over the XPressClip with the M K2 using an M8 x 20 counte sunk head screw. The XPressClip fastens the XPressLock and therefore the row of rails.

Tightening torque 10.3 lbf-ft (14 Nm).

Materials required: M K2, XPressLock, Hexagon socket countersunk head screw M8 x 20



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ATTACH MODULES

First, insert the slot nut M K2 in the XPressRail and turn 90° clockwise. If the end and middle clamps are supplied as a set, please attach the whole set in the rail. Clamp the solar modules onto the rails according to the manufacturer's information.

Tightening torque moment 10.3 lbf-ft (14 Nm).

Materials required: M K2 slot nuts, end clamps, Allen bolt M8, locking washer S8

Each module at the end of a row is to be fastened with end clamps and Allen bolts M8 and slot nuts.

Important instructions for assembly

- ¬ Slot nuts at butt joints of the rails must be avoided!
- ¬ Never mount middle or end clamps directly onto the rail joint or rail end! (Distance: min. 0.8 inch from end clamp)
- ¬ The modules may never be fixed over the thermal expansion joint.

THANK YOU FOR CHOOSING AN EVEREST SOLAR SYSTEMS MOUNTING SYSTEM.

The XPressRail System is simple and fast to install. Please contact us for further assistance:

SERVICE-HOTLINE +1 760.301.5300

Everest Solar Systems, LLC
3809 Ocean Ranch Blvd.
Suite 111
Oceanside, CA 92056
Tel. +1.760.301.5300
info@everest-solarsystems.com
www.everest-solarsystems.com

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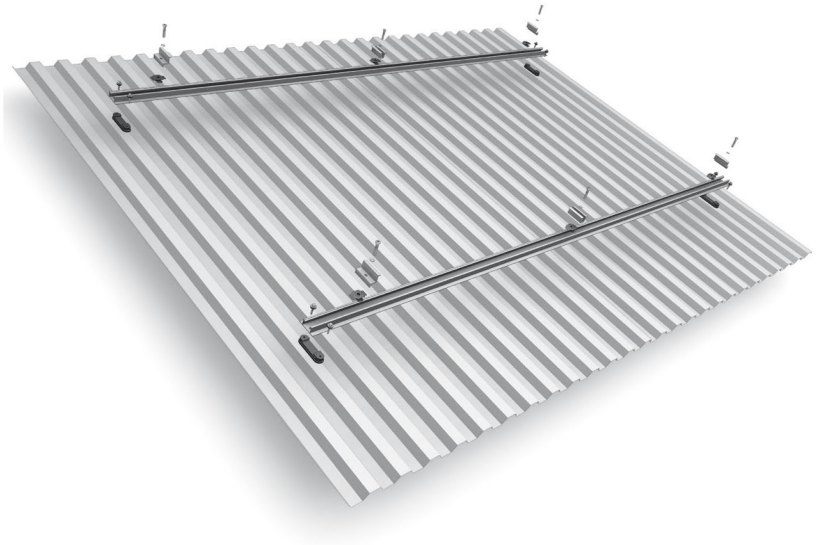
Mounting systems for solar technology



EVEREST SOLAR SYSTEMS

XPRESSRAIL SYSTEM METAL ROOF SOLUTION

XPressRail 22
Material: Aluminum

XPressClip
Material: Glass fibre reinforced polyamid, EPDM

Self-Tapping Screw 6x36
Material: Stainless steel with EPDM Washer SW8 6 x 36 mm

M K2 Slot Nut With Clip
Material: Stainless steel, Glass fibre reinforced polyamid

XPressLock Set
Material: Aluminum, Stainless steel

Module Middle Clamp
Material: Aluminum

Module End Clamp
Material: Aluminum

Burndy WEEB Lug 6.7
Material: Aluminum

Burndy KMC WEEB CLIP
Material: Stainless steel
Use with Everest Mid Clamps to bond modules to the XpressRail

Contractor is solely responsible for work safety and accident prevention regulations and corresponding standards and regulations of the applicable occupational safety and health agency are followed. Please see full safety guidelines on the Everest Solar website at **http://www.everest-solarsystems.com/us/downloads/technical-information.html**.