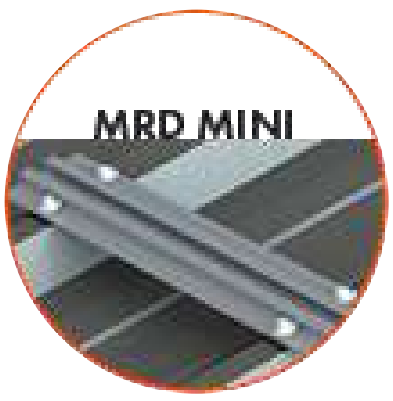
MOUNTING INSTRUCTIONS



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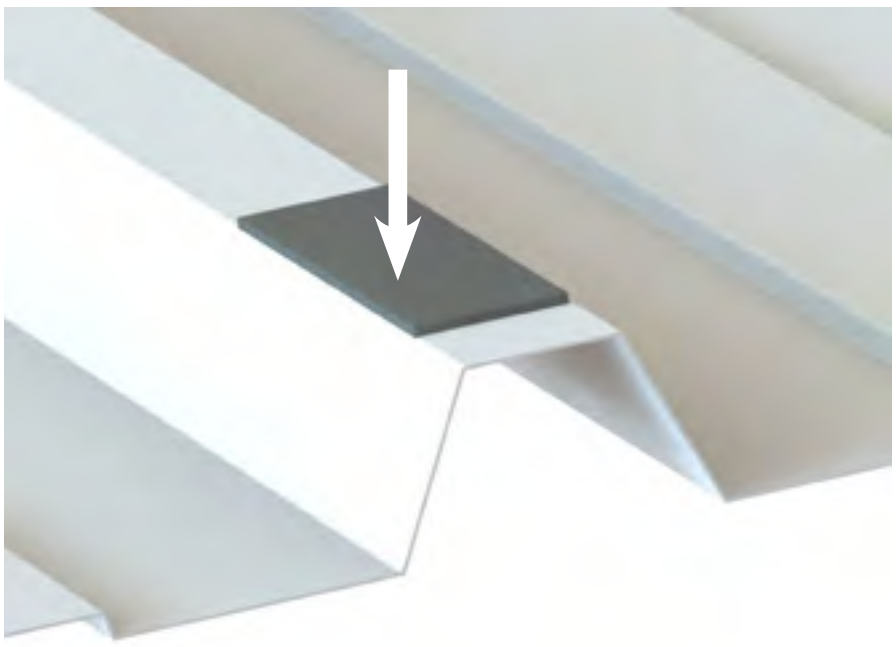
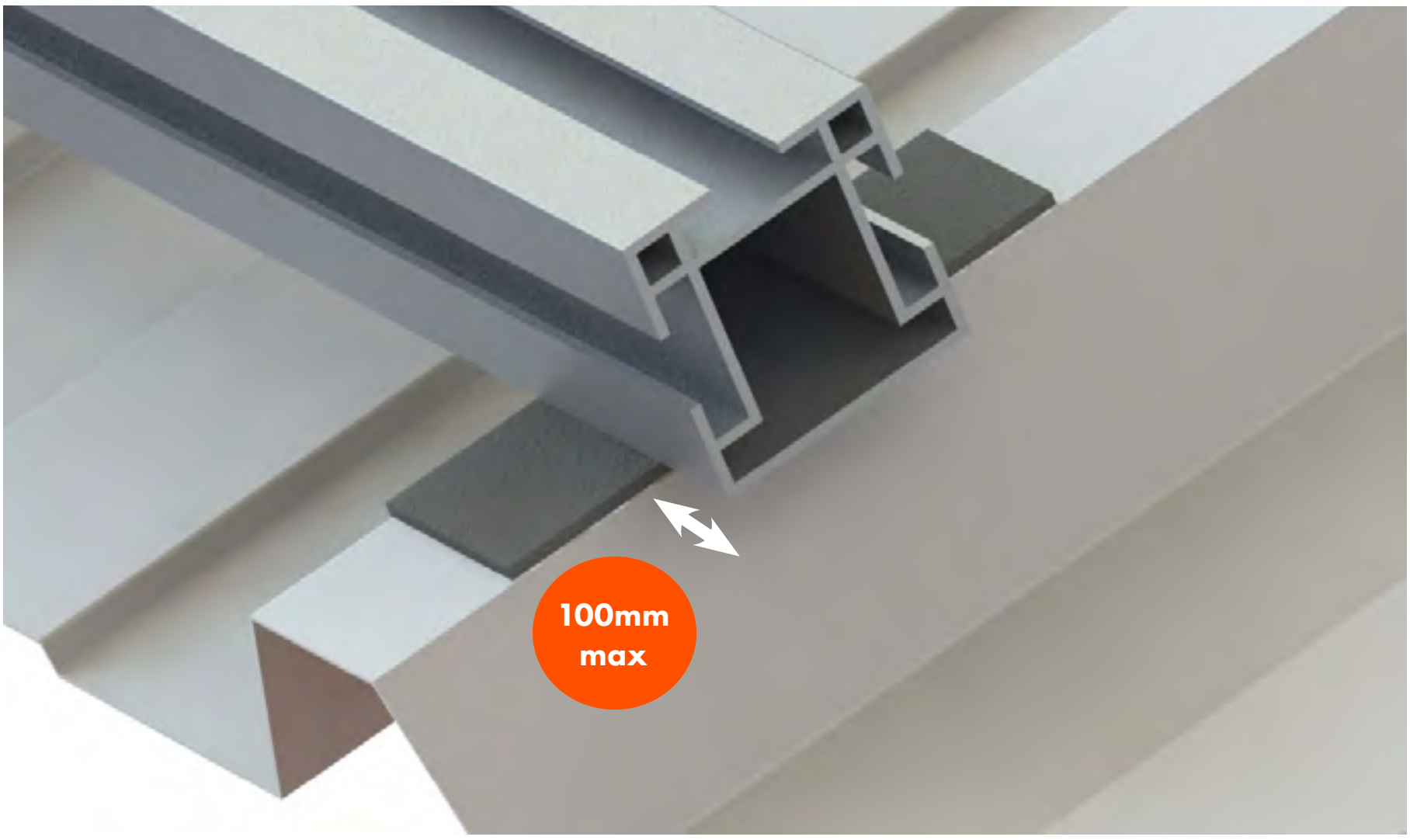
MOUNTING INSTRUCTIONS

LAYOUT

MOUNTING RAIL

EPDM PAD





Use the layout to confirm the position of fixings.
Clean and dry the trapezoidal crowns so that they are free of any dirt and grease.
Peel off the backing.
Apply onto the trapezoidal crown.

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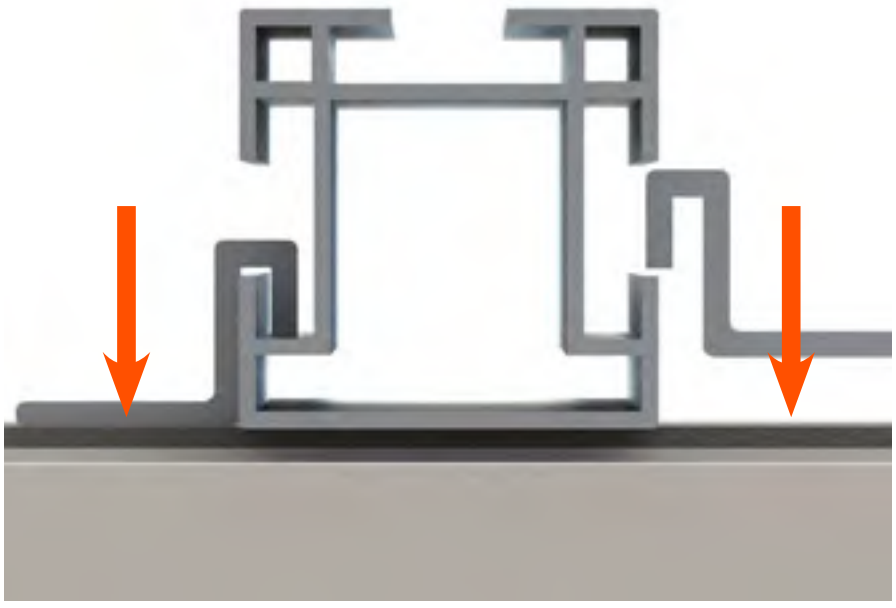
MOUNTING INSTRUCTIONS

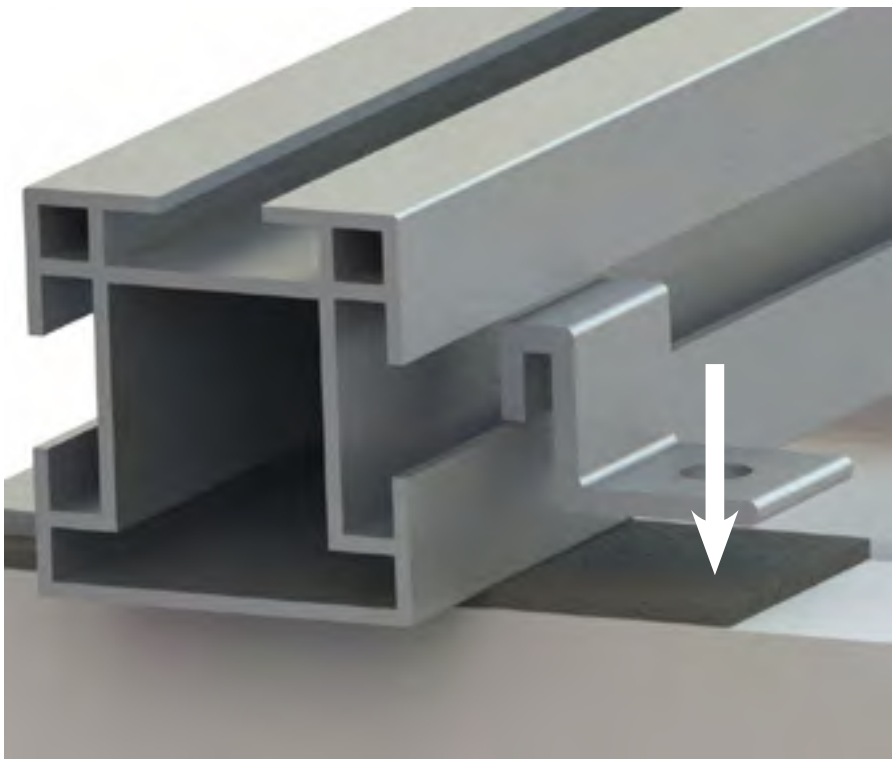
HEX SOCKET DRIVER

BATTERY DRILL

SELF DRILLING SCREW

RAIL CLIP





DO NOT OVERTIGHTEN OR SQUASH THE WASHER.
DO NOT USE IMPACTORS

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MOUNTING INSTRUCTIONS

SEE TABLE FOR SIZES

BATTERY DRILL

LAYOUT

First pre-drill the roofing sheet using TABLE A.
Next pre-drill the substructure using TABLE B.

Table A

Hanger Bolt diameter	Pre-drill diameter in roofing sheet
8 mm	10 mm
10 mm	12 mm
12 mm	14 mm

Table B

Substructure thickness	Pre-drill diameter in substructure
STEEL 1.5 - 5.0 mm	6.8 mm
STEEL 6.0 mm	7.0 mm
STEEL 8.0 mm	7.2 mm
STEEL > 10.0 mm	7.4 mm
WOOD	6.0 mm

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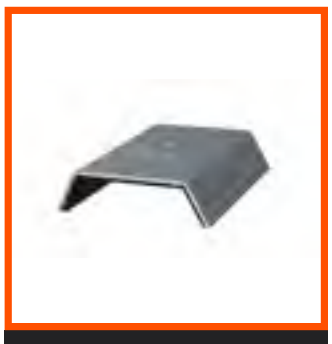
MOUNTING INSTRUCTIONS

BATTERY DRILL

HANGER BOLT FOR STEEL

DRIVE BIT FOR STEEL



SADDLE WASHER TRAPEZOIDAL

HANGER BOLT FOR WOOD

DRIVE BIT FOR WOOD

SADDLE WASHER CORRUGATED

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MOUNTING INSTRUCTIONS

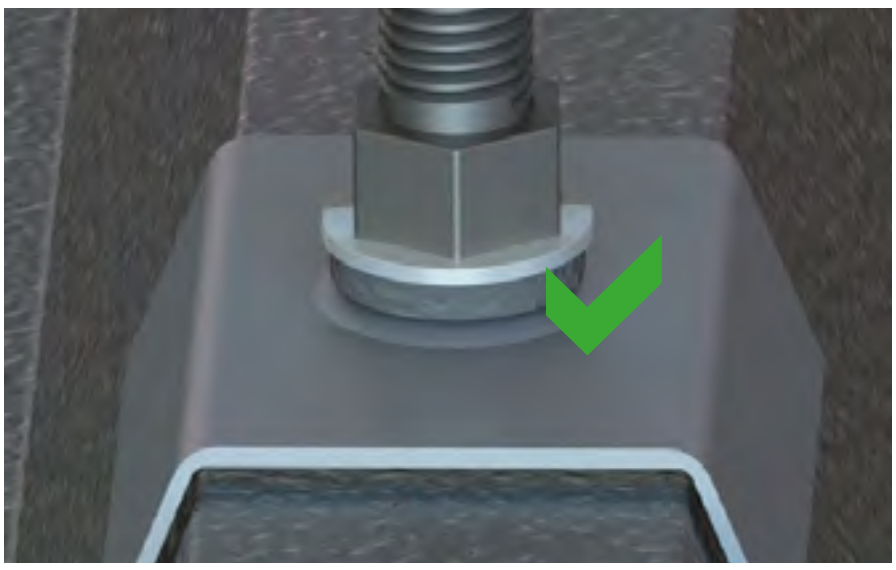
SPANNER

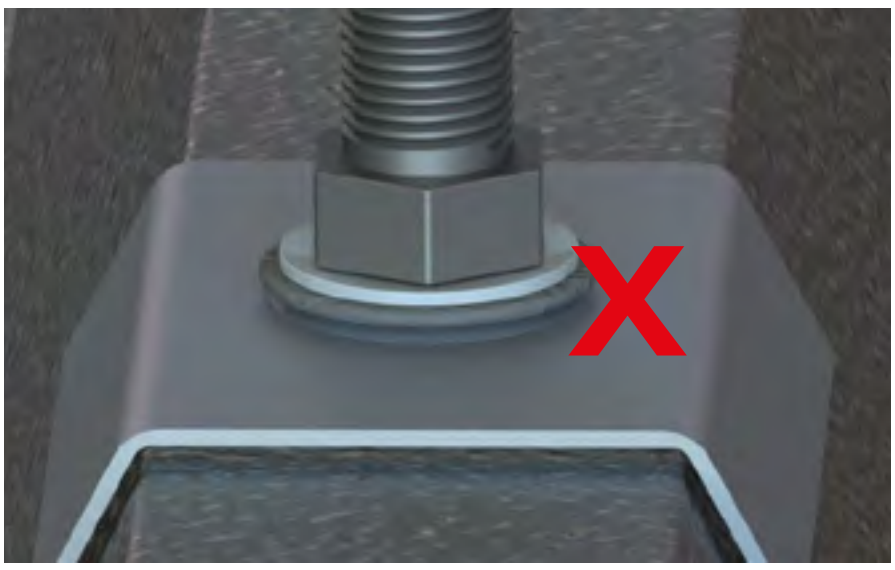
HANGER BOLT FOR STEEL

HANGER BOLT FOR WOOD

CROSS CONNECTOR

DO NOT OVERTIGHTEN OR SQUASH THE WASHER.





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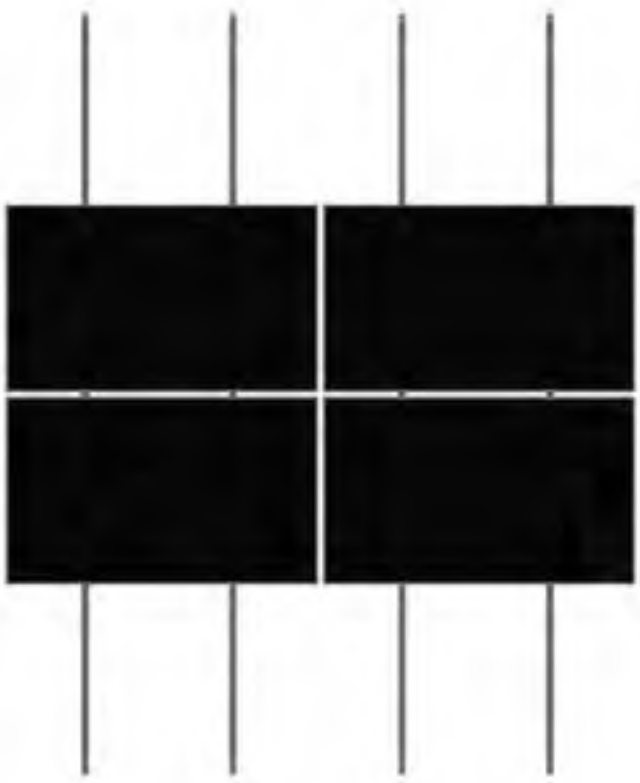
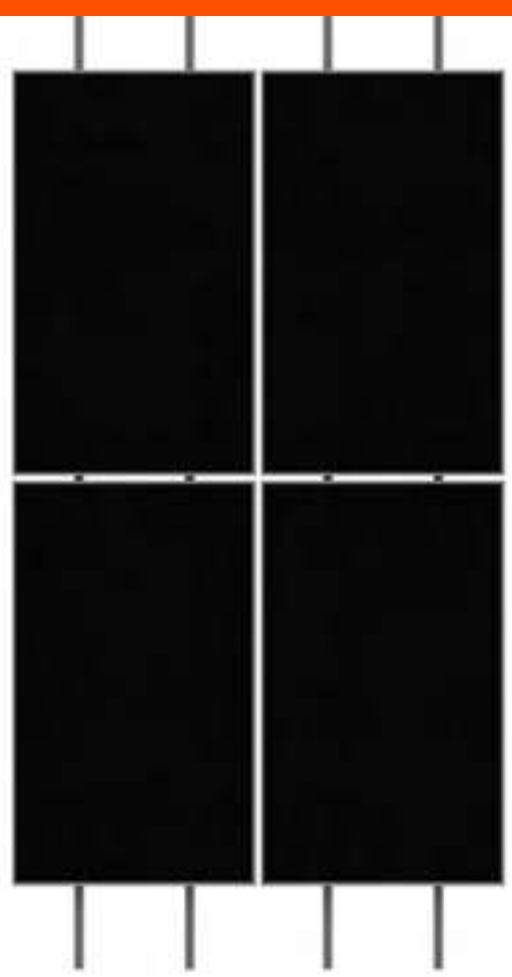
MOUNTING INSTRUCTIONS

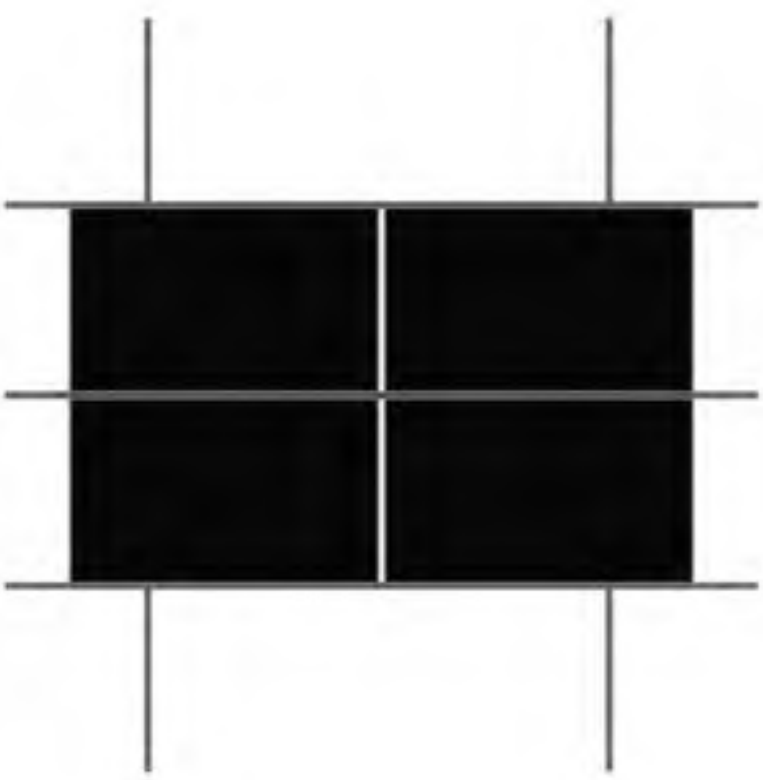
STANDARD LANDSCAPE



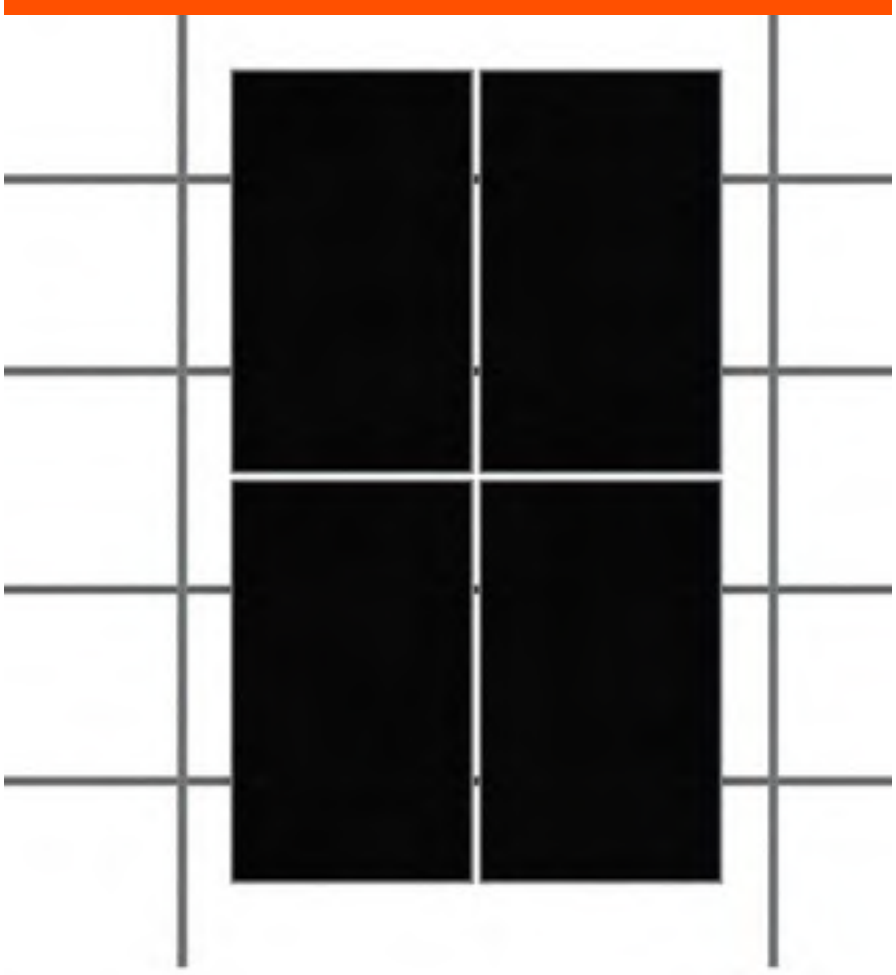
STANDARD PORTRAIT



CROSS RAIL LANDSCAPE



CROSS RAIL PORTRAIT



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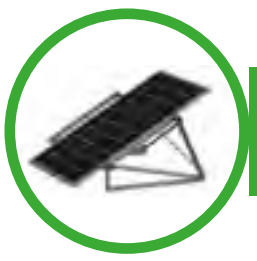

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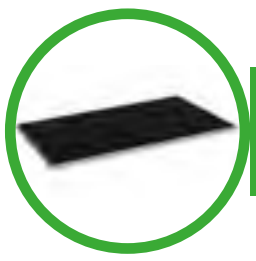

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TRAPEZOIDAL CONSOLE

TRAPEZOIDAL CONSOLE LP

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MOUNTING INSTRUCTIONS

BATTERY DRILL
NOT IMPACTOR

HEX SOCKET DRIVER

LAYOUT

TRAPEZOIDAL
CONSOLE

Use the layout to confirm:
1. the position of the Trapezoidal Console
2. how many self drilling screws are required
3. which fixing holes to use in the Trapezoidal Console

DO NOT USE IMPACTORS

SELF DRILLING
SCREW

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MOUNTING INSTRUCTIONS

BATTERY DRILL
NOT IMPACTOR

HEX SOCKET DRIVER

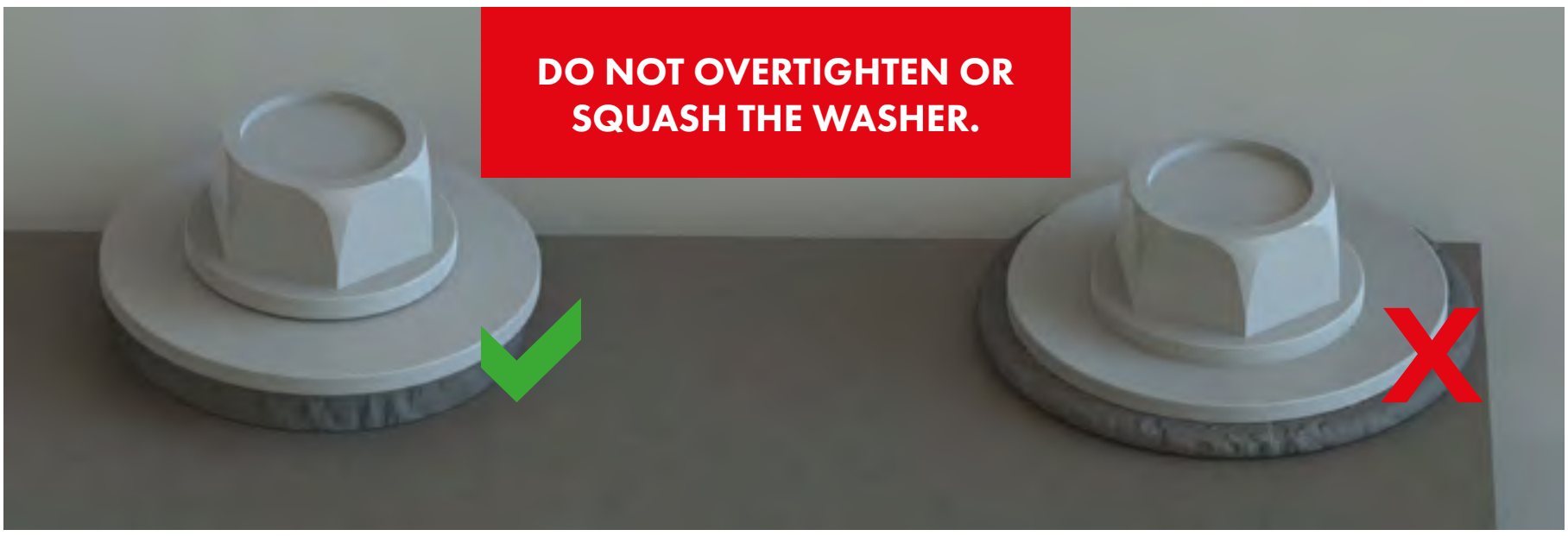
LAYOUT

TRAPEZOIDAL
CONSOLE

Use the layout to confirm:
1. the position of the Trapezoidal Console
2. how many self drilling screws are required
3. which fixing holes in the Trapezoidal Console

DO NOT USE IMPACTORS

SELF DRILLING
SCREW



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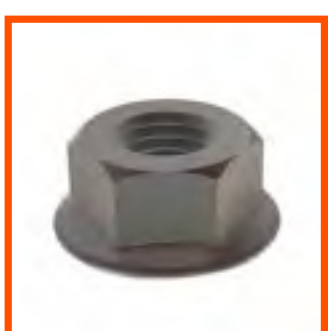
MOUNTING INSTRUCTIONS

2X SPANNER

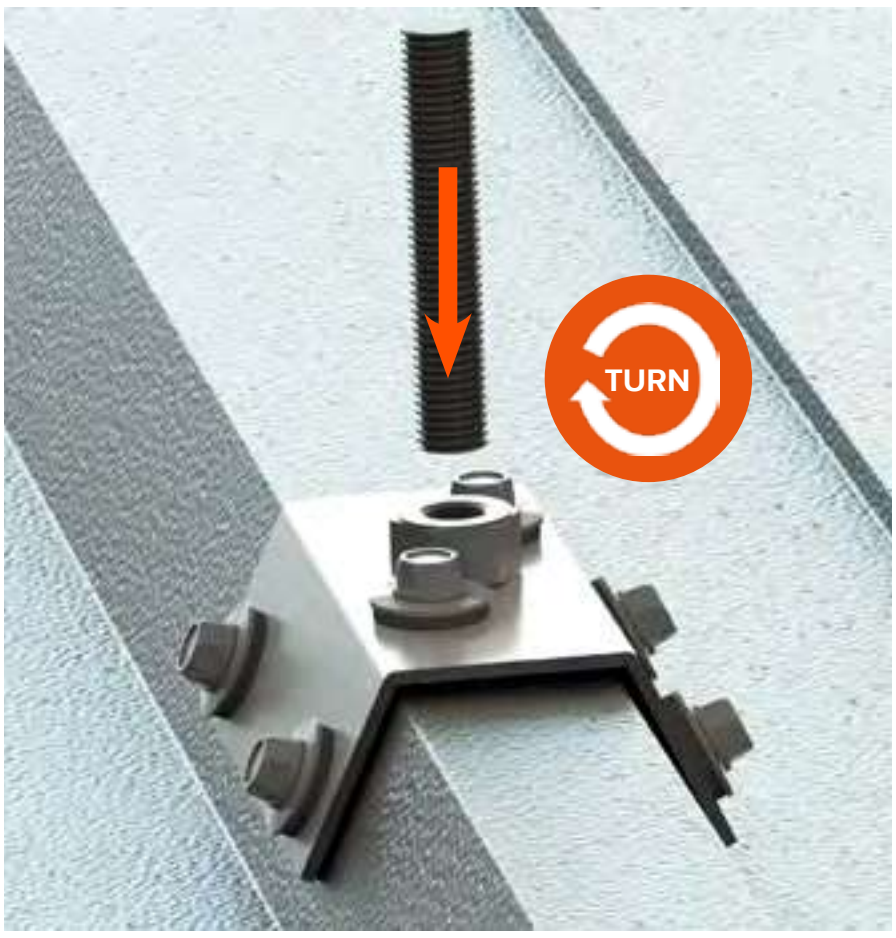
CROSS CONNECTOR

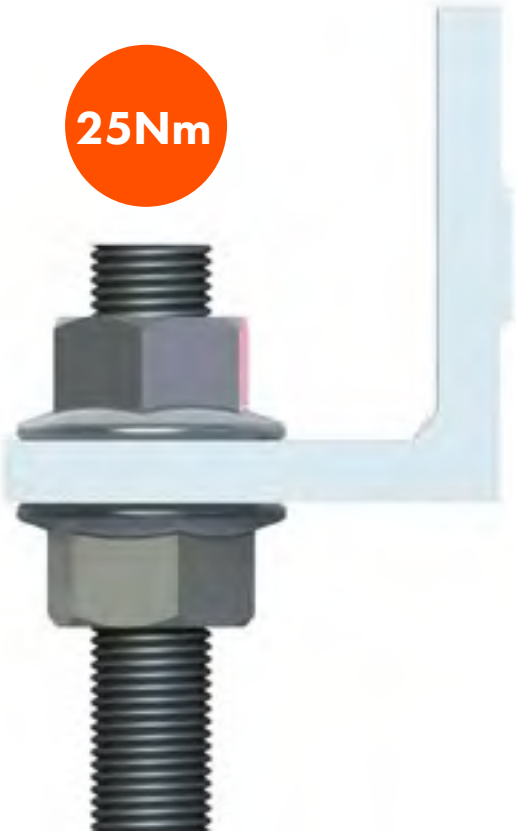
M10 ROD

TRAPEZOIDAL CONSOLE



M10 SERRATED NUT





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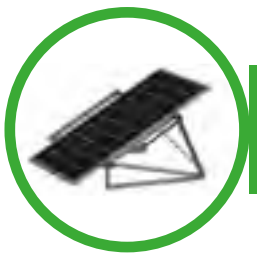

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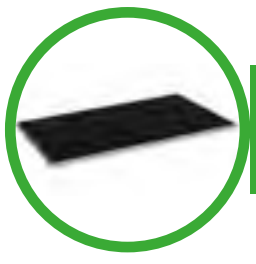

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MOUNTING INSTRUCTIONS

BATTERY DRILL
NOT IMPACTOR

HEX SOCKET DRIVER

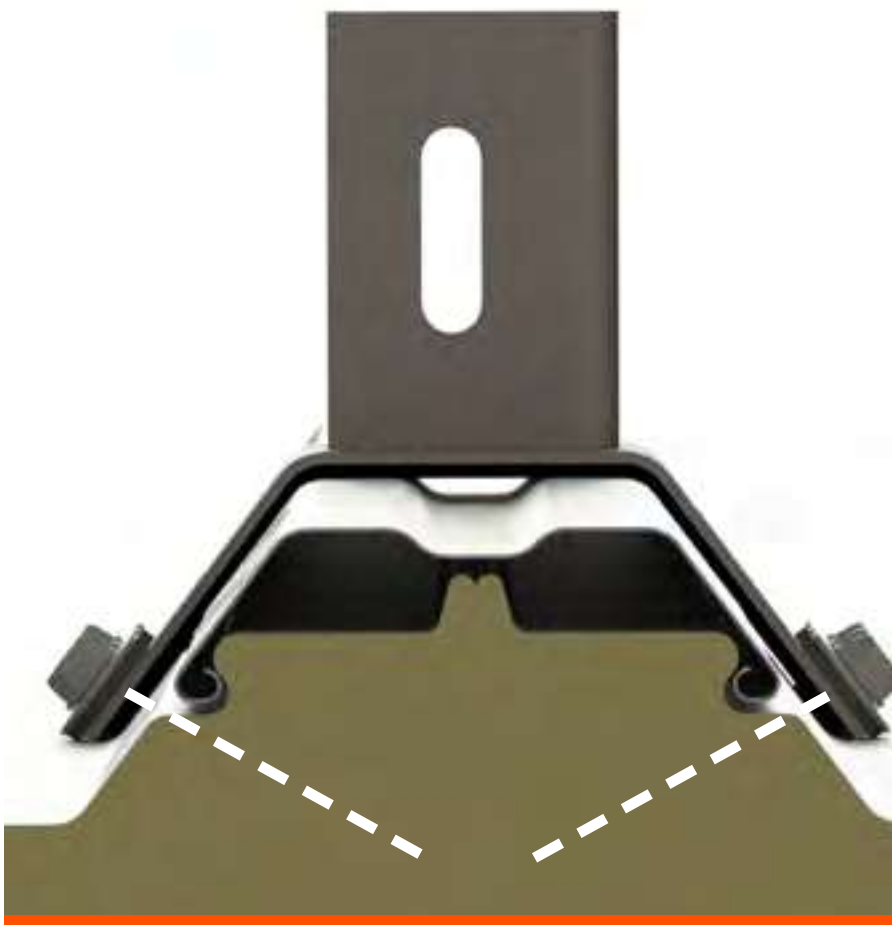
LAYOUT

TRAPEZOIDAL
CONSOLE LP

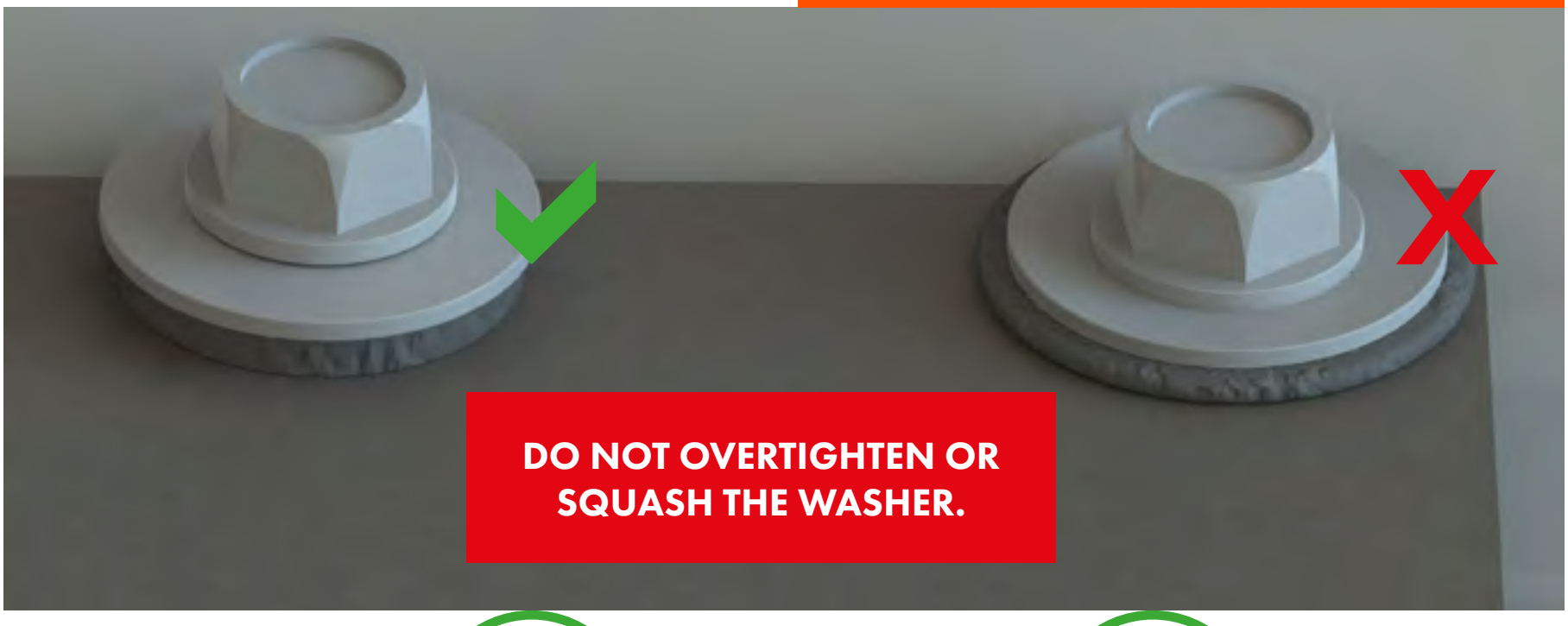
Use the layout to confirm:
1. the position of the Trapezoidal Console LP
2. how many self drilling screws are required
3. which fixing holes to use in the Trapezoidal Console

DO NOT USE IMPACTORS

SELF DRILLING
SCREW

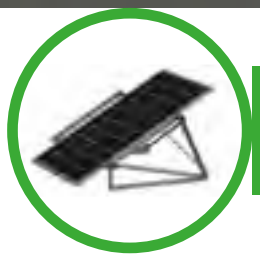


INSTALL SCREWS UNDERNEATH CAP



DO NOT OVERTIGHTEN OR SQUASH THE WASHER.

BACK



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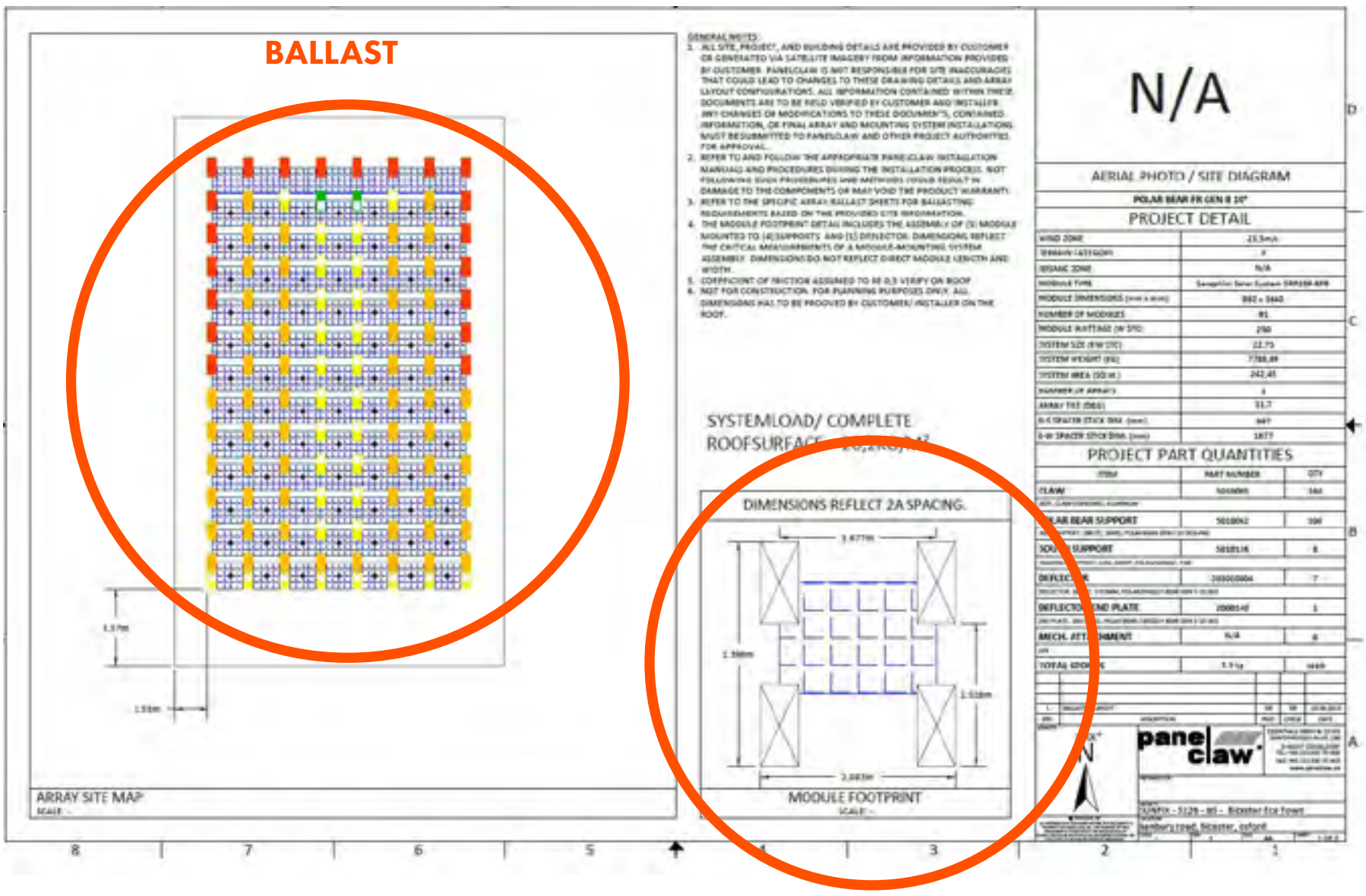
MOUNTING INSTRUCTIONS

LAYOUT

Use the layout to confirm:
1. the position of the supports
2. the ballast amount on each support
3. the fixing holes on the supports



DIMENSIONS
FIXING HOLES

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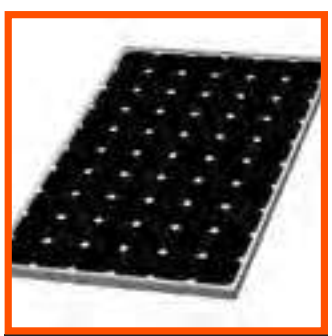
MOUNTING INSTRUCTIONS

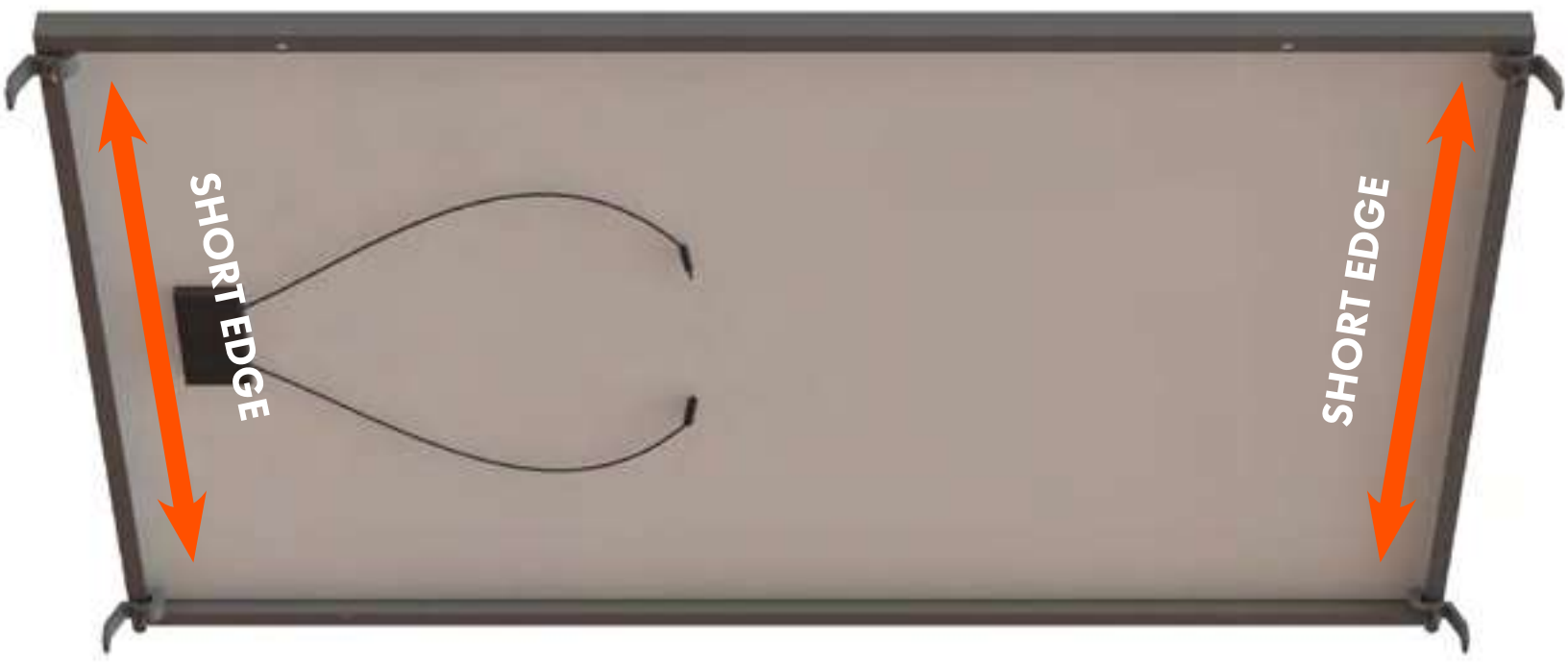
SOCKET WRENCH



SOLAR PANEL

STANDARD MODULE CLAMP

Hook 4x Standard Module Claws onto the back of the solar panel's frame along the short edge.
Slide each one into the corners of the frame.



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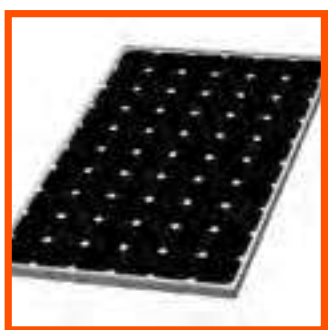
MOUNTING INSTRUCTIONS

SPANNER

ALLEN KEY



SOLAR PANEL

SPECIAL MODULE CLAMP

Position 2x Special Module Claws on the back of the solar panel's frame along the long edge. Push 1x Cylinder Head Screw through the fixing hole into the mounting hole of the solar panel and secure with a Serrated Nut.

CYLINDER HEAD SCREW

SERRATED NUT

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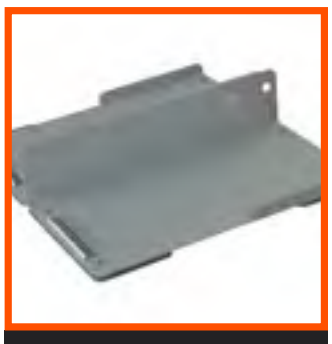
MOUNTING INSTRUCTIONS

LAYOUT

TAPE MEASURE

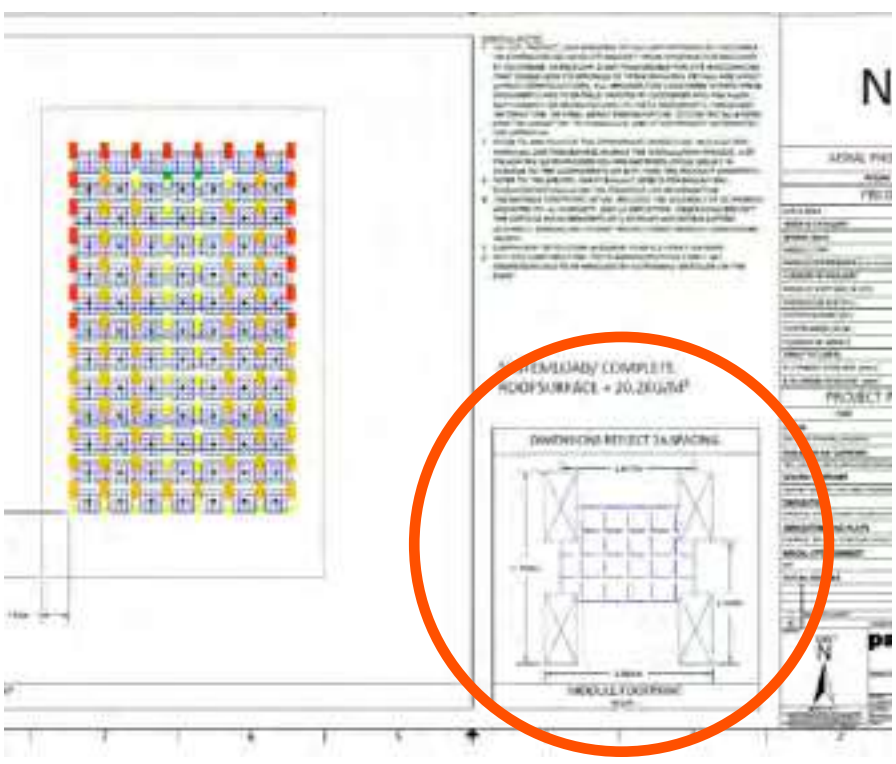
E/W SUPPORT

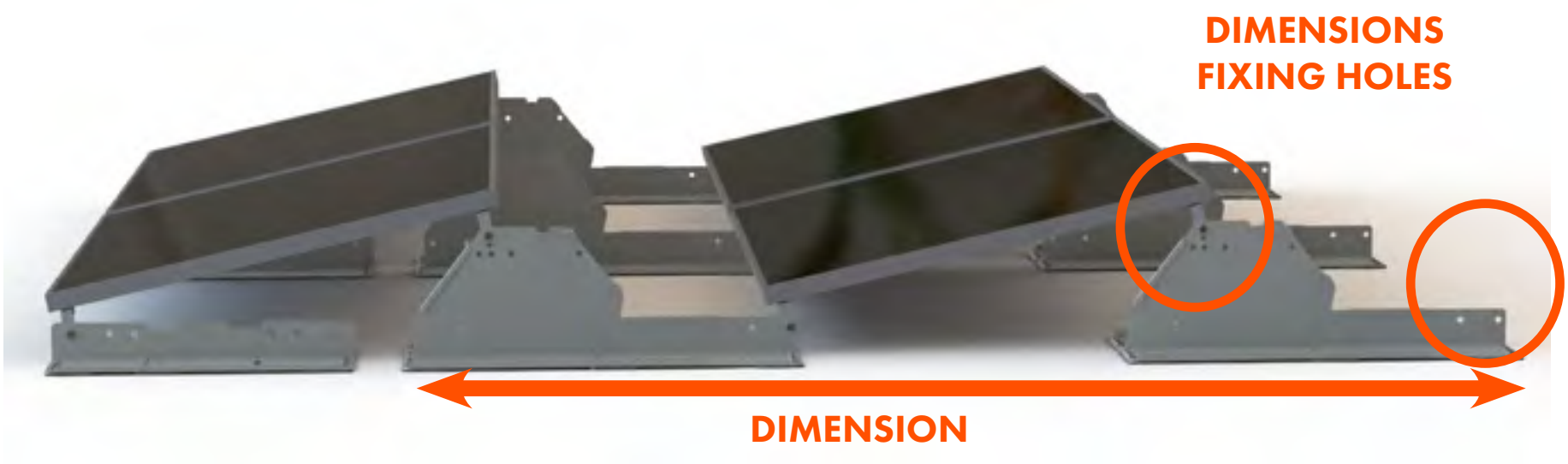


SOUTH SUPPORT

Twist the 2 pieces of the support together until the slots at the top and bottom lock together.

Use the layout to confirm the position of the assembled supports across the roof.





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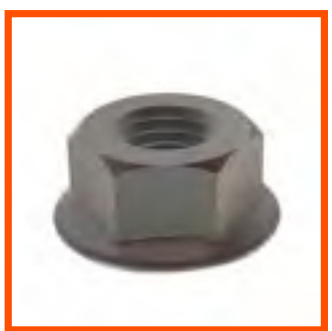
MOUNTING INSTRUCTIONS

SPANNER

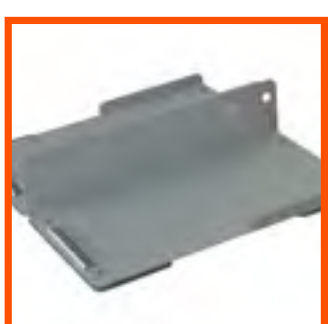
SOCKET WRENCH

M10 X 30 BOLT

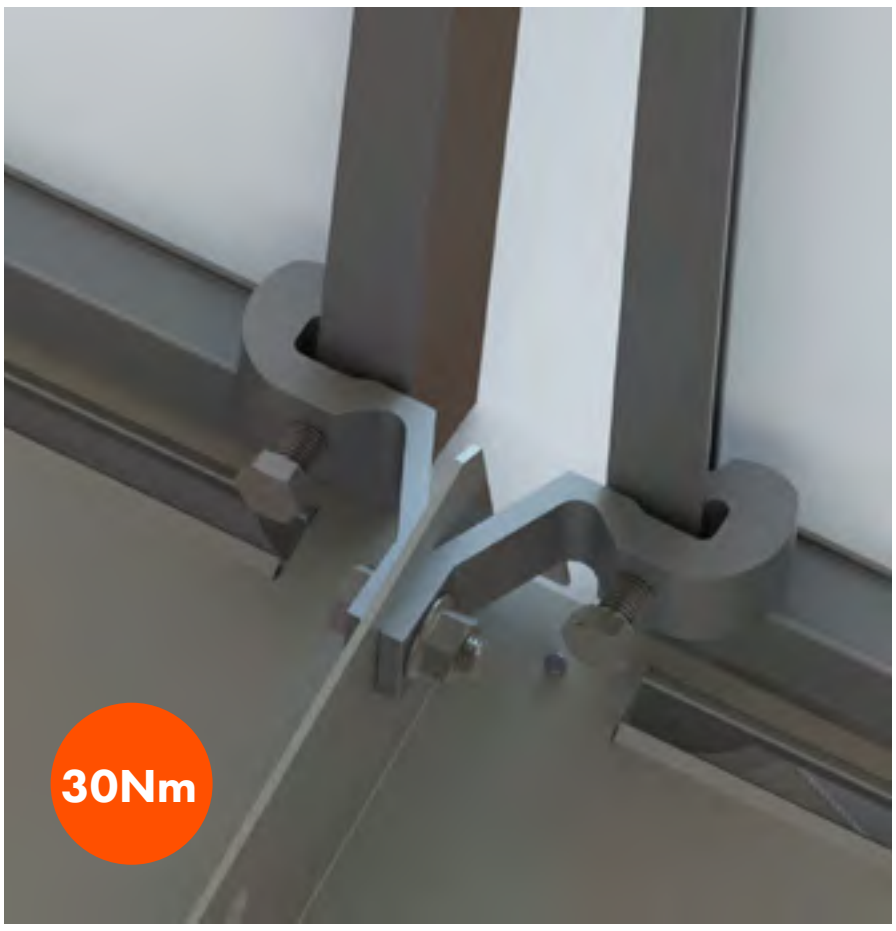


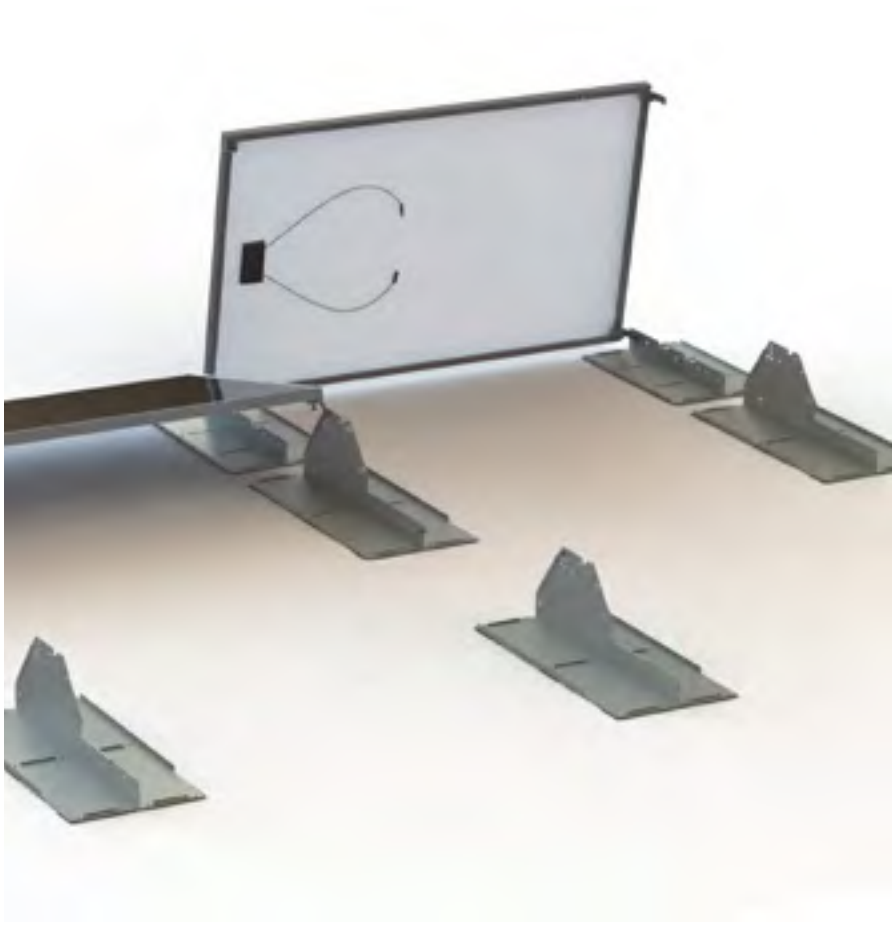
M10 SERRATED NUT

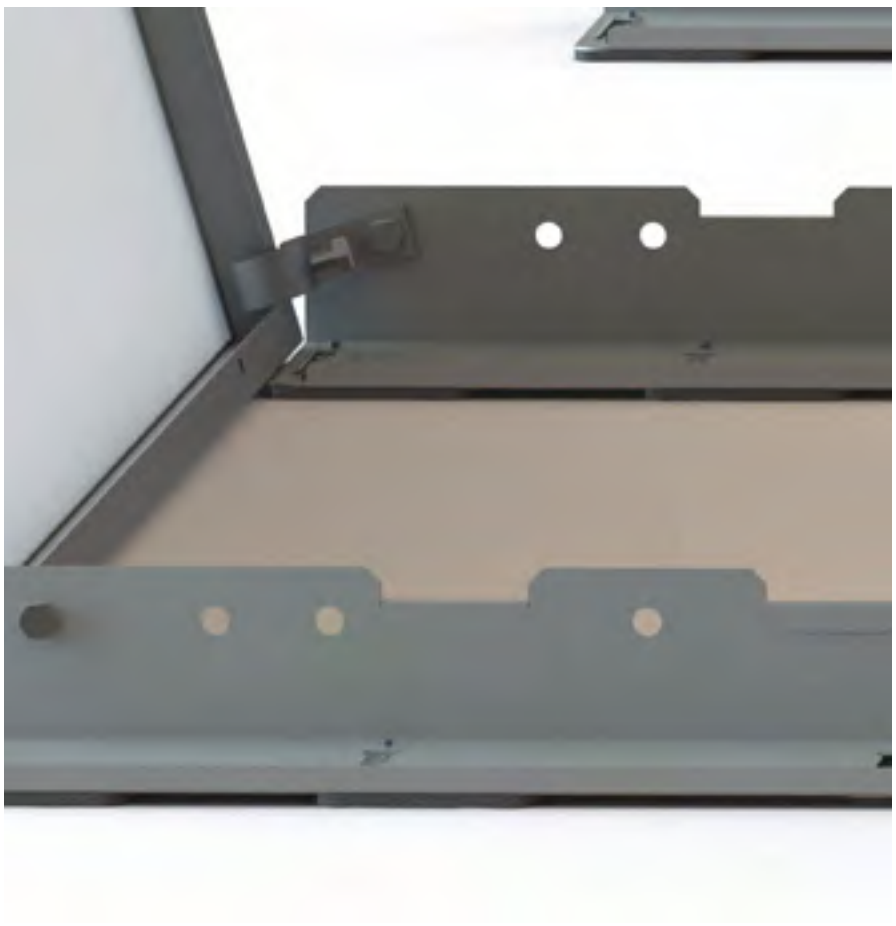
Start from the left of the array.
Push 1x M10 x 30 Bolt through the 1st Module Claw and into the fixing hole on the South Support. Place 2nd Module Claw onto the same M10 x 30 Bolt and secure with a M10 Serrtated Nut.



SOUTH SUPPORT







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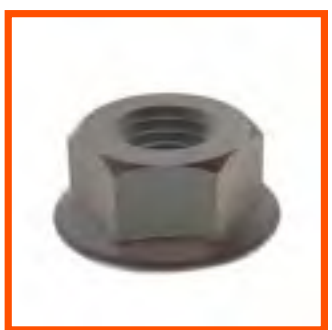
MOUNTING INSTRUCTIONS

SPANNER

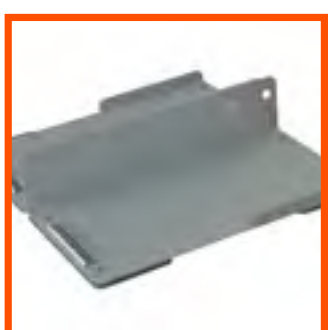
SOCKET WRENCH

M10 X 30 BOLT

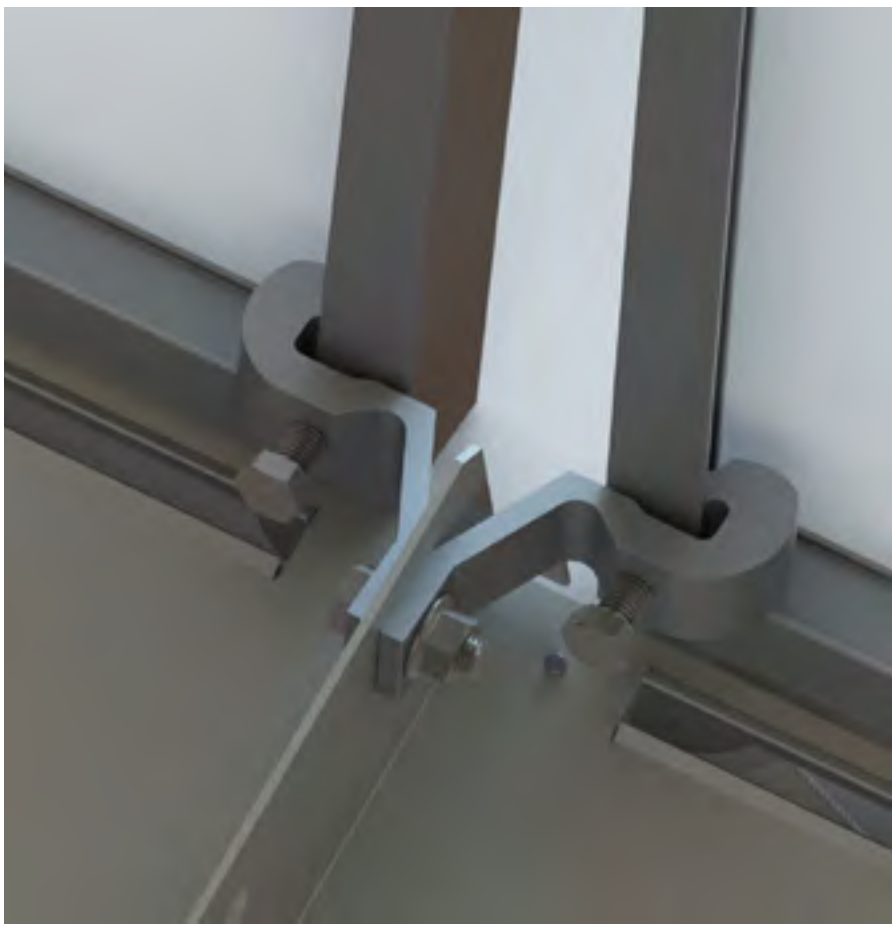


M10 SERRATED NUT

Start from the left of the array.
Push 1x M10 x 30 Bolt through the 1st Module Claw and into the fixing hole on the E/W Support. Place 2nd Module Claw onto the same M10 x 30 Bolt and secure with a M10 Serrtated Nut.



E/W SUPPORT



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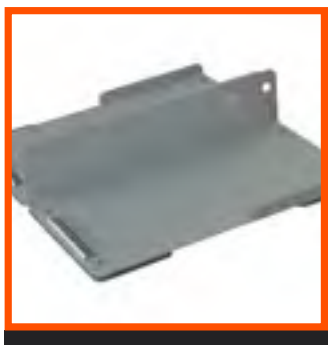
MOUNTING INSTRUCTIONS

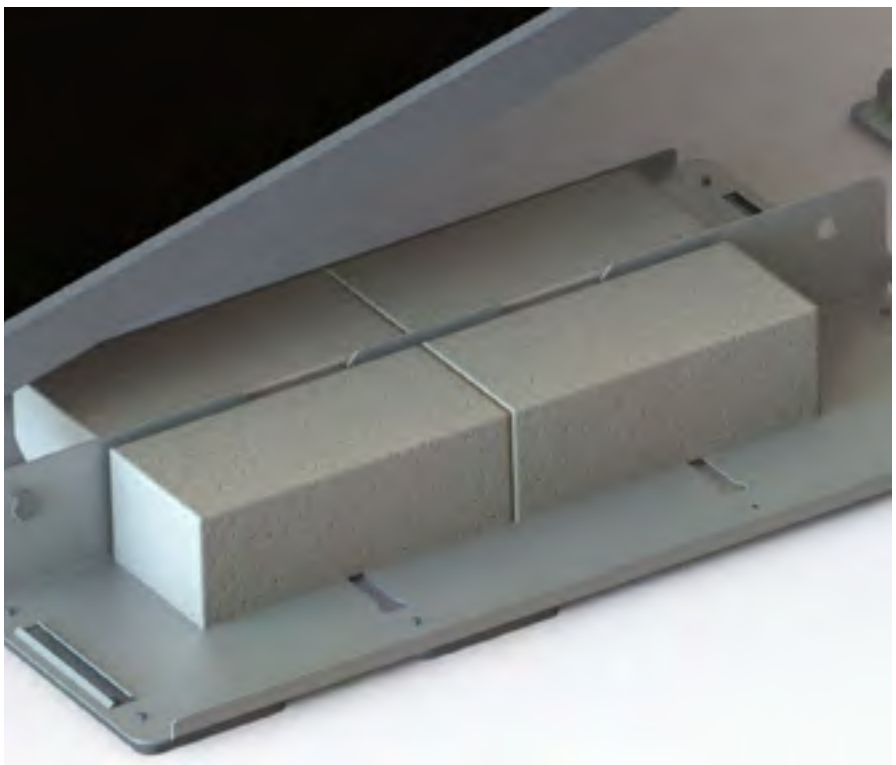
LAYOUT

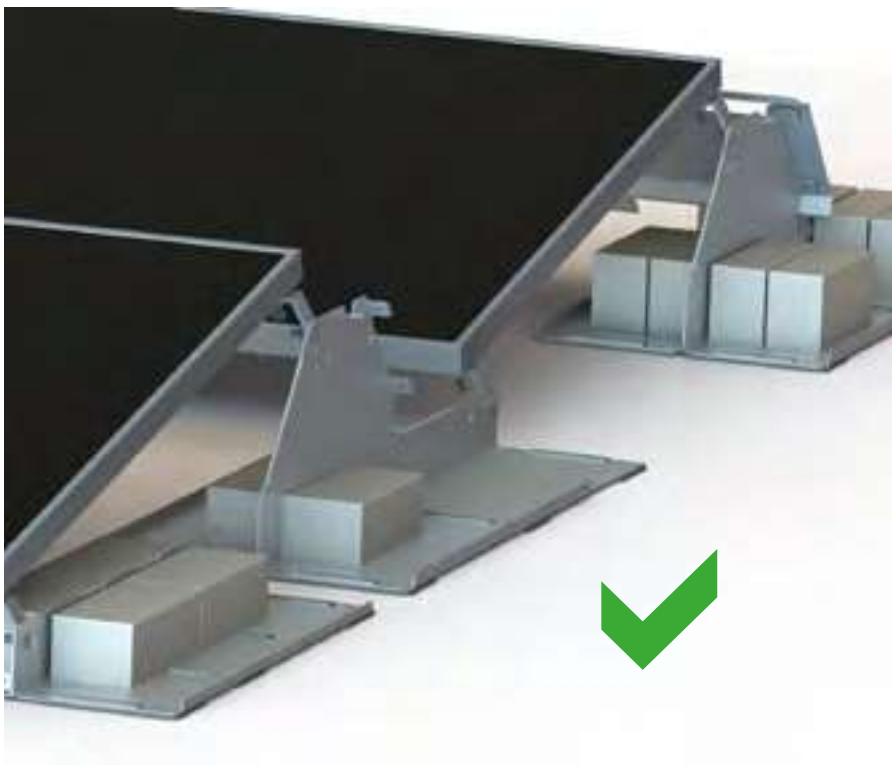
E/W SUPPORT

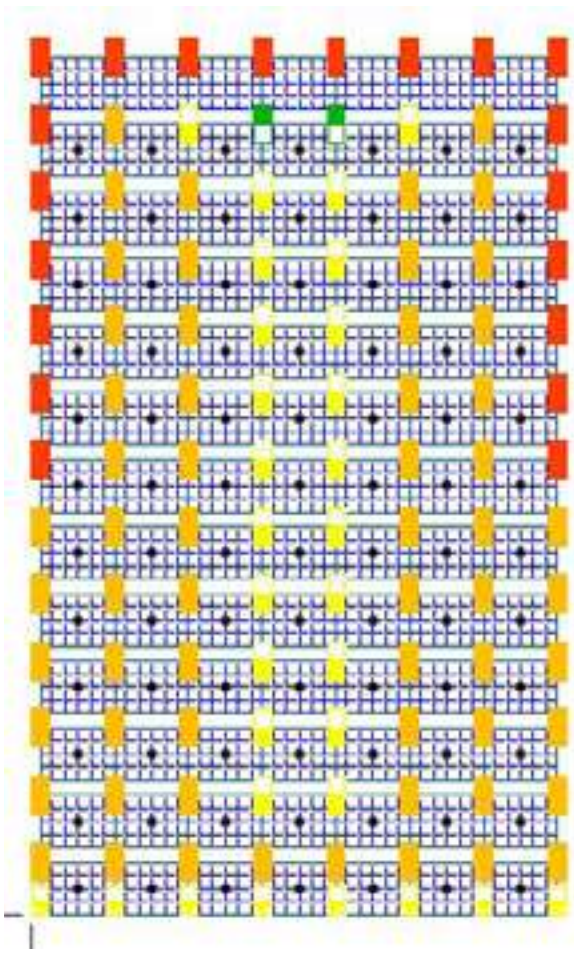


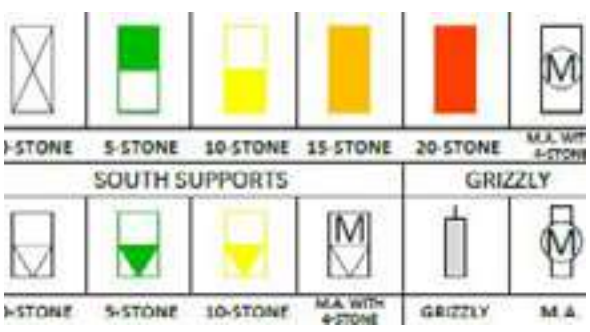
SOUTH SUPPORT

BALLAST









END

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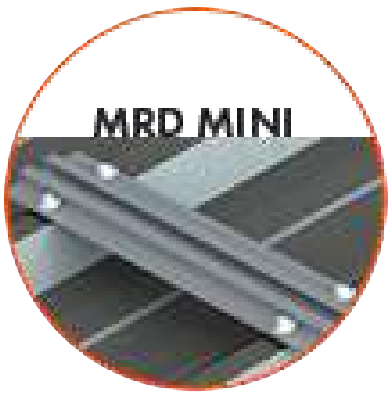
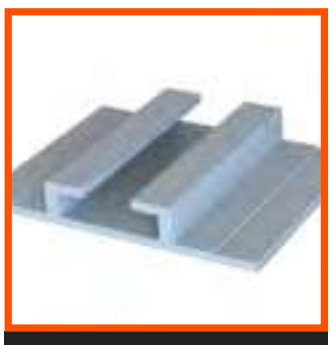
MOUNTING INSTRUCTIONS



LAYOUT

HEX SOCKET DRIVER

BATTERY DRILL
NOT IMPACTOR



MOUNTING RAIL

SELF DRILLING
SCREW

Use the layout to confirm the position of fixings.
Ensure each Mounting Rail sits on at least 2 trapezoidal crowns.

DO NOT OVERTIGHTEN OR SQUASH THE WASHER.
DO NOT USE IMPACTORS

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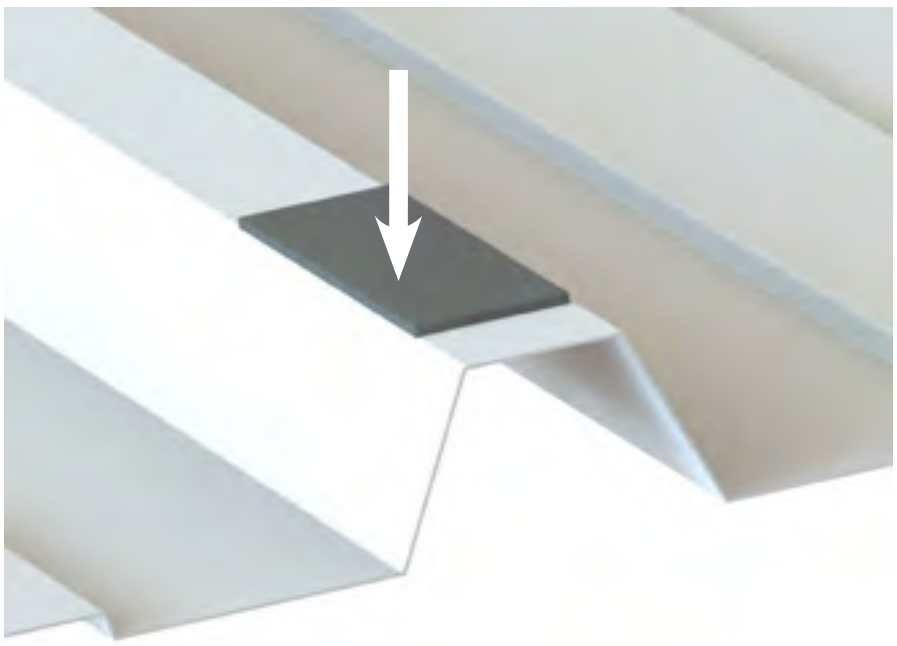
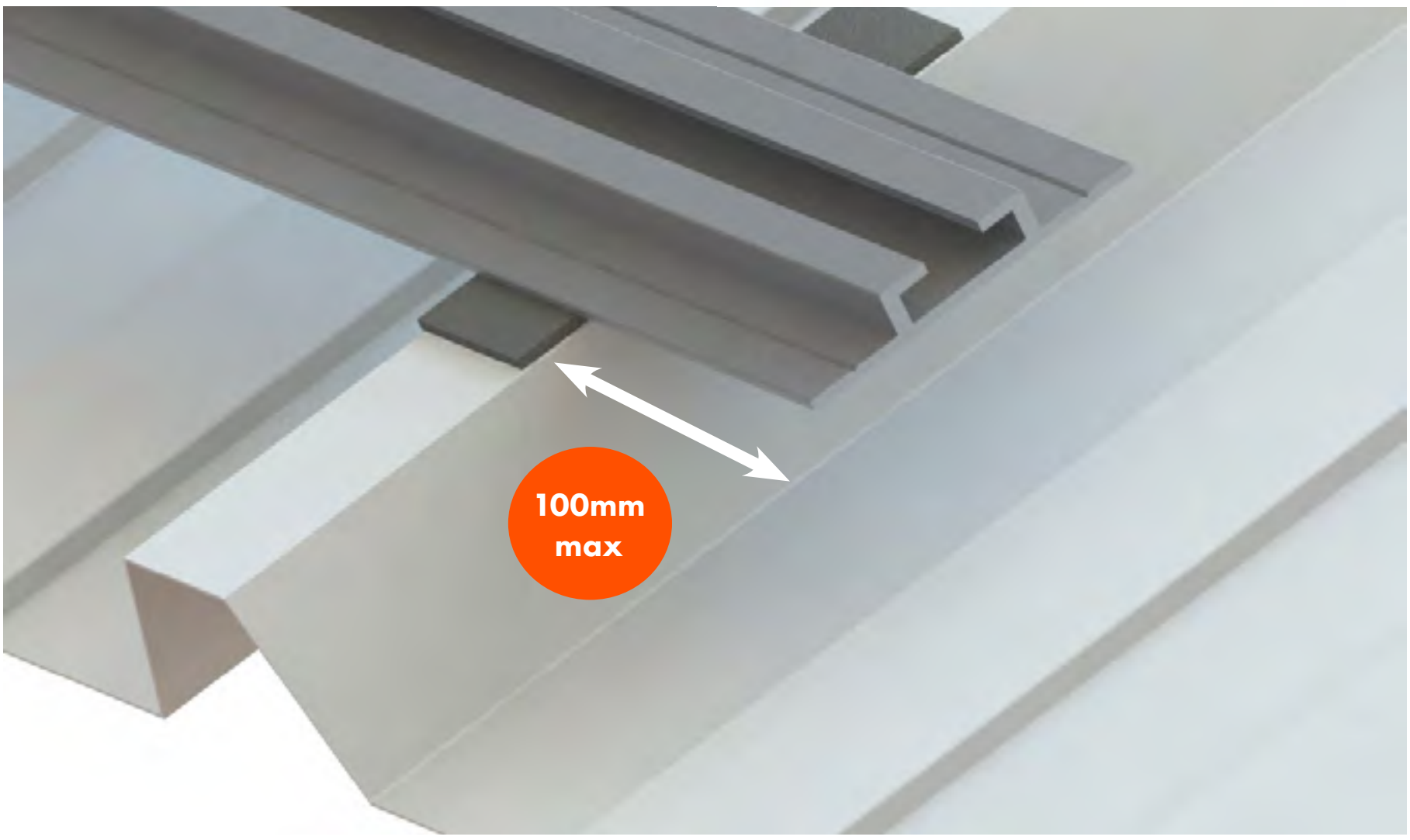
MOUNTING INSTRUCTIONS

LAYOUT

MOUNTING RAIL

EPDM PAD





Use the layout to confirm the position of fixings.
Clean and dry the trapezoidal crowns so that they are free of any dirt and grease.
Peel off the backing.
Apply onto the trapezoidal crown.

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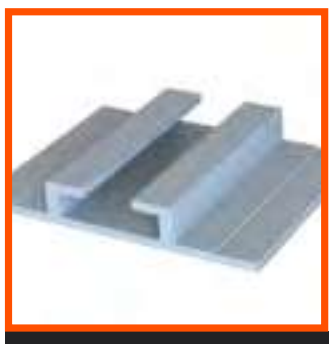
MOUNTING INSTRUCTIONS

HEX SOCKET DRIVER

BATTERY DRILL
NOT IMPACTOR



MOUNTING RAIL

SELF DRILLING
SCREW

DO NOT OVERTIGHTEN OR SQUASH THE WASHER.
DO NOT USE IMPACTORS

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MOUNTING INSTRUCTIONS

LAYOUT

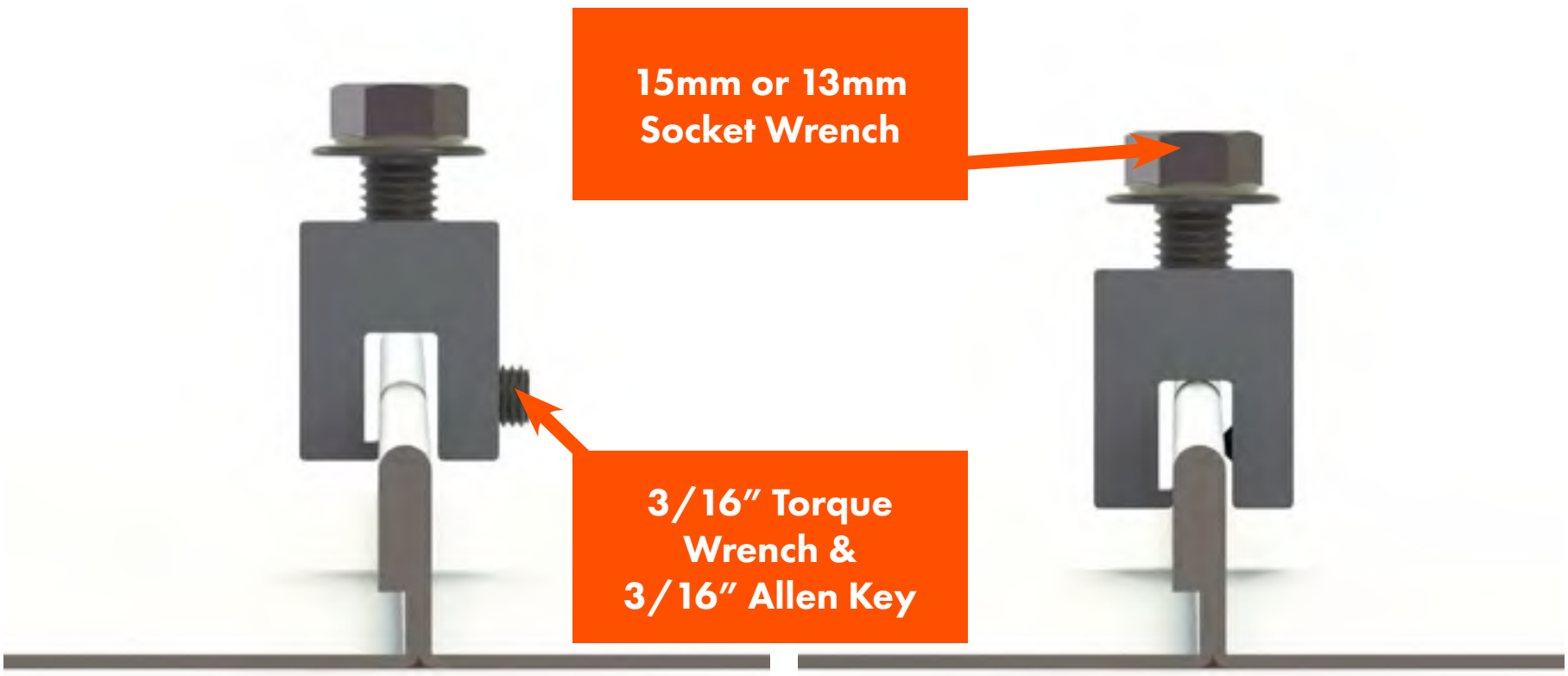
TORQUE WRENCH

ALLEN KEY

SOCKET WRENCH

Use the layout to confirm the position of the Standing Seam Flat Clamps.

STANDING SEAM FLAT CLAMP



DO NOT OVERTIGHTEN (STOP BEFORE THE SEAM STARTS TO DEFORM)
DO NOT UNDER TIGHTEN (THE CLAMP SHOULD NOT MOVE ON THE SEAM)

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MOUNTING INSTRUCTIONS

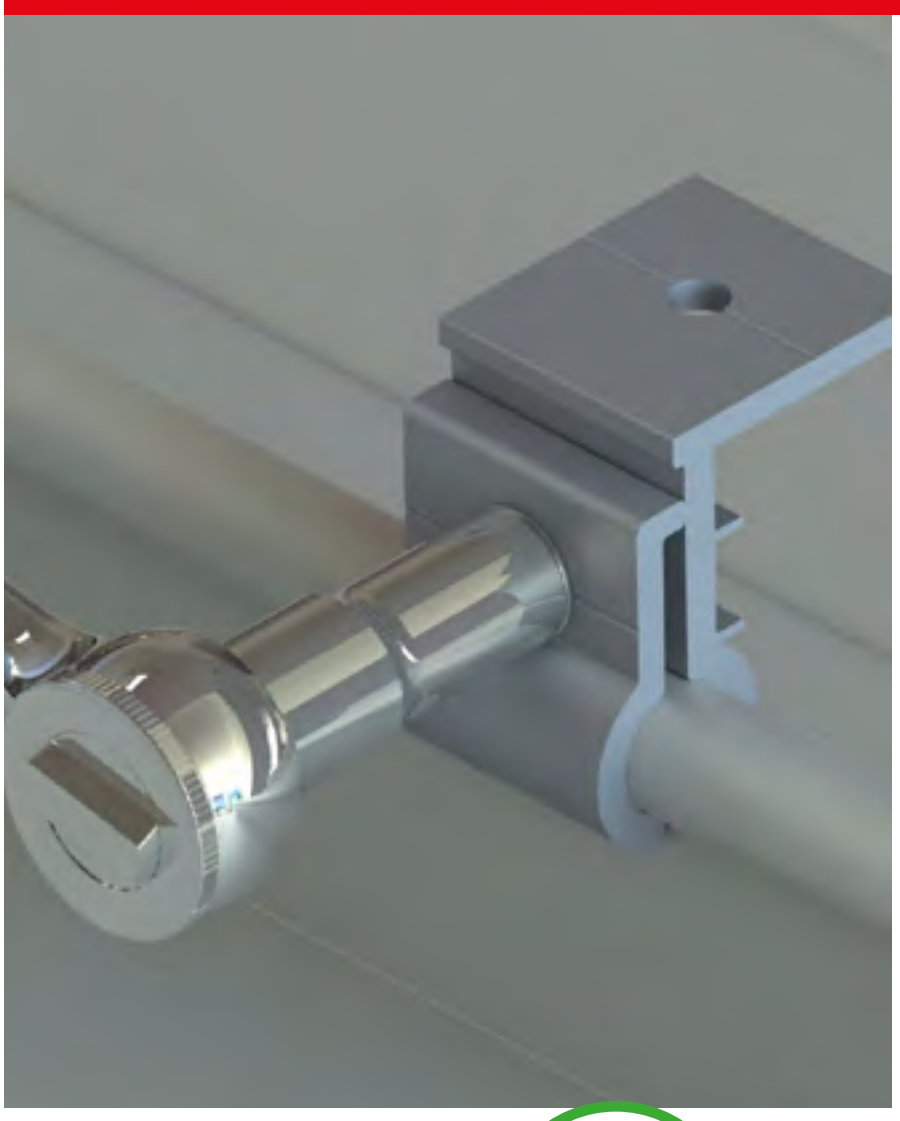
LAYOUT

SOCKET WRENCH

STANDING SEAM ROUND CLAMP

Use the layout to confirm the position of the Standing Seam Round Clamps.

DO NOT OVERTIGHTEN (STOP BEFORE THE SEAM STARTS TO DEFORM)
DO NOT UNDER TIGHTEN (THE CLAMP SHOULD NOT MOVE ON THE SEAM)



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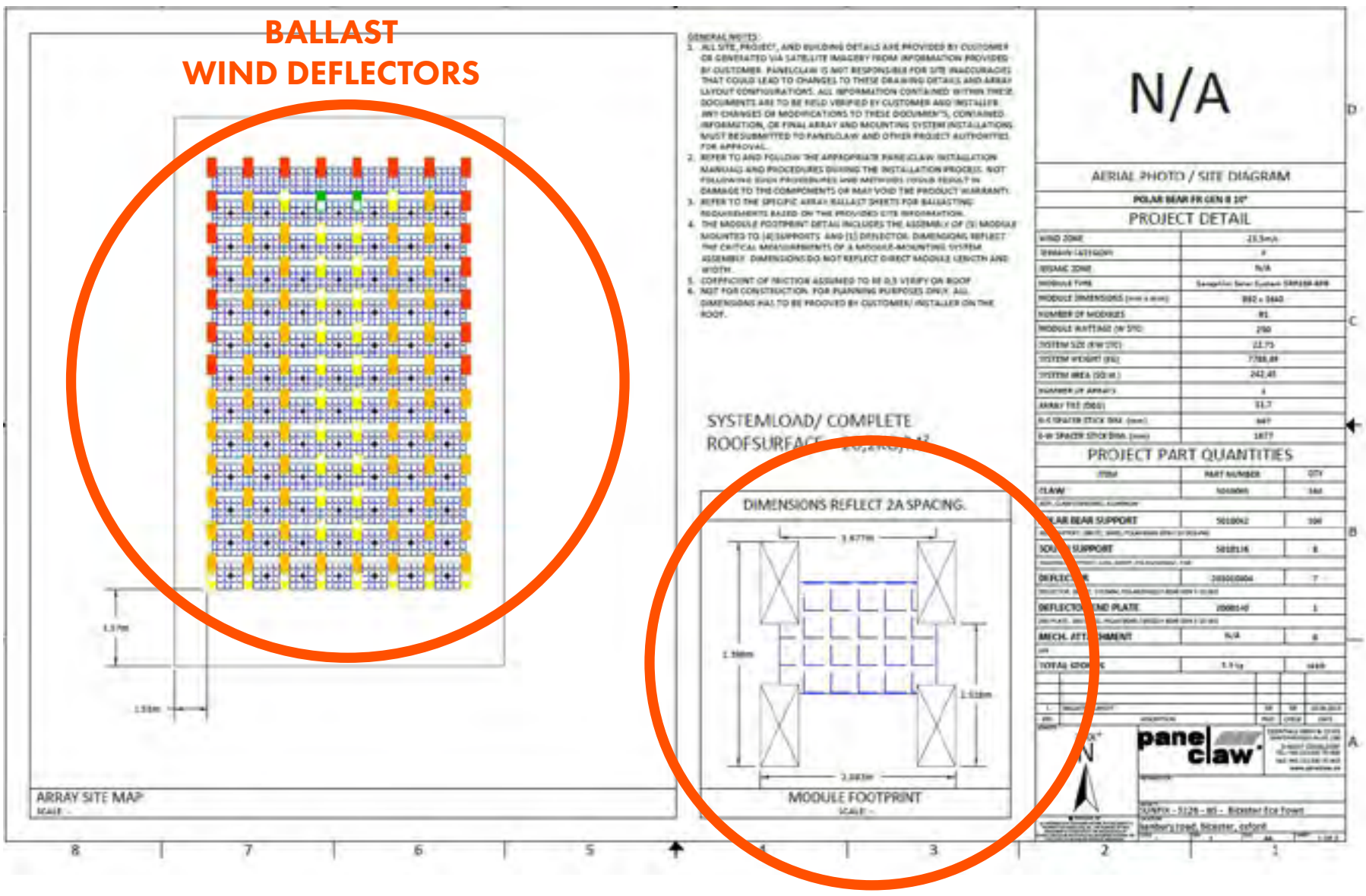
MOUNTING INSTRUCTIONS

LAYOUT

Use the layout to confirm:
1. the position of the supports
2. locate the position of the Wind Deflectors
3. the ballast amount on each support
4. the fixing holes on the supports



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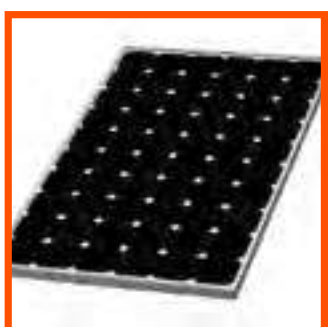
MOUNTING INSTRUCTIONS

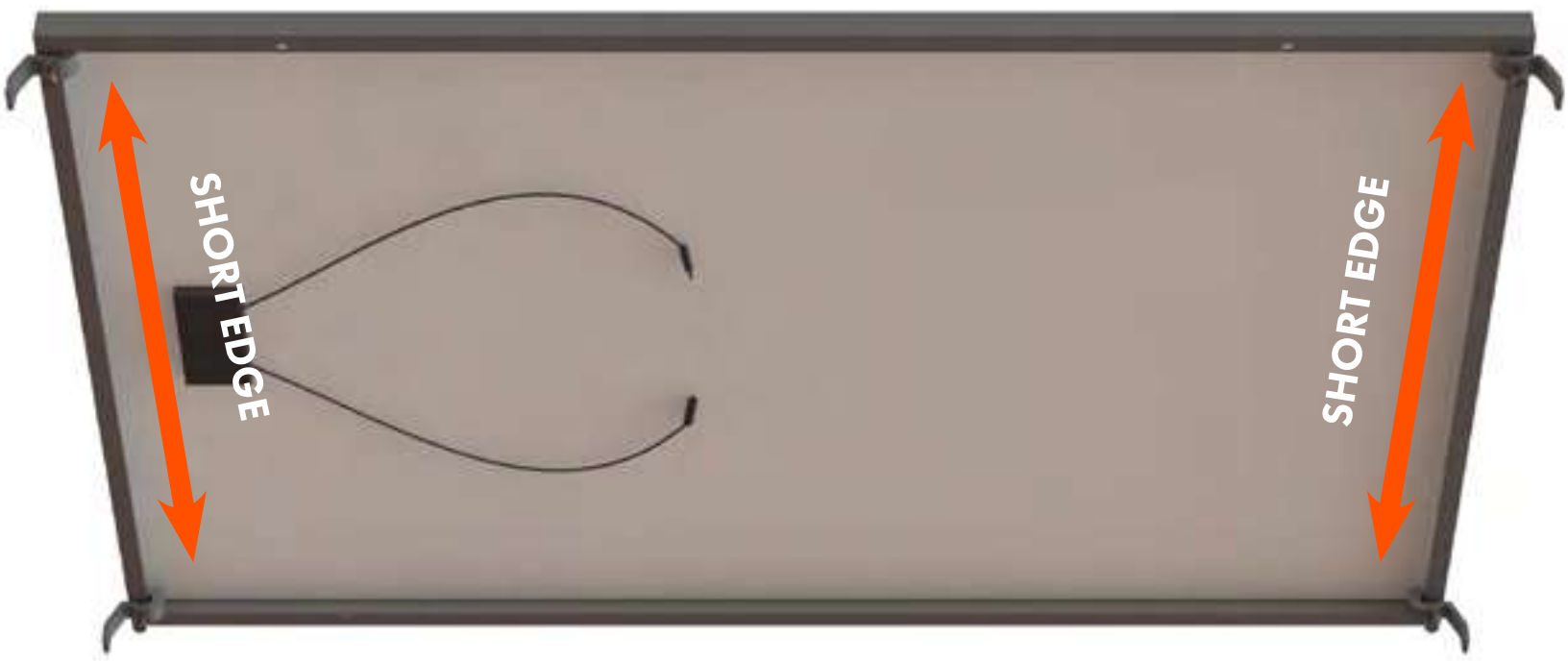
SOCKET WRENCH



SOLAR PANEL

STANDARD MODULE CLAMP

Hook 4x Standard Module Claws onto the back of the solar panel's frame along the short edge.
Slide each one into the corners of the frame.



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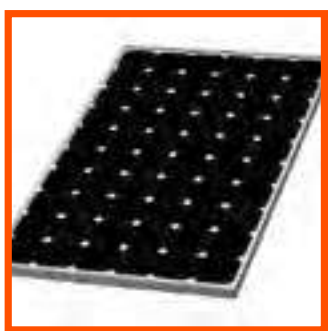
MOUNTING INSTRUCTIONS

SPANNER

ALLEN KEY



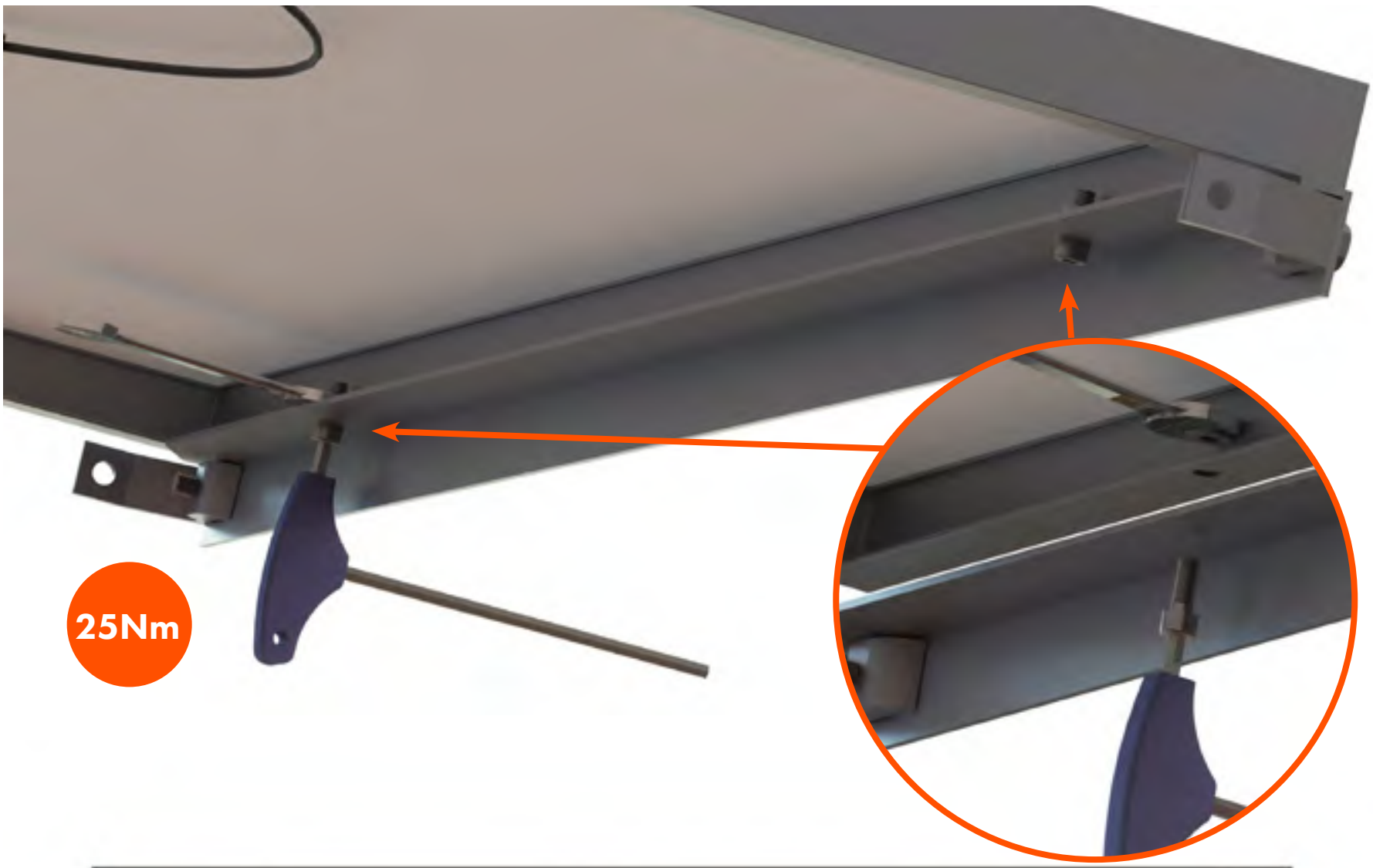
SOLAR PANEL

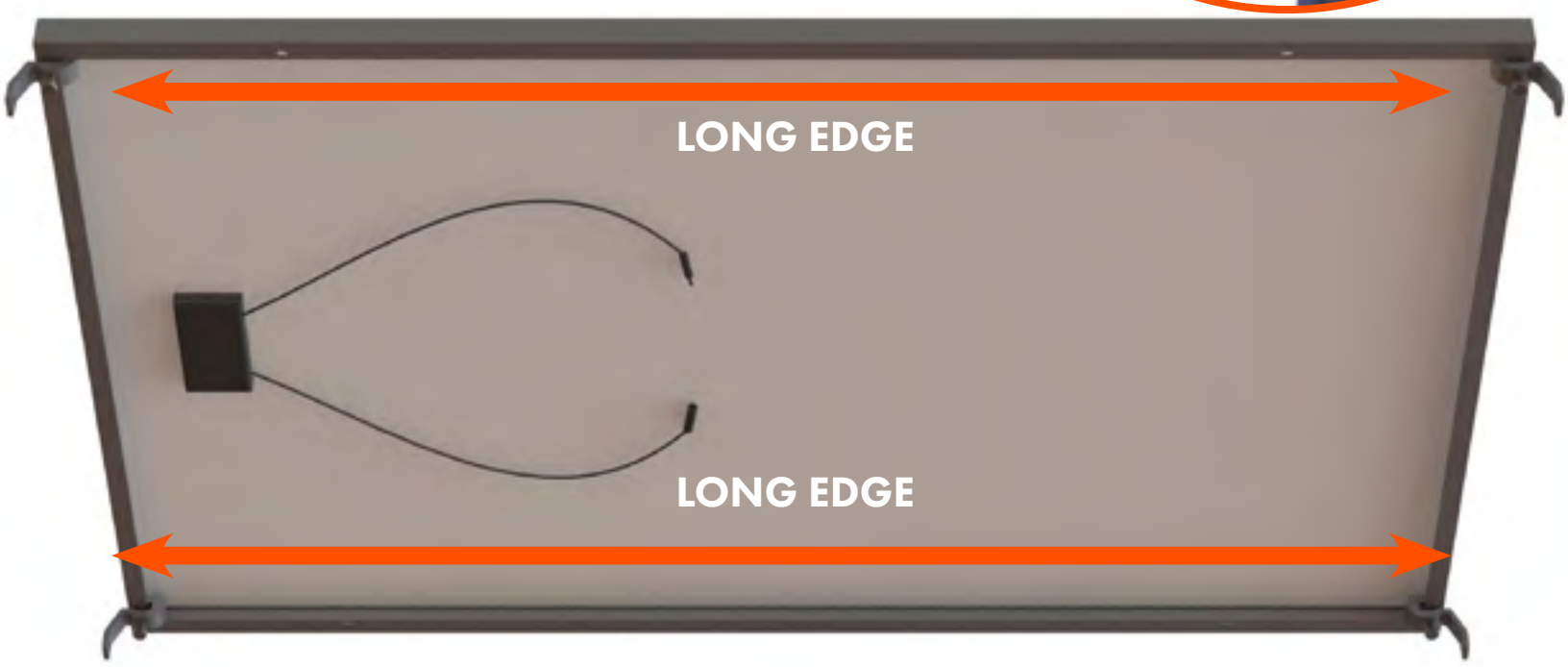
SPECIAL MODULE CLAMP

Position 2x Special Module Claws on the back of the solar panel's frame along the long edge. Push 1x Cylinder Head Screw through the fixing hole into the mounting hole of the solar panel and secure with a Serrated Nut.

CYLINDER HEAD SCREW

SERRATED NUT





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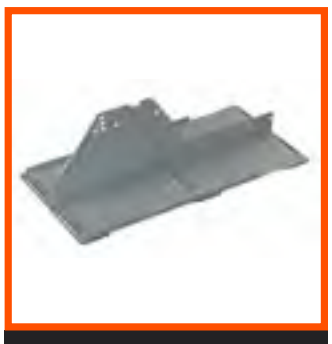
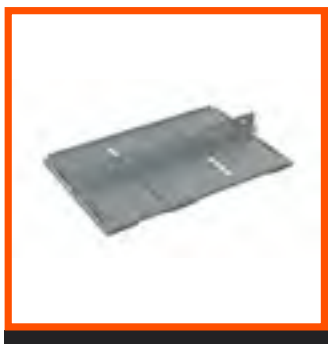
MOUNTING INSTRUCTIONS

LAYOUT

TAPE MEASURE



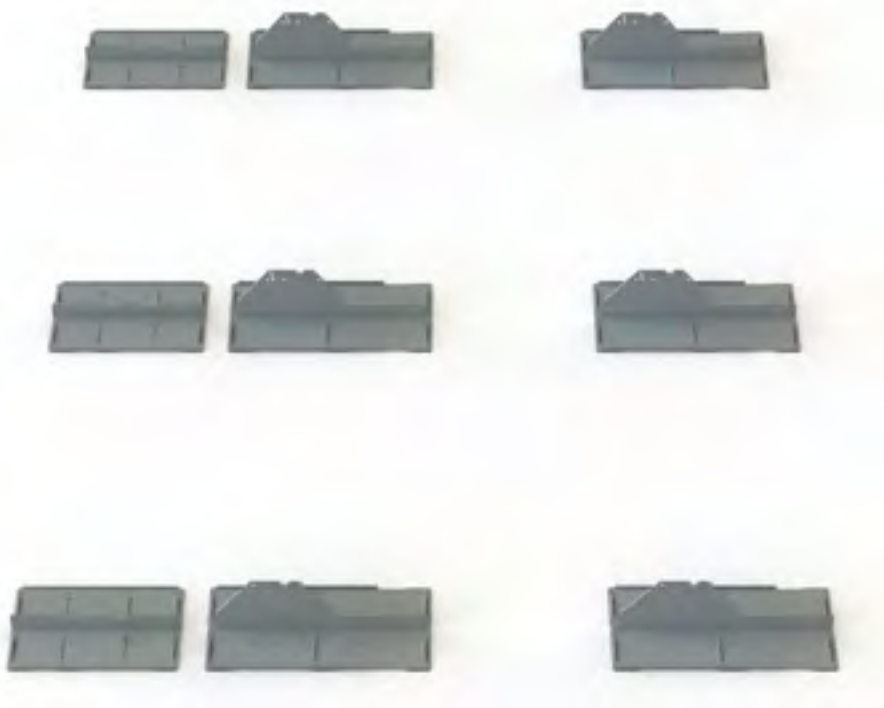
N/S SUPPORT

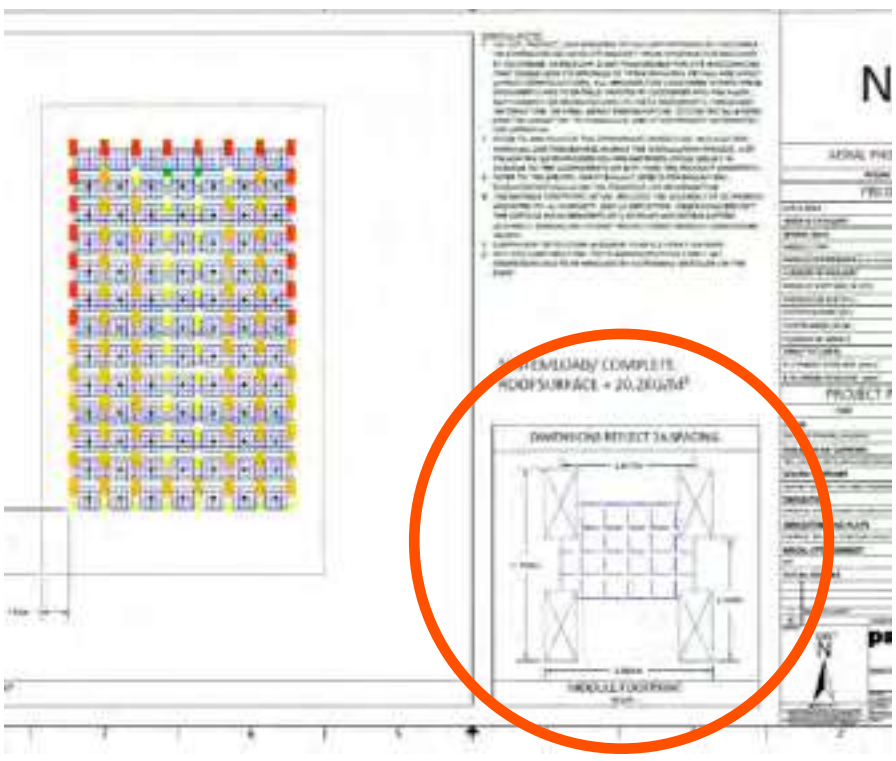


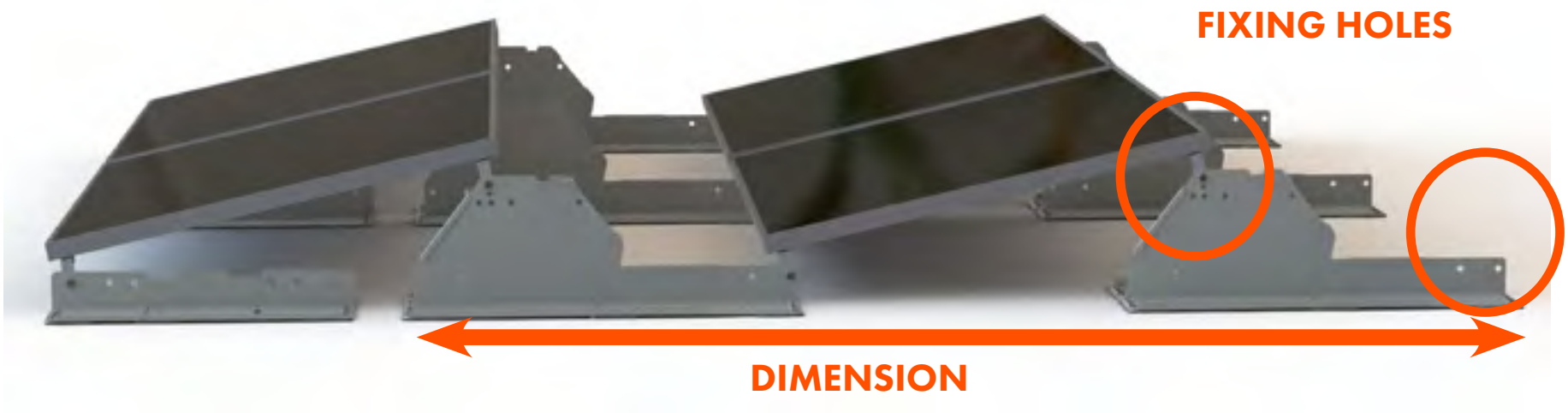
SOUTH SUPPORT

Twist the 2 pieces of the support together until the slots at the top and bottom lock together.

Use the layout to confirm the position of the assembled supports across the roof.







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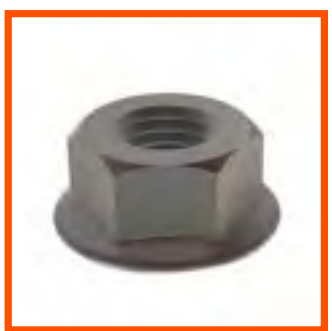
MOUNTING INSTRUCTIONS

SPANNER

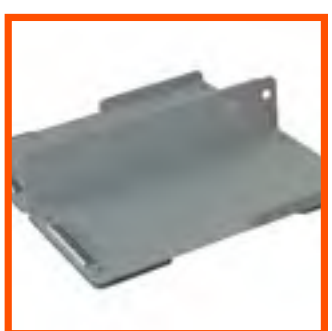
SOCKET WRENCH

M10 X 30 BOLT

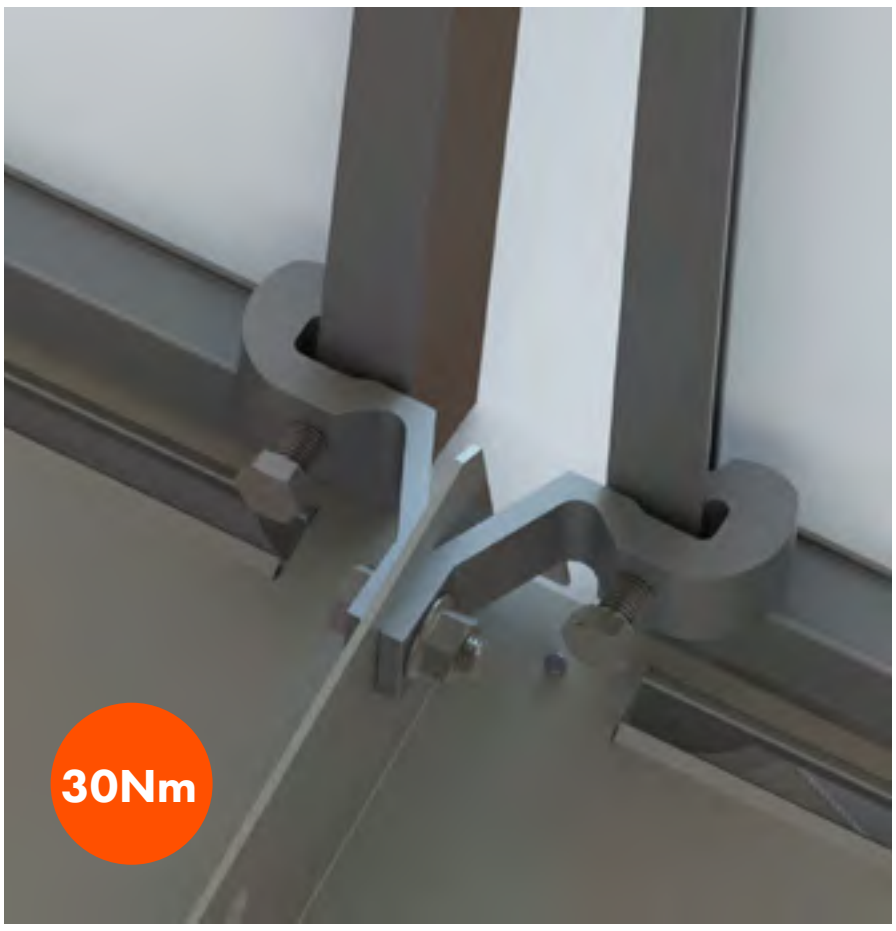


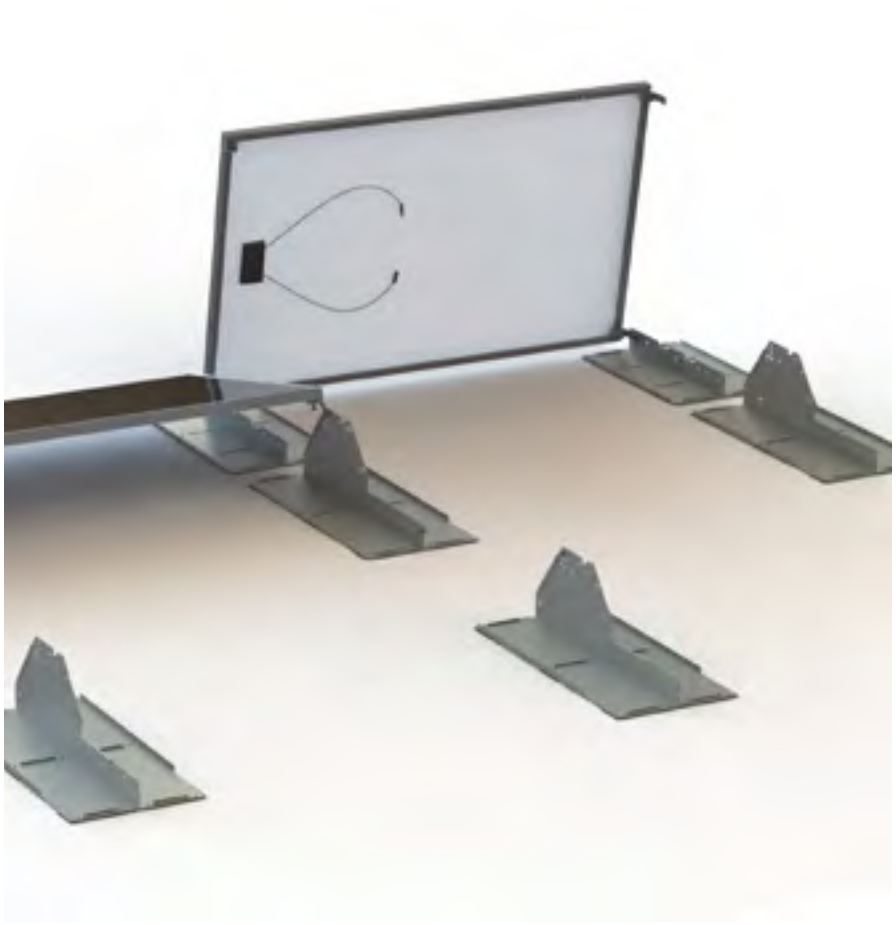
M10 SERRATED NUT

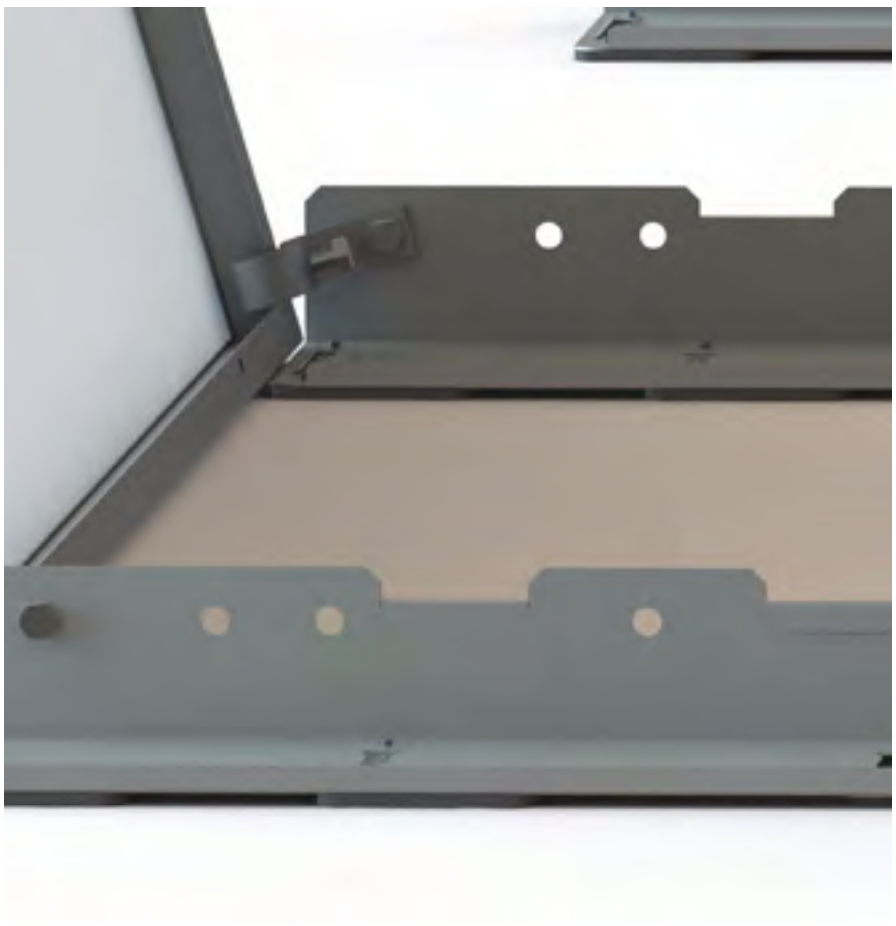
Start from the left of the array.
Push 1x M10 x 30 Bolt through the 1st Module Claw and into the fixing hole on the South Support. Place 2nd Module Claw onto the same M10 x 30 Bolt and secure with a M10 Serrtated Nut.



SOUTH SUPPORT







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MOUNTING INSTRUCTIONS

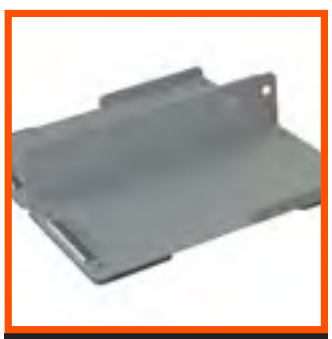
SPANNER

SOCKET WRENCH

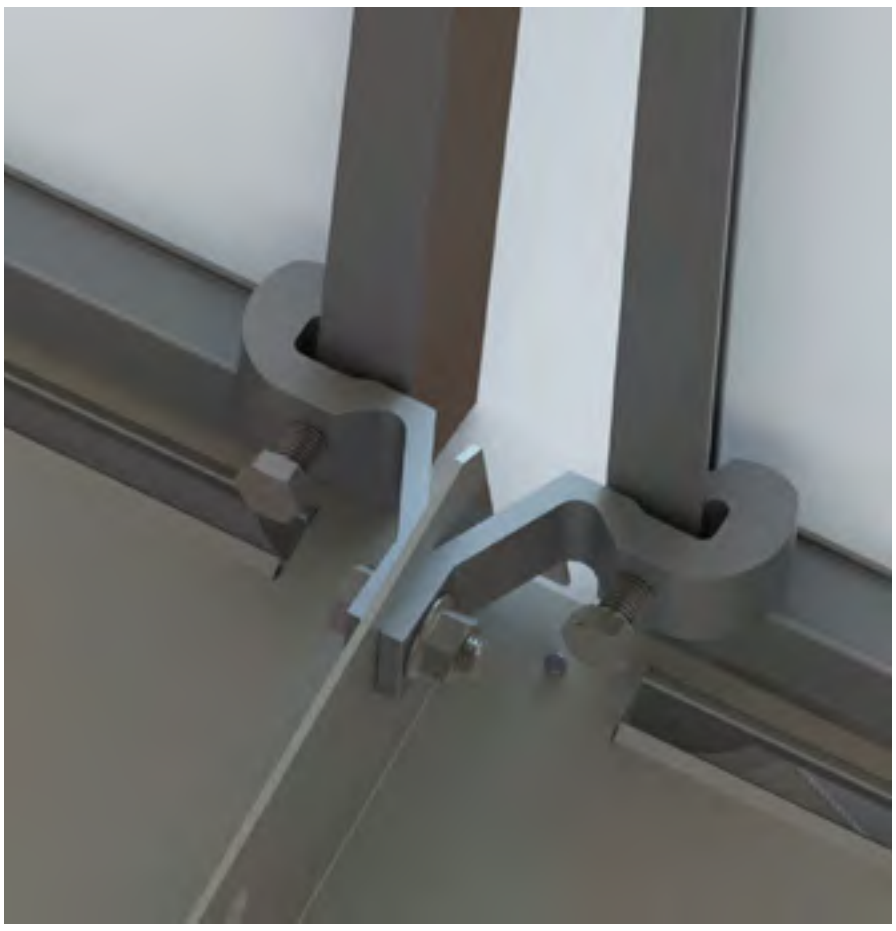
M10 X 30 BOLT

M10 SERRATED NUT

Start from the left of the array.
Push 1x M10 x 30 Bolt through the 1st Module Claw and into the fixing hole on the N/S Support. Place 2nd Module Claw onto the same M10 x 30 Bolt and secure with a M10 Serrtated Nut.



N/S SUPPORT



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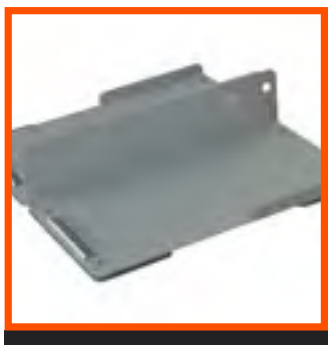
MOUNTING INSTRUCTIONS

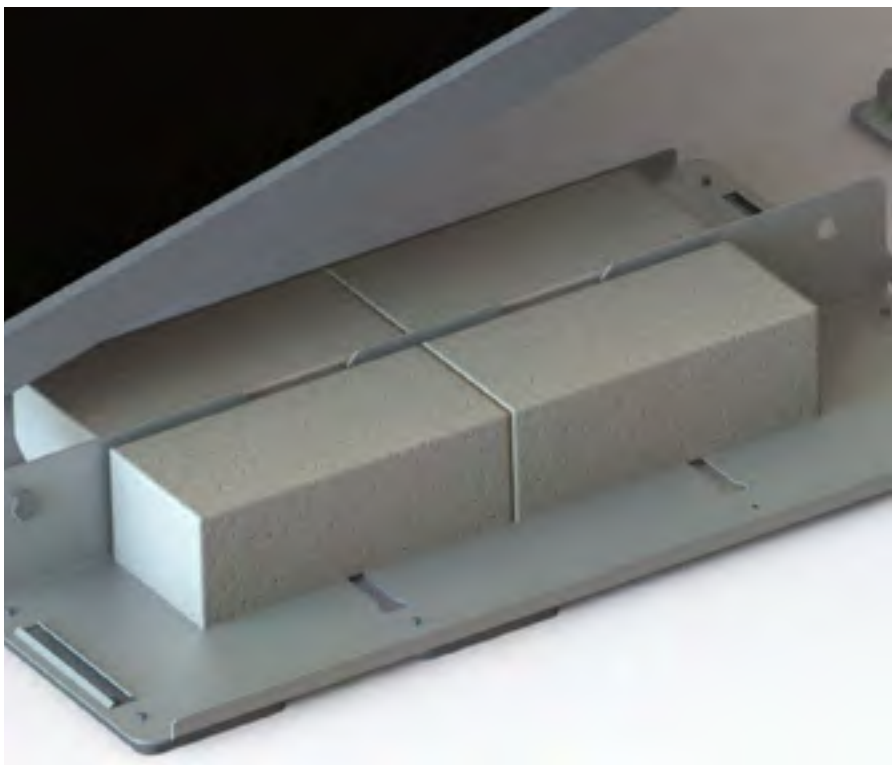
LAYOUT

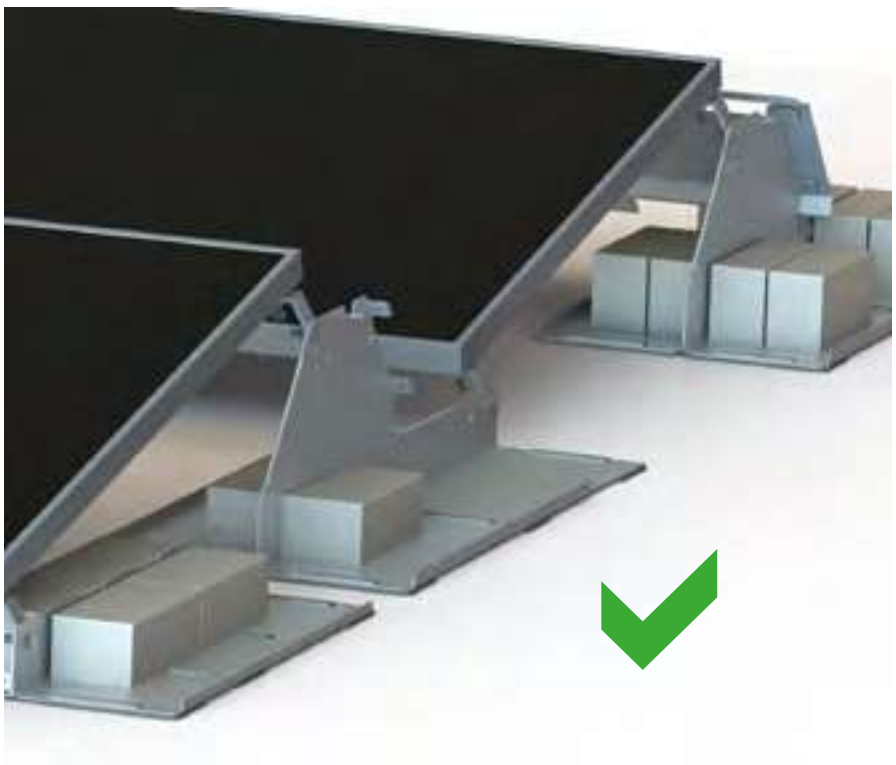
N/S SUPPORT

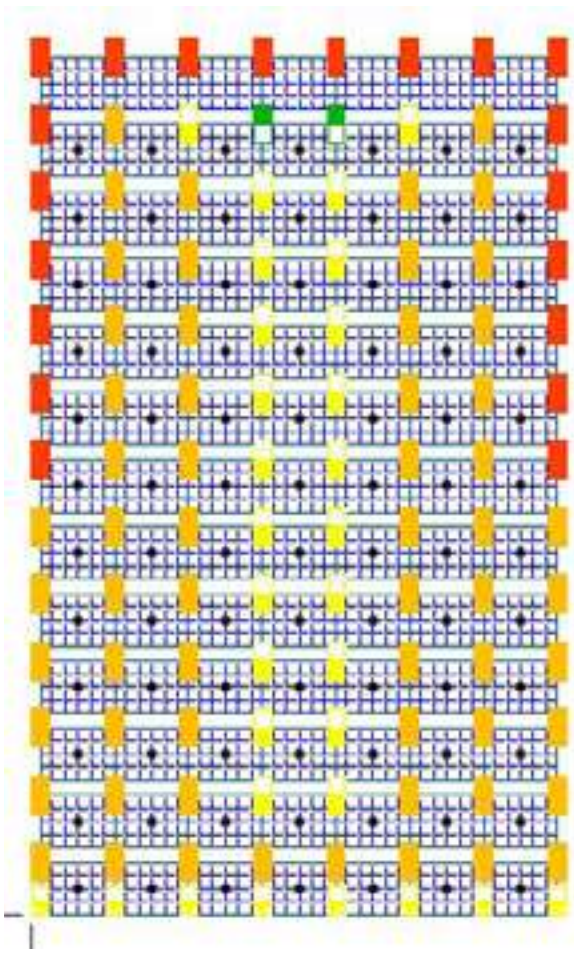


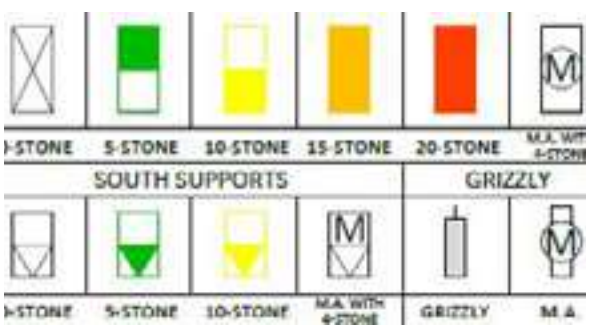
SOUTH SUPPORT

BALLAST









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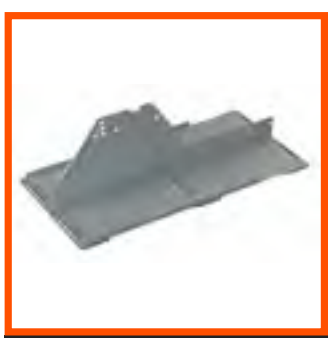
MOUNTING INSTRUCTIONS

LAYOUT

SOCKET WRENCH

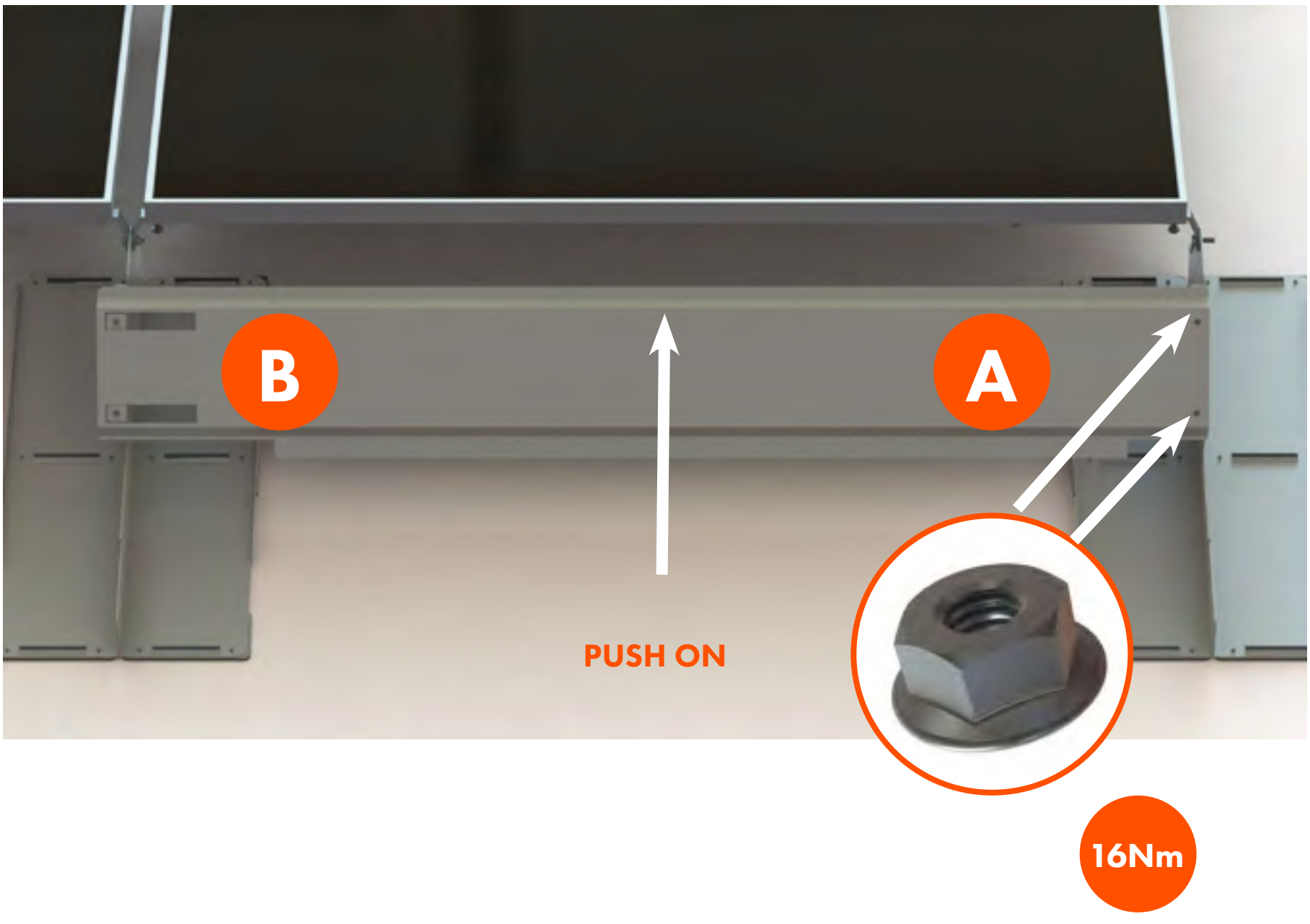


N/S SUPPORT

WIND DEFLECTOR

M6 SERRATED NUT

Push the Wind Deflector onto the back of the N/S Supports.
Make sure the holes go over the threads on the back of the N/S Supports.
Secure side A ONLY with 1x M6 Serrated Nut for each thread.



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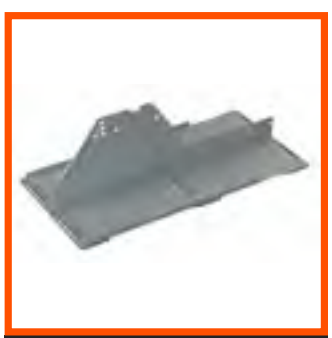
MOUNTING INSTRUCTIONS

LAYOUT

SOCKET WRENCH

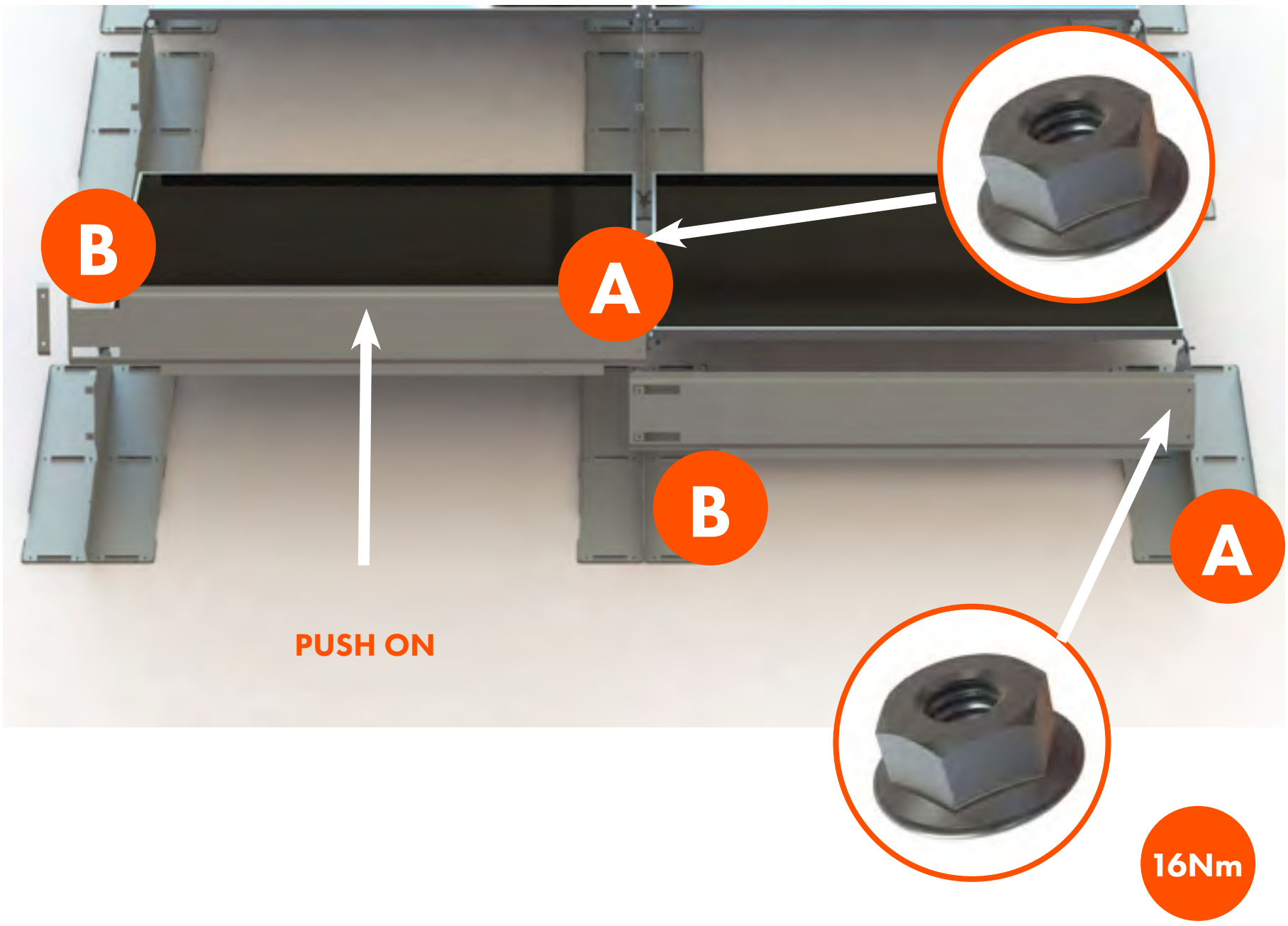


N/S SUPPORT

WIND DEFLECTOR

M6 SERRATED NUT

Push the 2nd Wind Deflector onto the back of the NS Supports.
Make sure that side A fits over side B of the 1st Wind Deflector.
Secure side A of the 2nd Wind Deflector ONLY with 1x M6 Serrated Nut for each thread.



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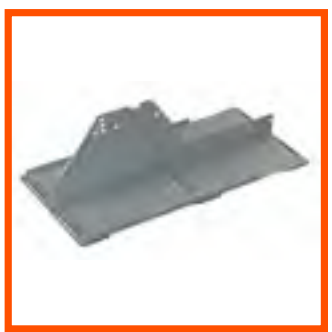
MOUNTING INSTRUCTIONS

END PLATE

SOCKET WRENCH

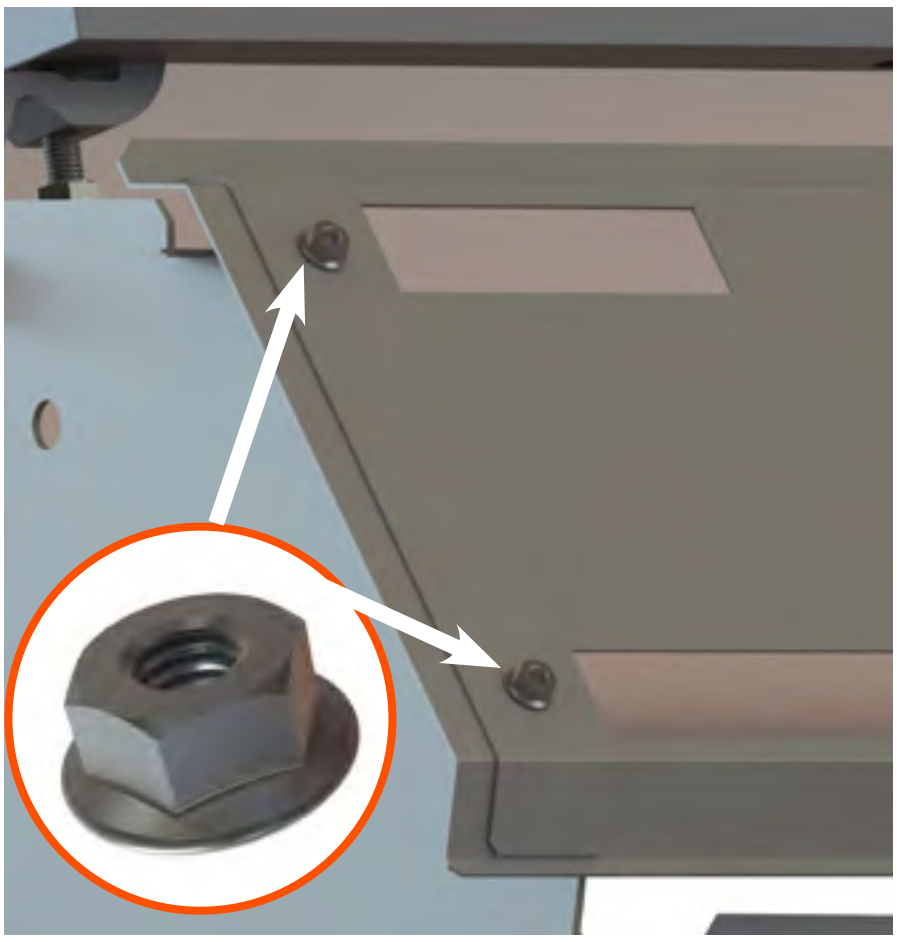


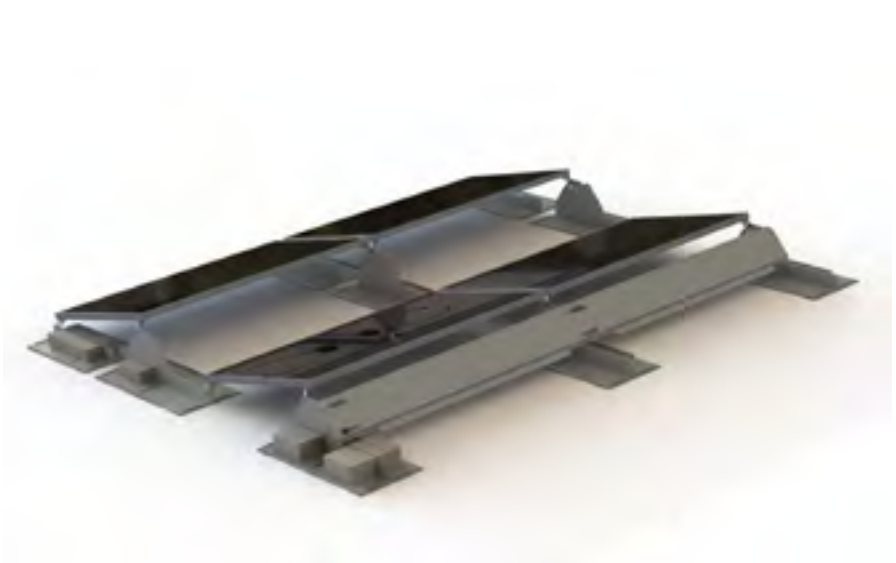
N/S SUPPORT

WIND DEFLECTOR

At the end of a row of Wind Deflectors,
position 1x End Plate over side B of the last Wind Deflector.
Make sure the curve faces the Wind Deflector.
Secure the End Plate into position with
1x M6 Serrated Nut for each thread.

M6 SERRATED NUT





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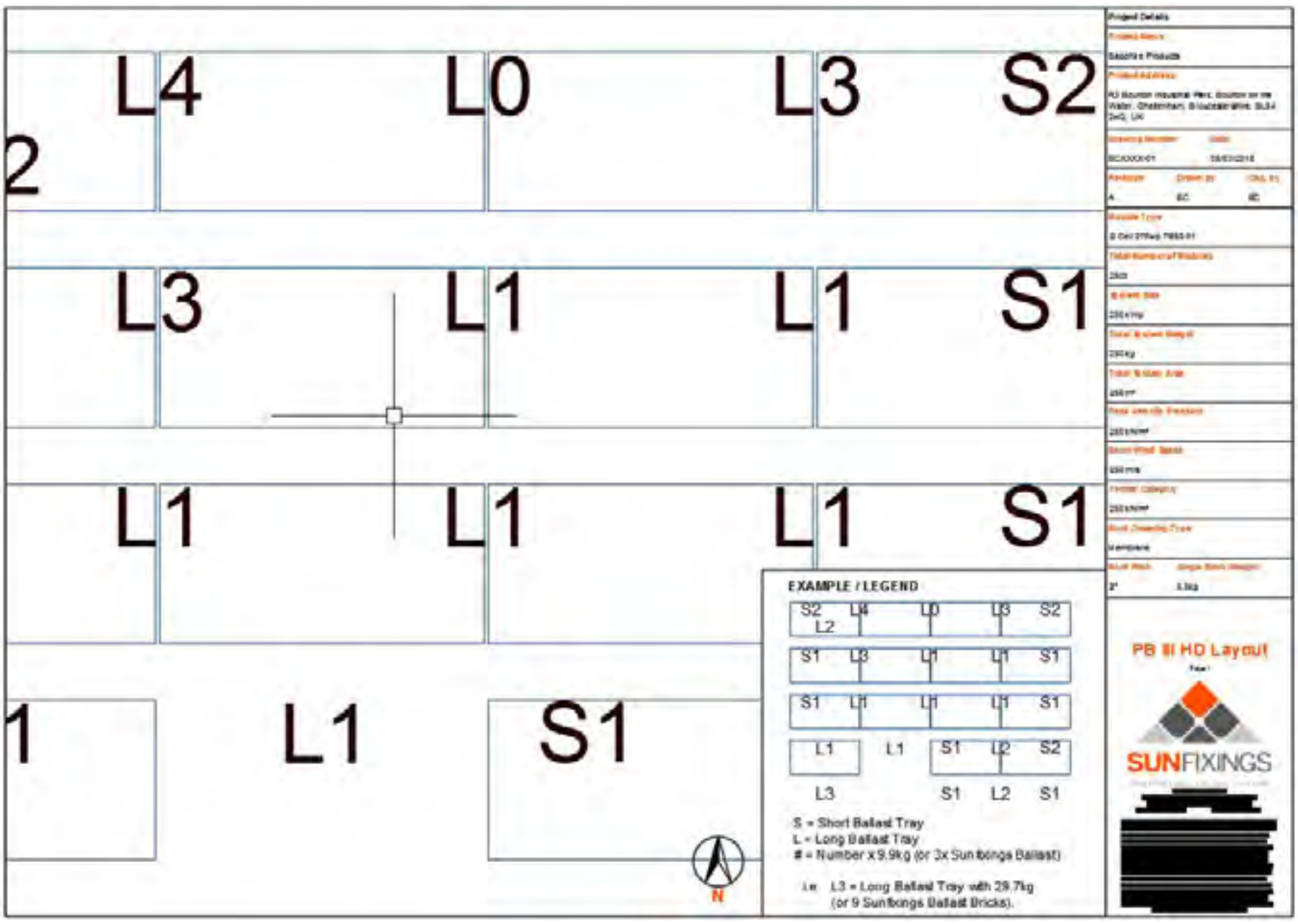
MOUNTING INSTRUCTIONS

LAYOUT

Use the layout to:
1. confirm the position of the solar panels
2. check the number of components needed for each array



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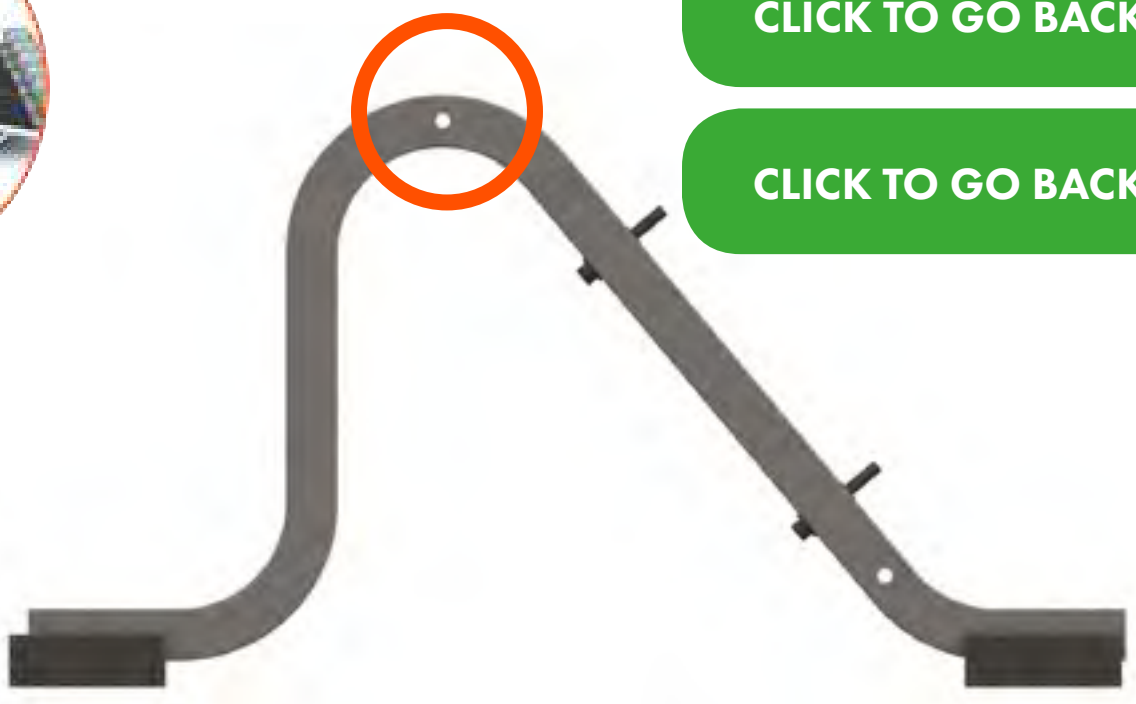
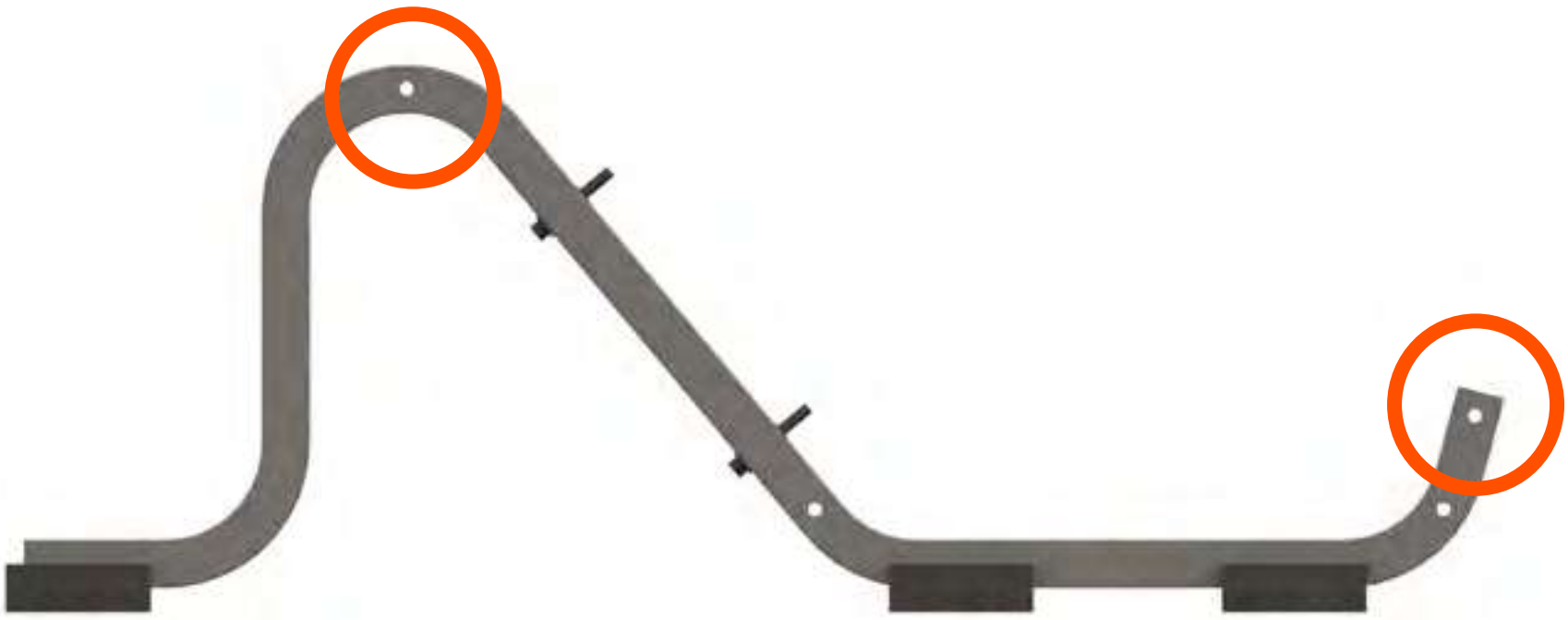


NORTH SUPPORT



STANDARD SUPPORT

SOUTH SUPPORT

CLAW

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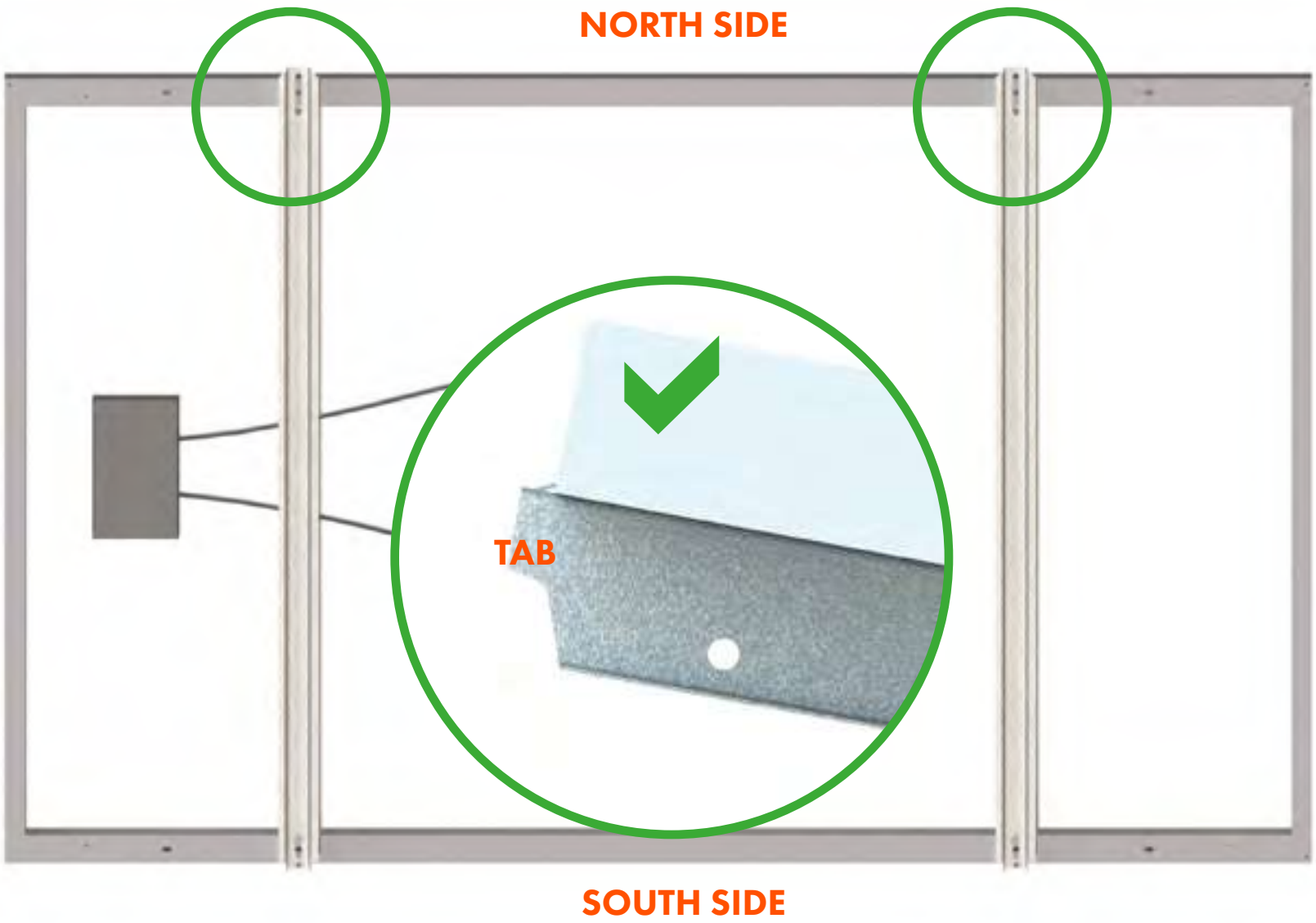
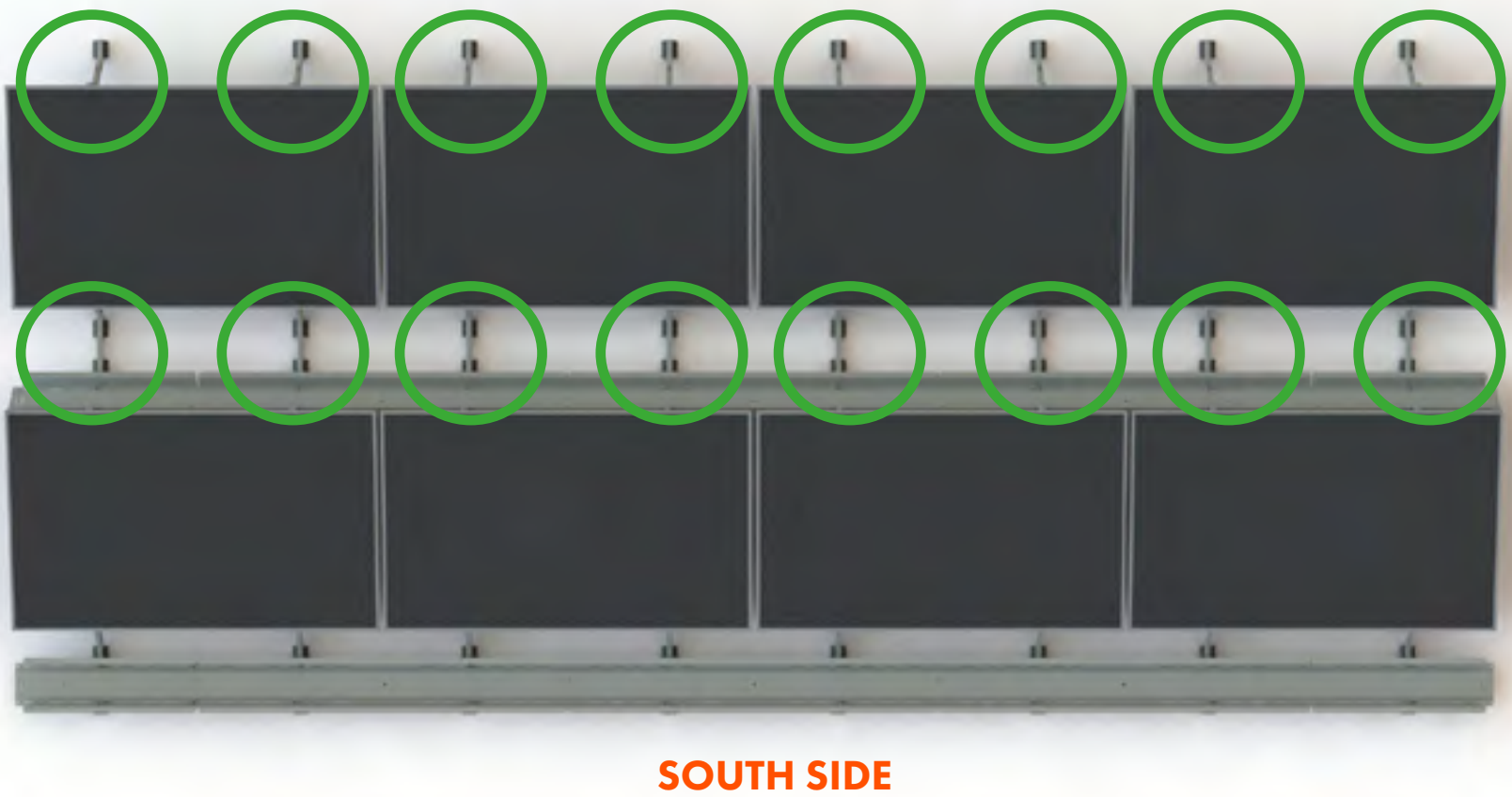
MOUNTING INSTRUCTIONS

Ensure the TAB is located on the NORTH SIDE of the solar panel.





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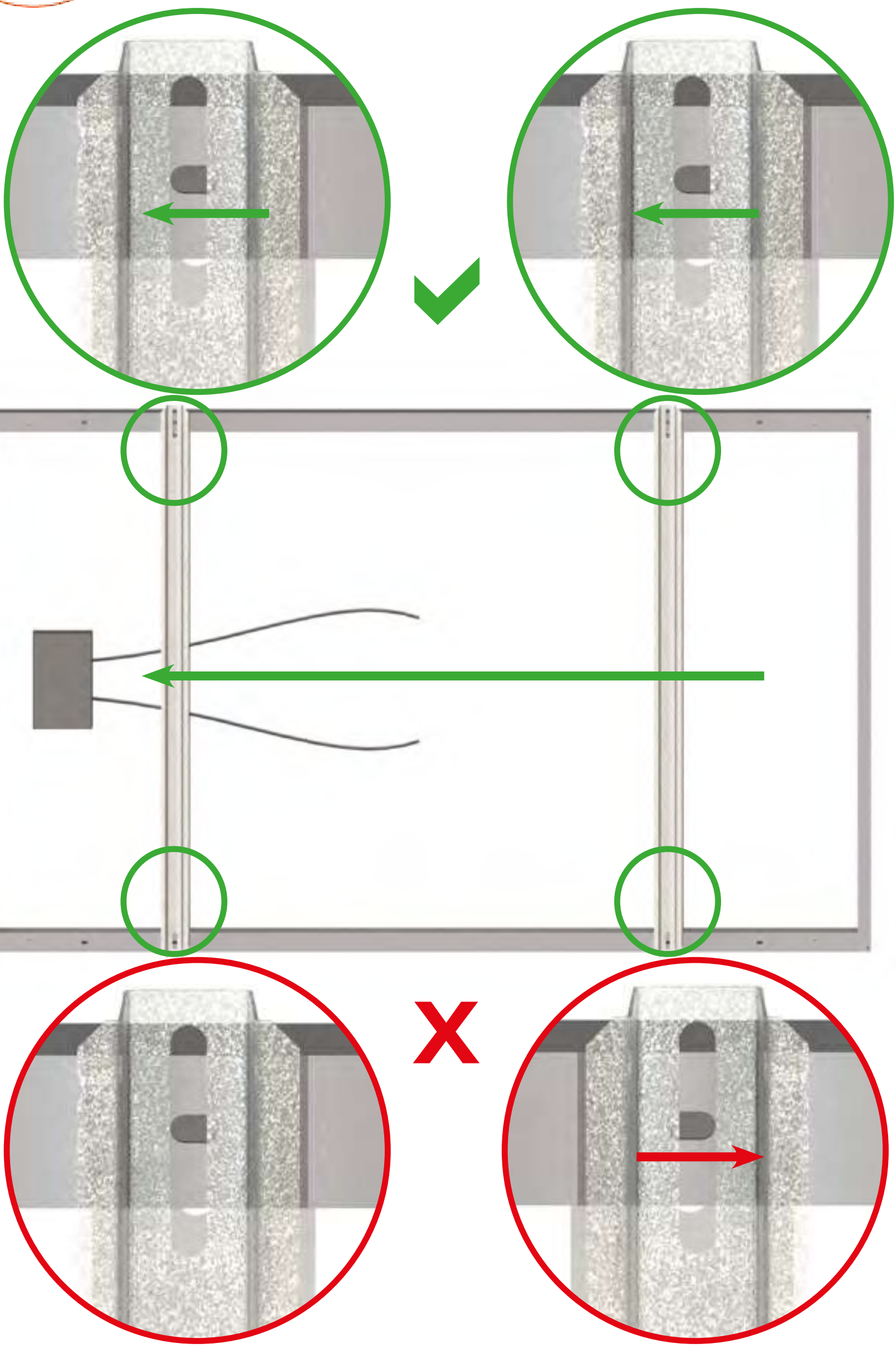
Refer to dimension Q on the layout.
Position Claws on the solar panels so that the fixing hole is located towards the junction box.



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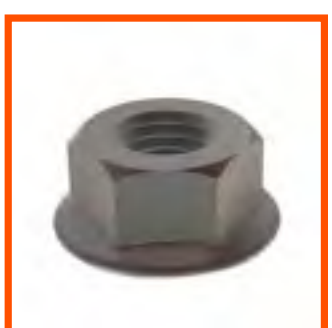
MOUNTING INSTRUCTIONS

SPANNER (NUTS)

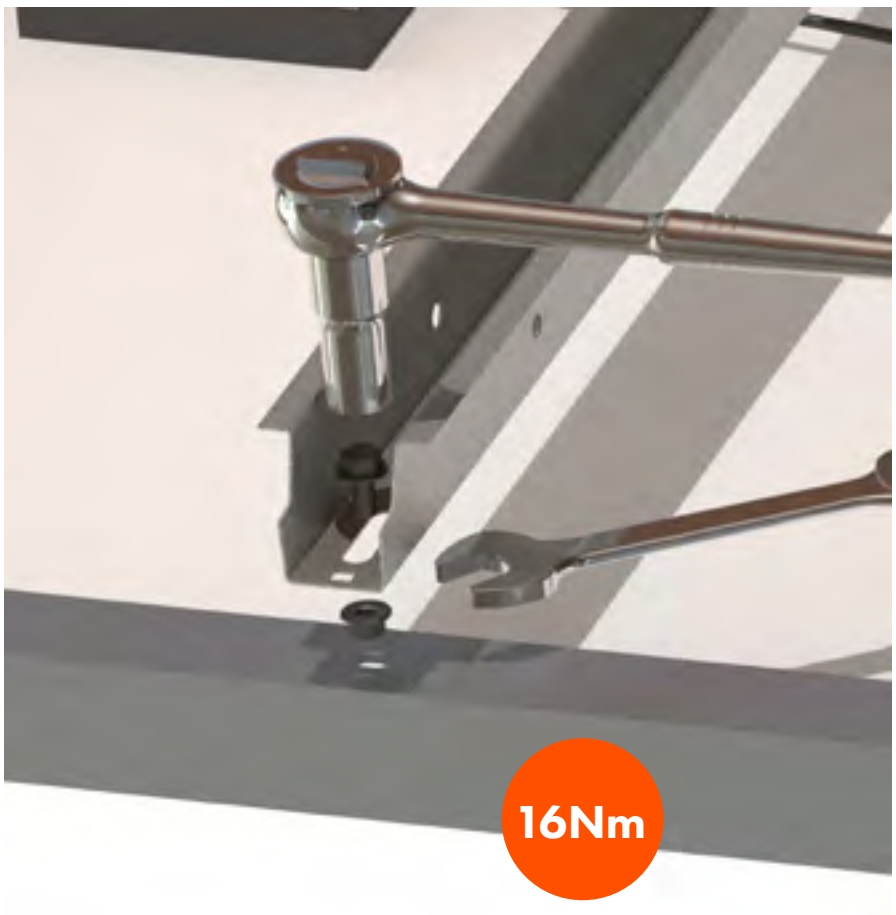
SOCKET WRENCH (BOLTS)

CLAW

SHORT BOLT



SERRATED NUT



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MOUNTING INSTRUCTIONS

LAYOUT

TAPE MEASURE

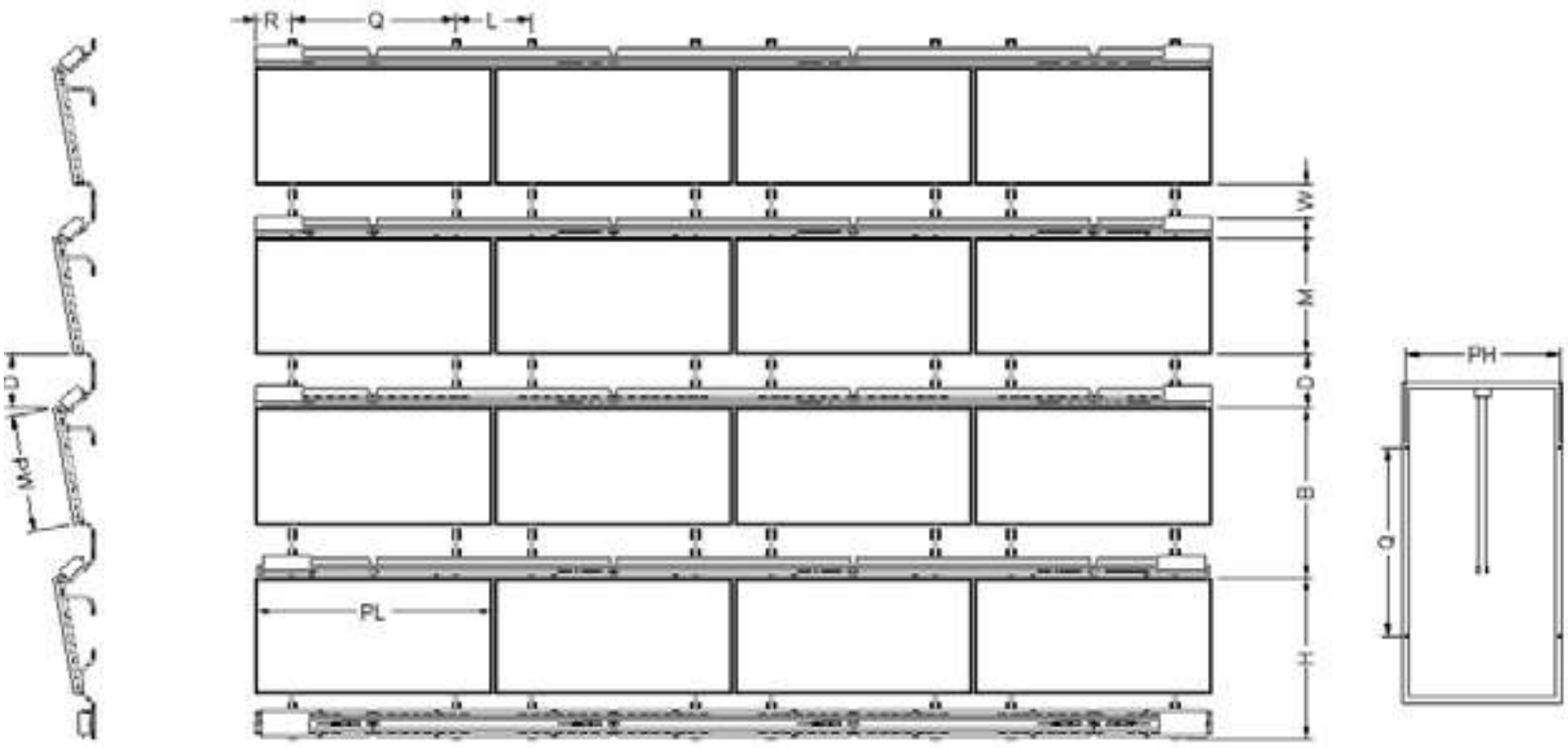
STRING LINE

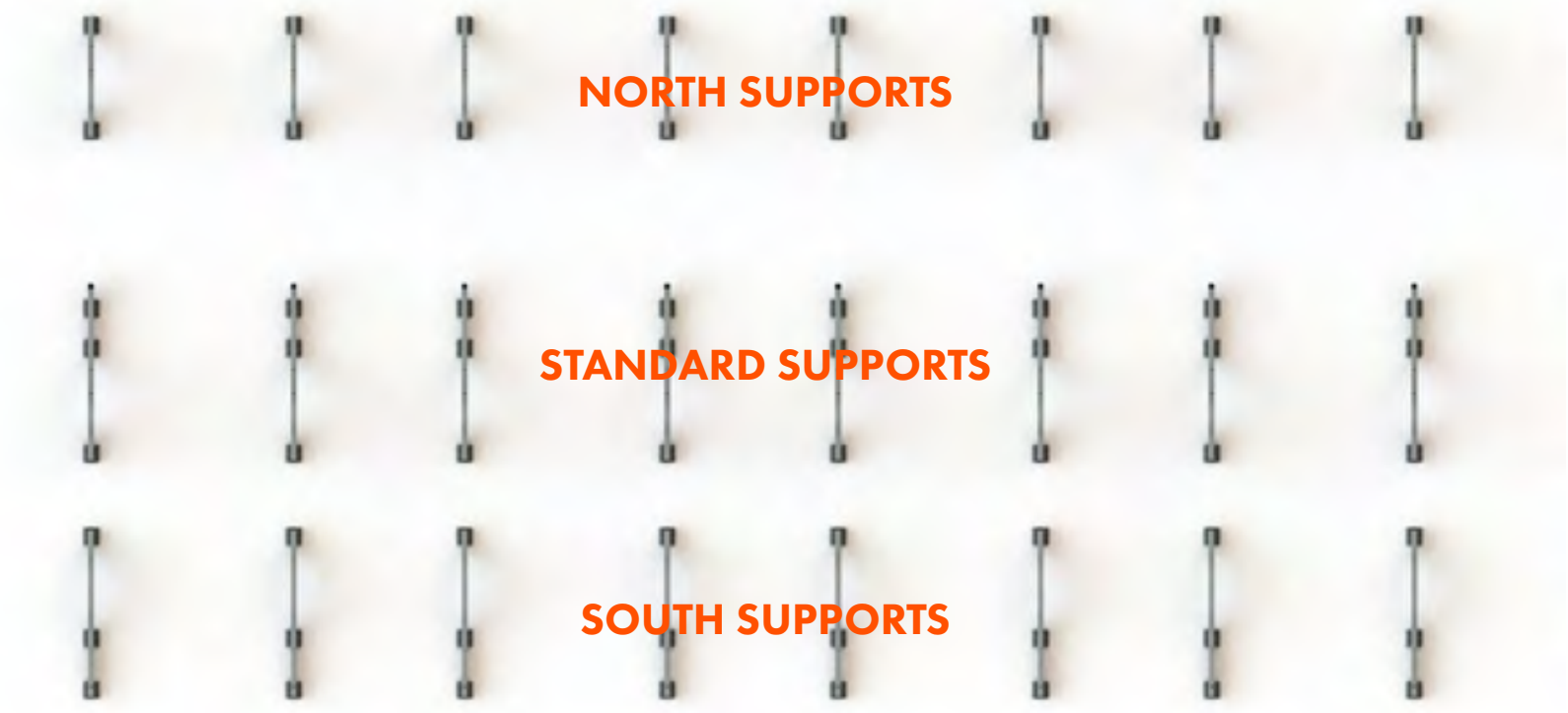
SOUTH SUPPORT

Refer to the layout and use dimensions:
R, Q, L, H, B, D, M & W
to set out the supports.

NORTH SUPPORT

STANDARD SUPPORT





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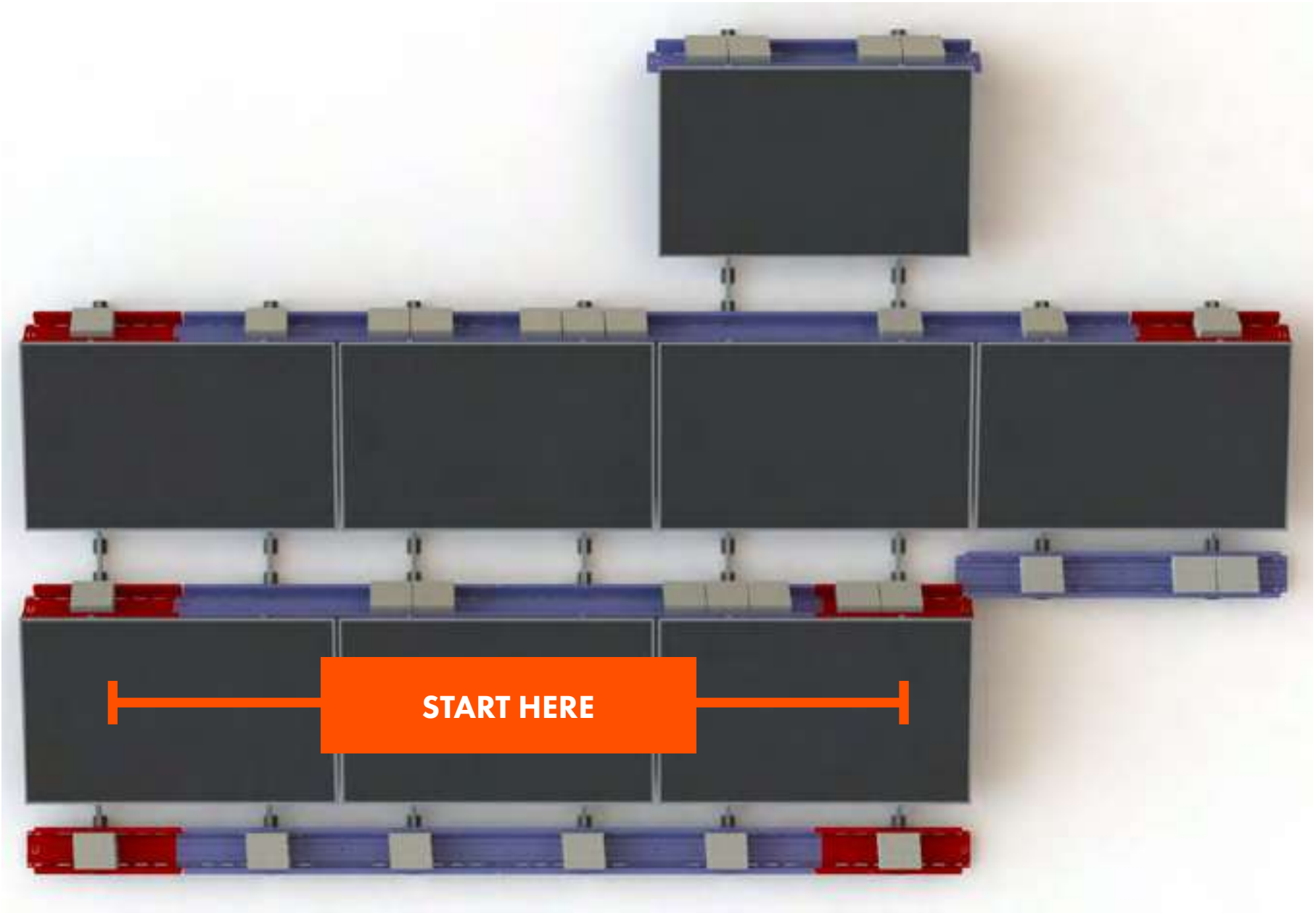

SOUTH SIDE

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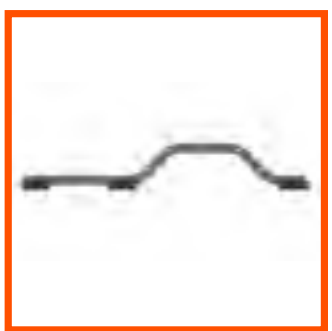
MOUNTING INSTRUCTIONS

SOCKET WRENCH

SPANNER

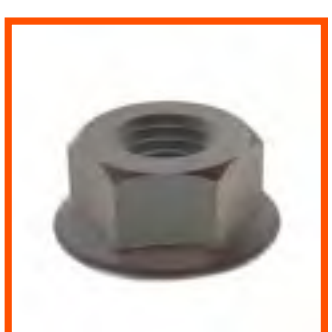
CLAW



SOUTH SUPPORT

For initial fixing you can use a battery drill, but use a socket wrench and torque wrench to ensure the correct torque setting.

LONG BOLT



SERRATED NUT

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MOUNTING INSTRUCTIONS

SOCKET WRENCH

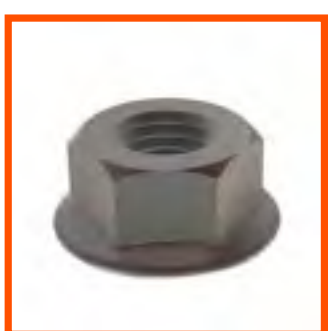
SPANNER

CLAW

STANDARD SUPPORT

For initial fixing you can use a battery drill, but use a socket wrench and torque wrench to ensure the correct torque setting.

LONG BOLT



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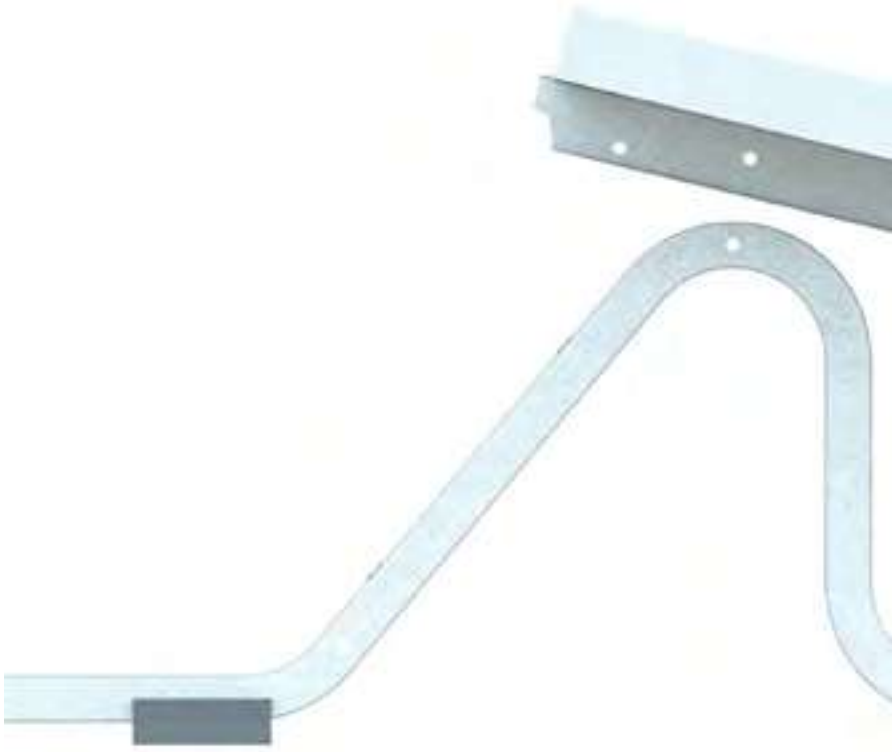

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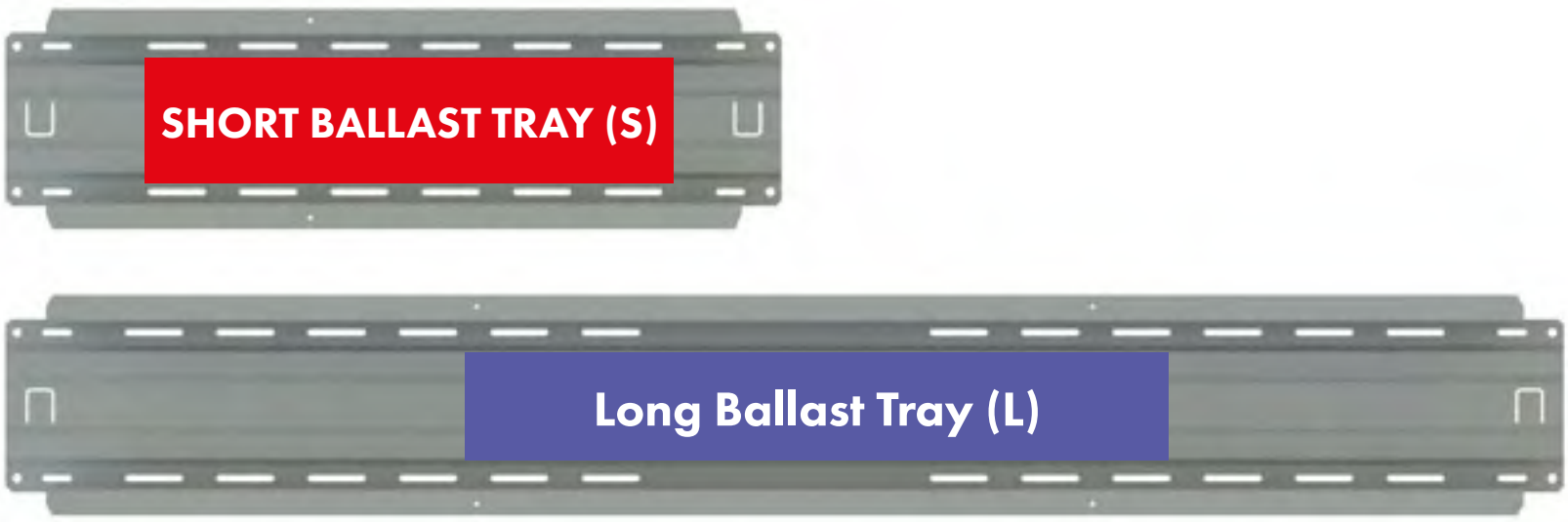
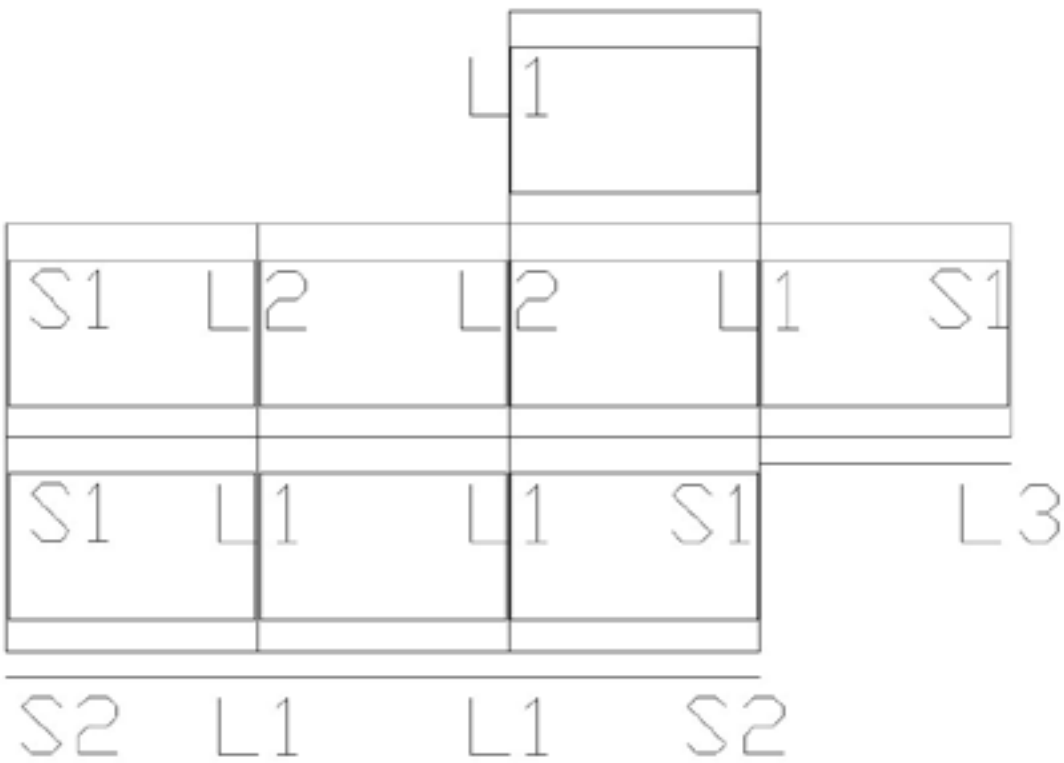
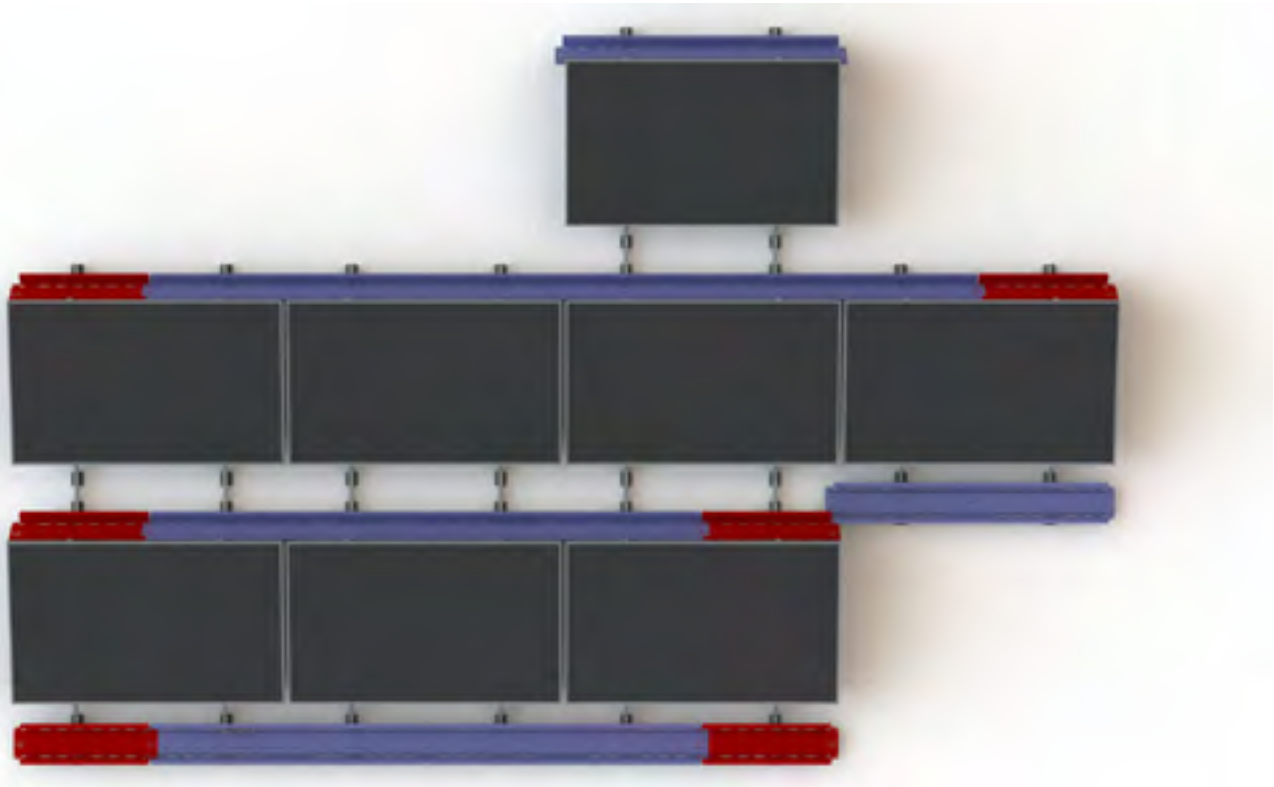
MOUNTING INSTRUCTIONS

Refer to the layout as to where the Short and Long Ballast Trays need to be positioned on the south row.







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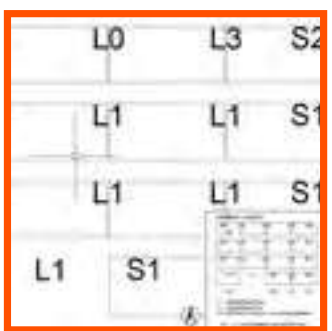
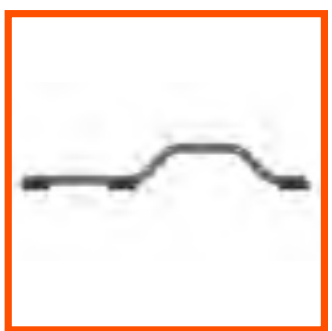
MOUNTING INSTRUCTIONS

SOCKET WRENCH



LAYOUT

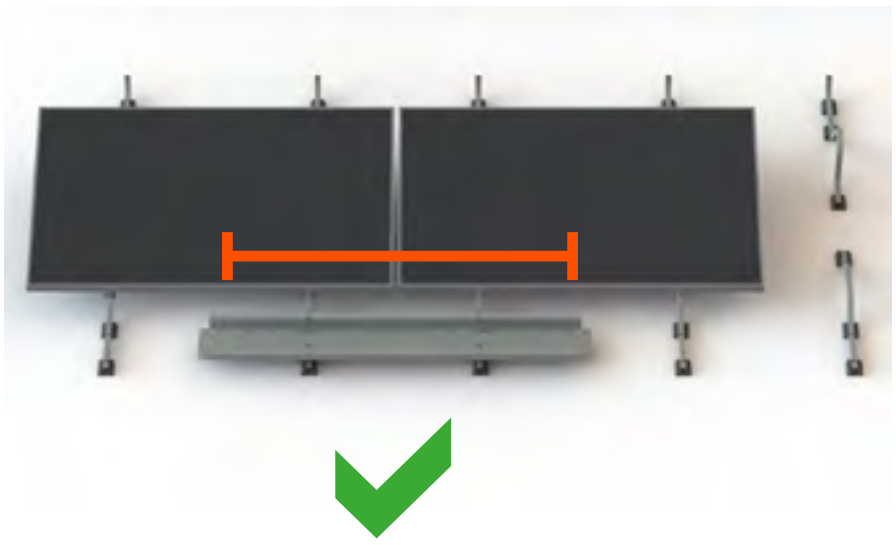
LONG BALLAST TRAY

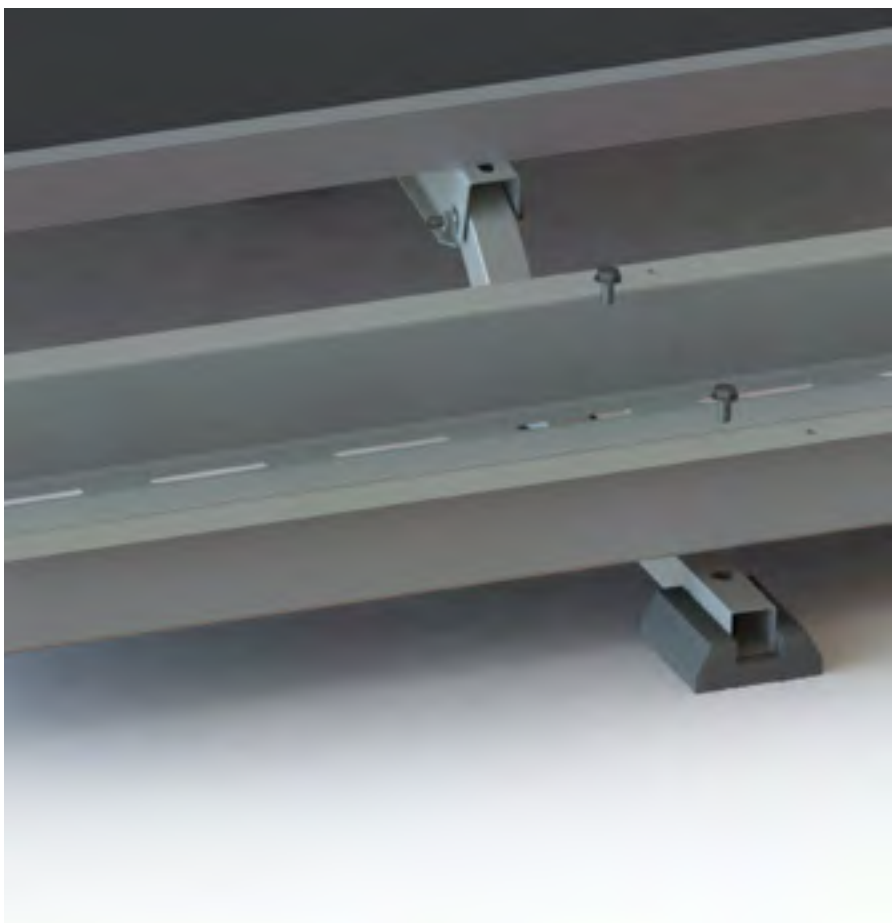


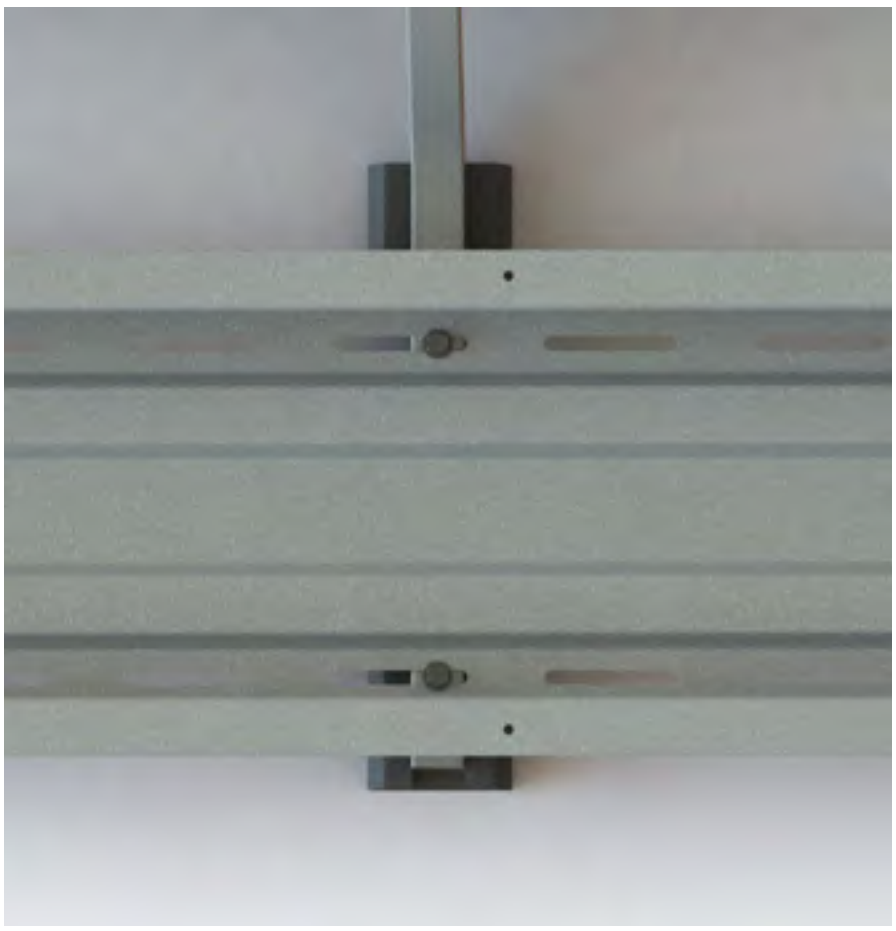
SOUTH SUPPORT

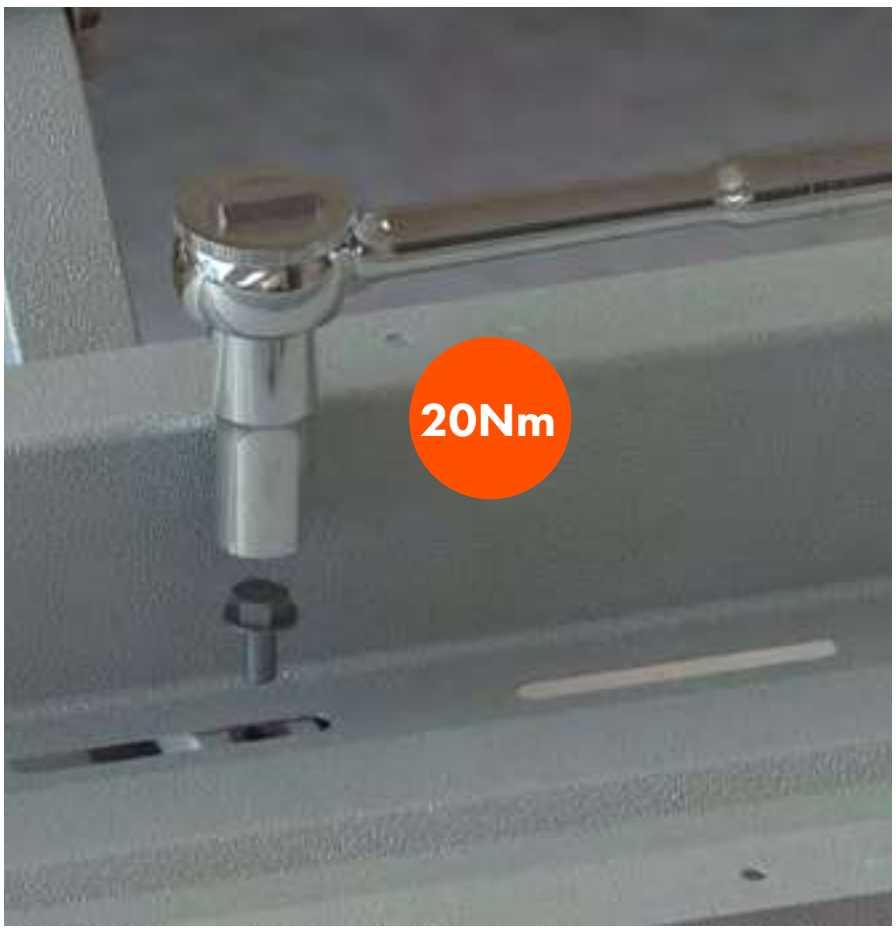
The Long Ballast Tray needs to cross 2 solar panels.
Repeat this step for all other Long Ballast Trays on the South Supports.
For initial fixing, you can use a battery drill, but use a socket wrench and torque wrench to ensure correct torque setting.

SHORT BOLT









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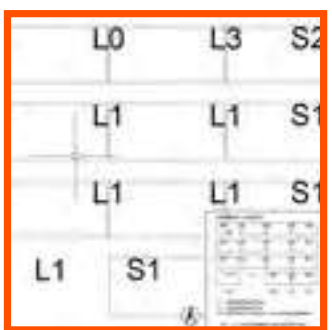
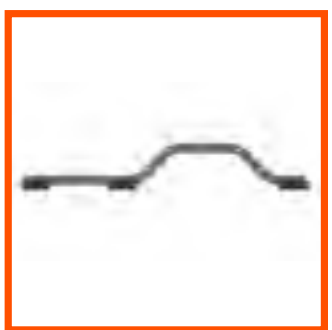
MOUNTING INSTRUCTIONS

SOCKET WRENCH



LAYOUT

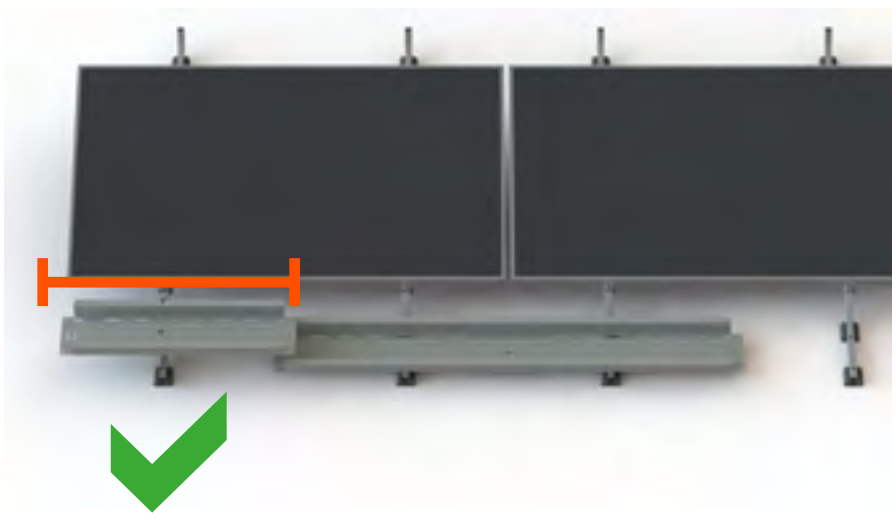
SHORT BALLAST TRAY

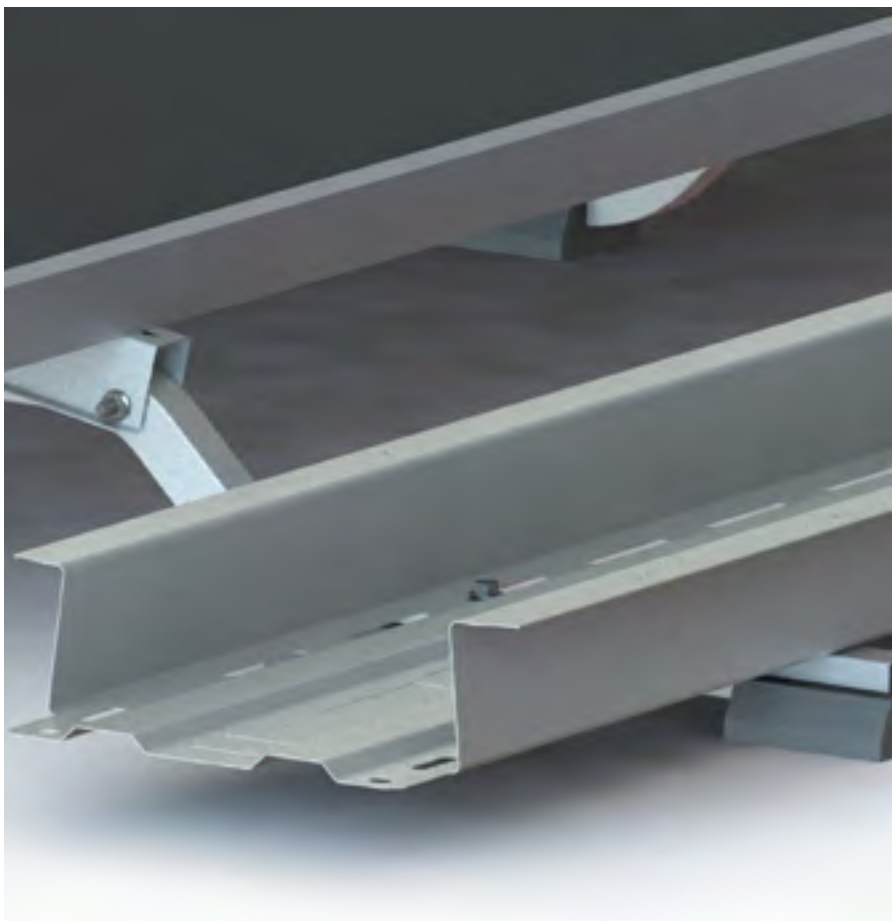


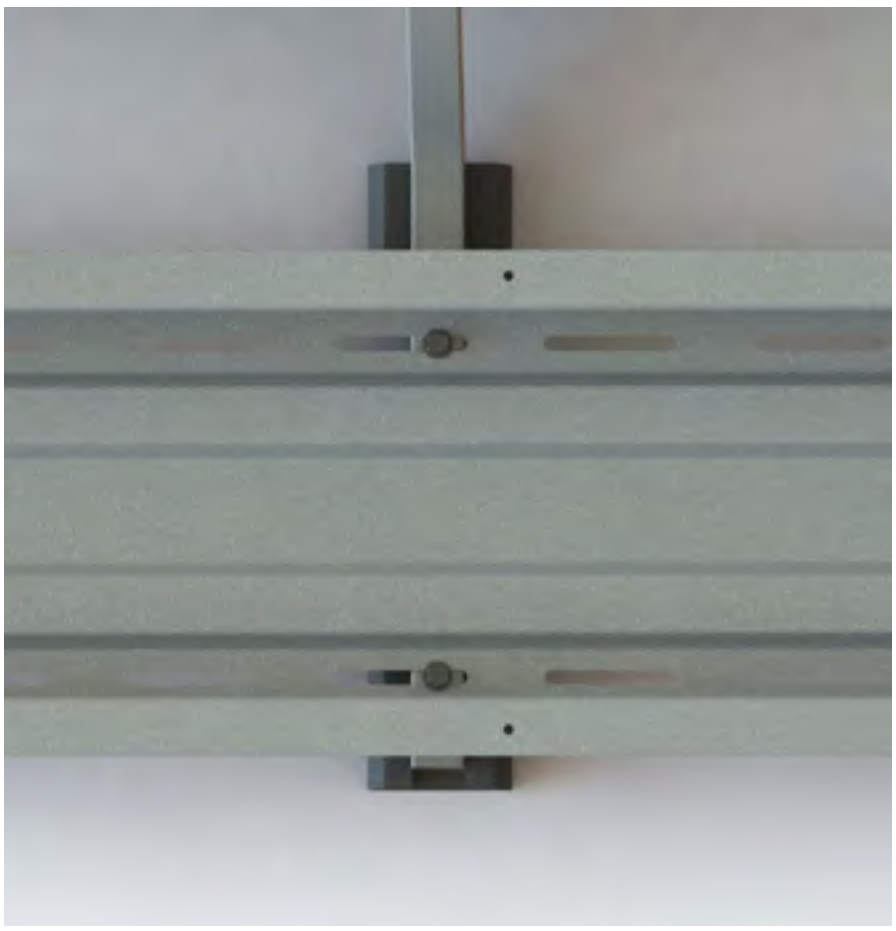
SOUTH SUPPORT

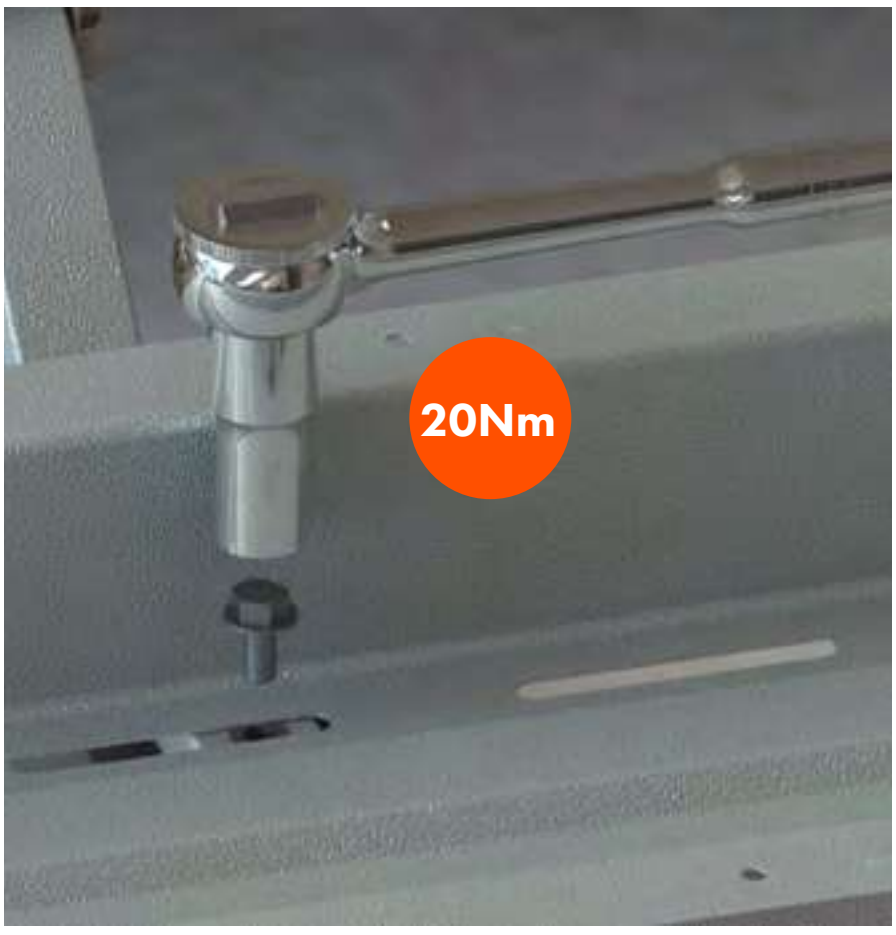
The Short Ballast Tray needs to cross the last support of the southern row.
Repeat this for the other side of the row.
For initial fixing, you can use a battery drill, but use a socket wrench and torque wrench to ensure correct torque setting.

SHORT BOLT









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MOUNTING INSTRUCTIONS

SOCKET WRENCH

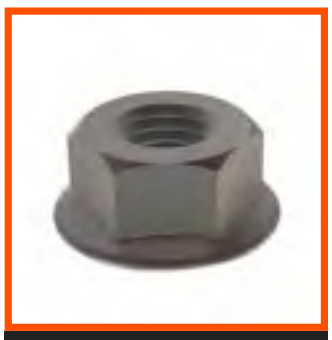
SPANNER

LONG BALLAST TRAY

SHORT BALLAST TRAY

Only bolt Short Ballast Trays to Long Ballast Trays. DO NOT bolt Long Ballast Trays to other Long Ballast Trays.
For initial fixing, you can use a battery drill, but use a socket wrench and torque wrench to ensure correct torque wrench.

LONG BOLT



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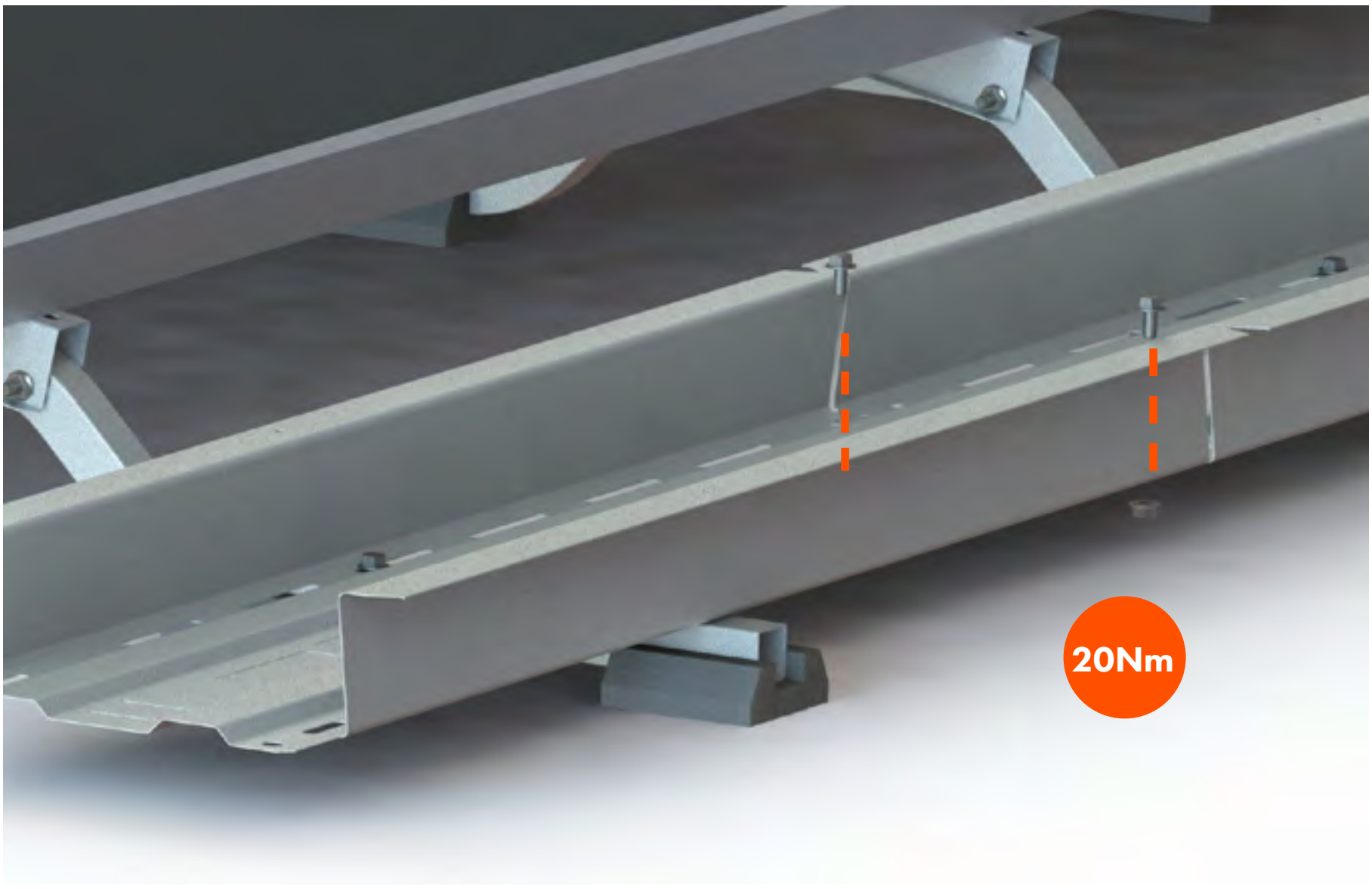

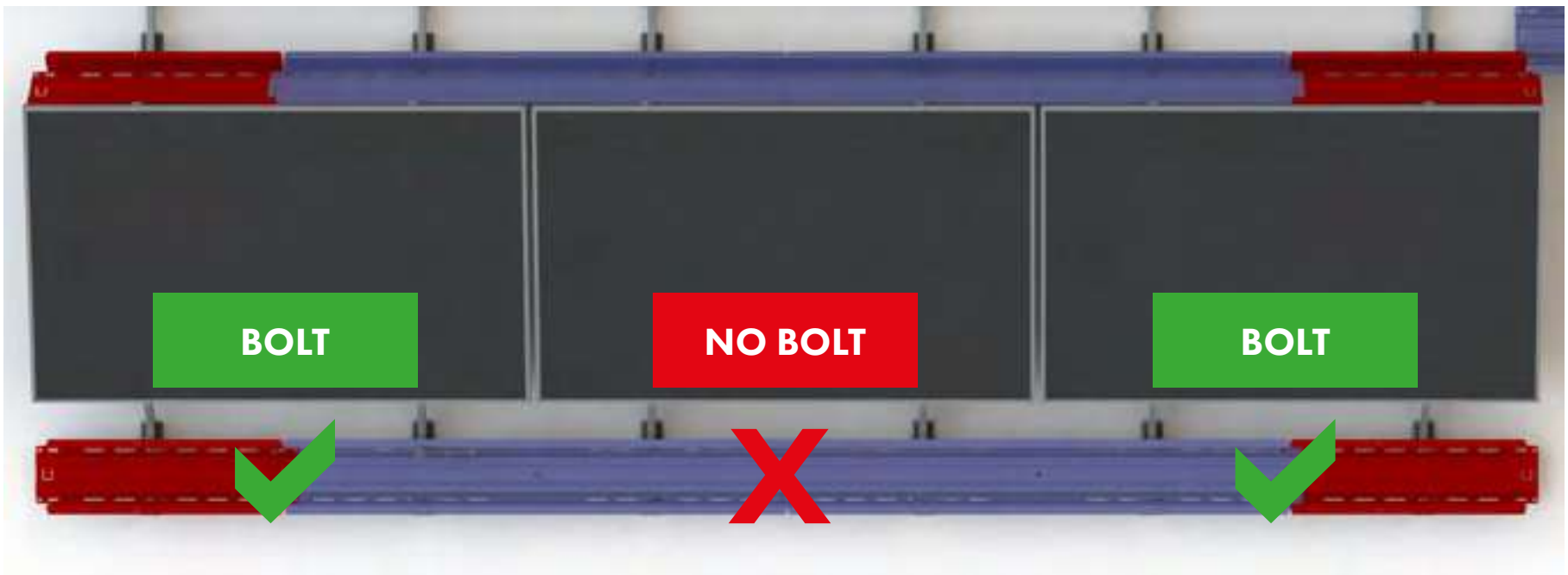

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MOUNTING INSTRUCTIONS

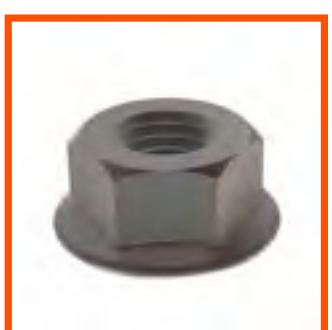
SOCKET WRENCH

LAYOUT

LONG BALLAST TRAY

STANDARD & NORTH SUPPORT

The Long Ballast Tray needs to cross 2 solar panels.
Repeat this step for all other Long Ballast Trays on the back of the solar panels.
For initial fixing, you can use a battery drill, but use a socket wrench and torque wrench to ensure correct torque setting.



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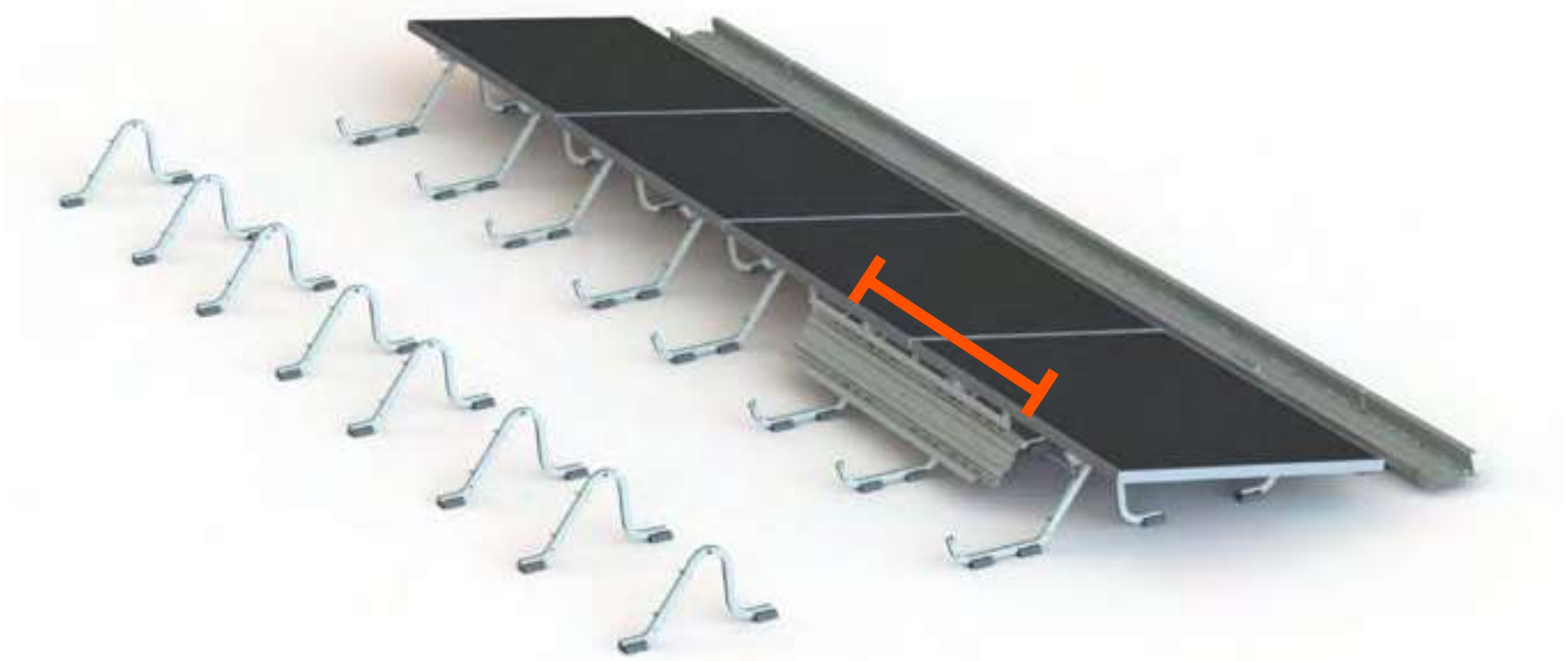

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MOUNTING INSTRUCTIONS

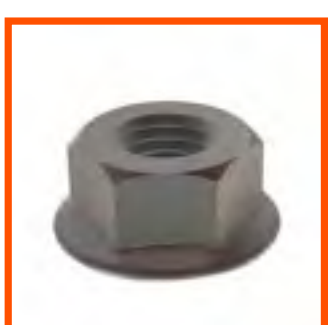
SOCKET WRENCH

LAYOUT

SHORT BALLAST TRAY

STANDARD & NORTH SUPPORT

The Short Ballast Tray needs to cross the last support of a row.
Repeat this for the other side of the row.
For initial fixing, you can use a battery drill, but use a socket wrench and torque wrench to ensure correct torque setting.



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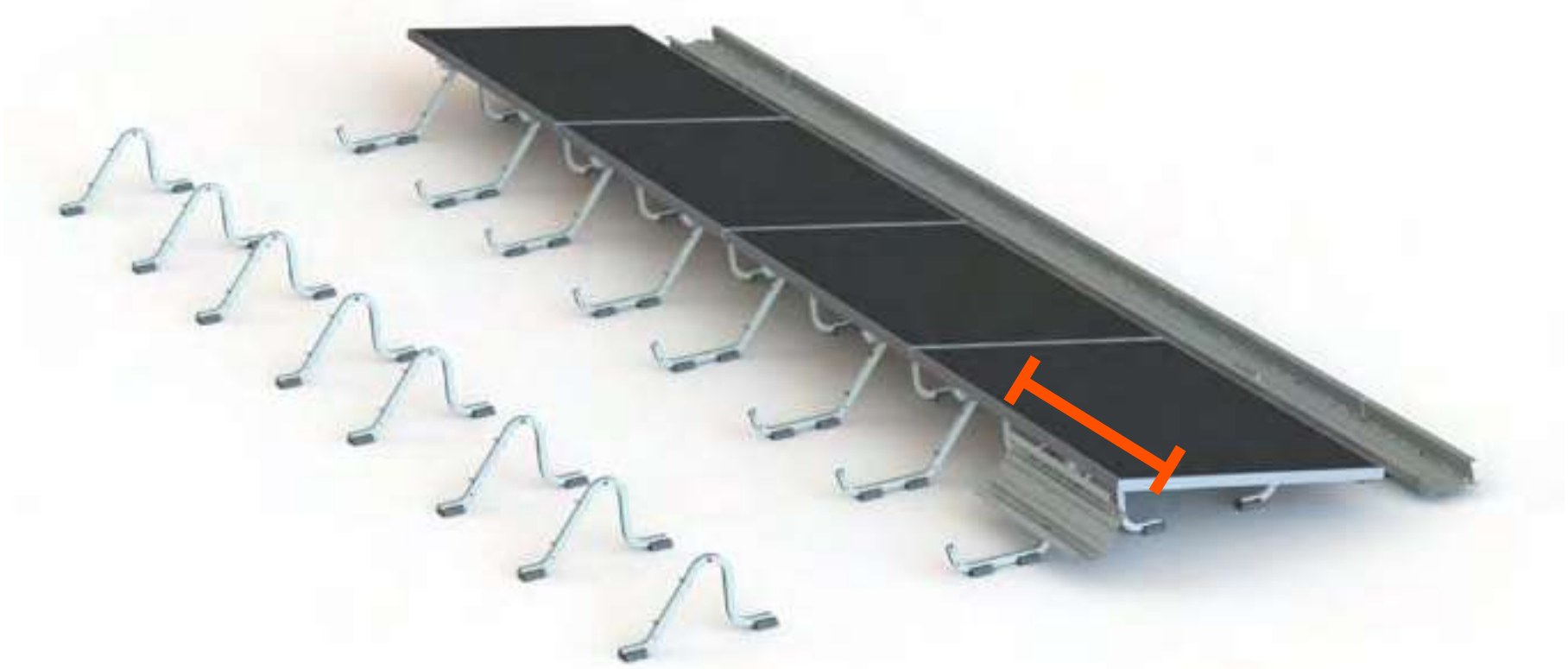

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MOUNTING INSTRUCTIONS

SOCKET WRENCH

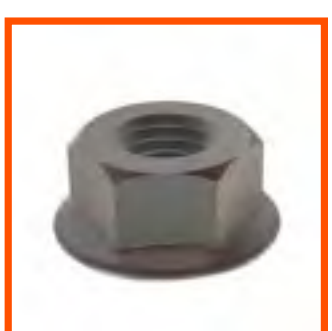
SPANNER

SHORT BALLAST TRAY

LONG BALLAST TRAY

Only bolt Short Ballast Trays to Long Ballast Trays. DO NOT bolt Long Ballast Trays to other Long Ballast Trays.
For initial fixing, you can use a battery drill, but use a socket wrench and torque wrench to ensure correct torque wrench.

SHORT BOLT



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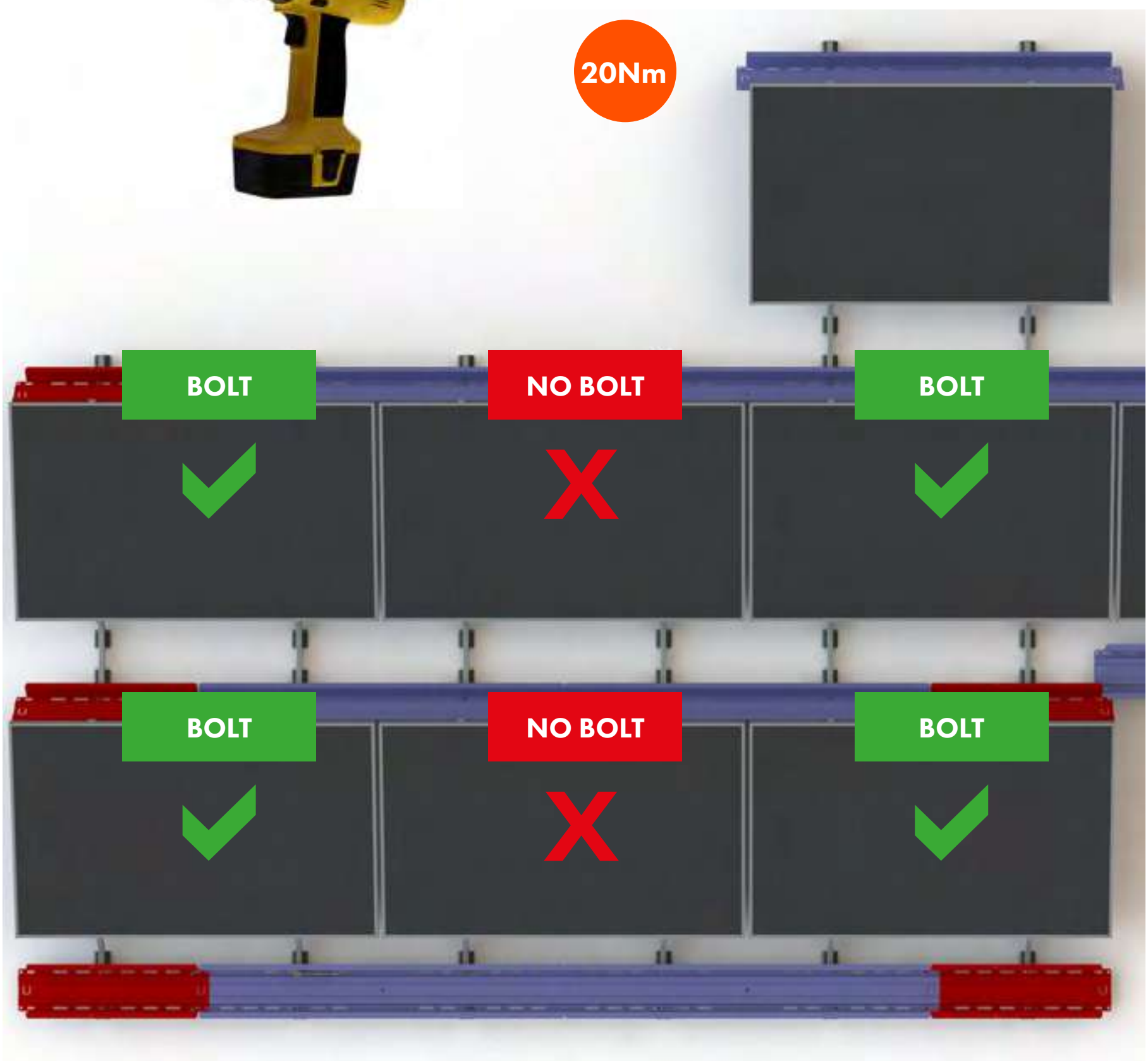

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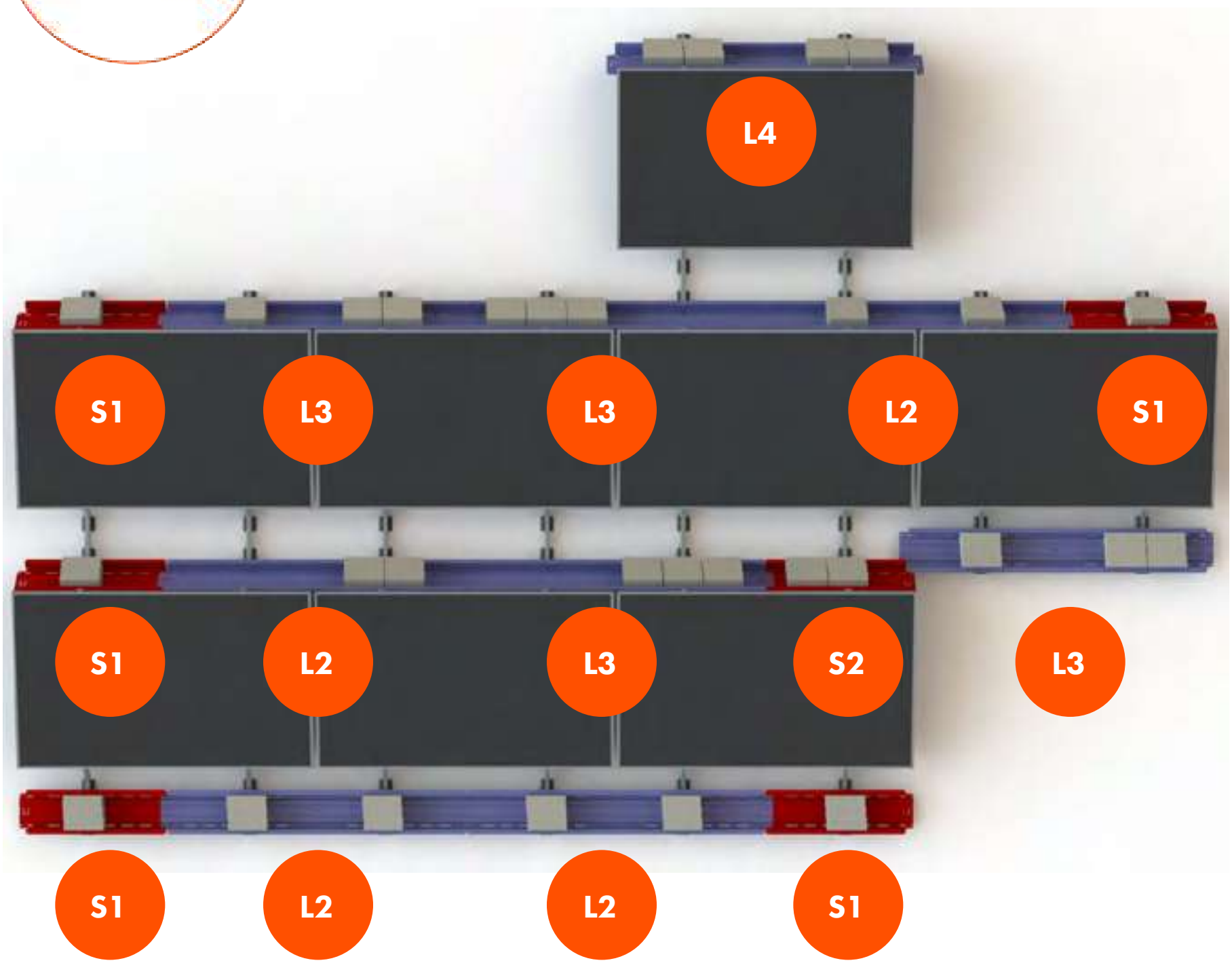
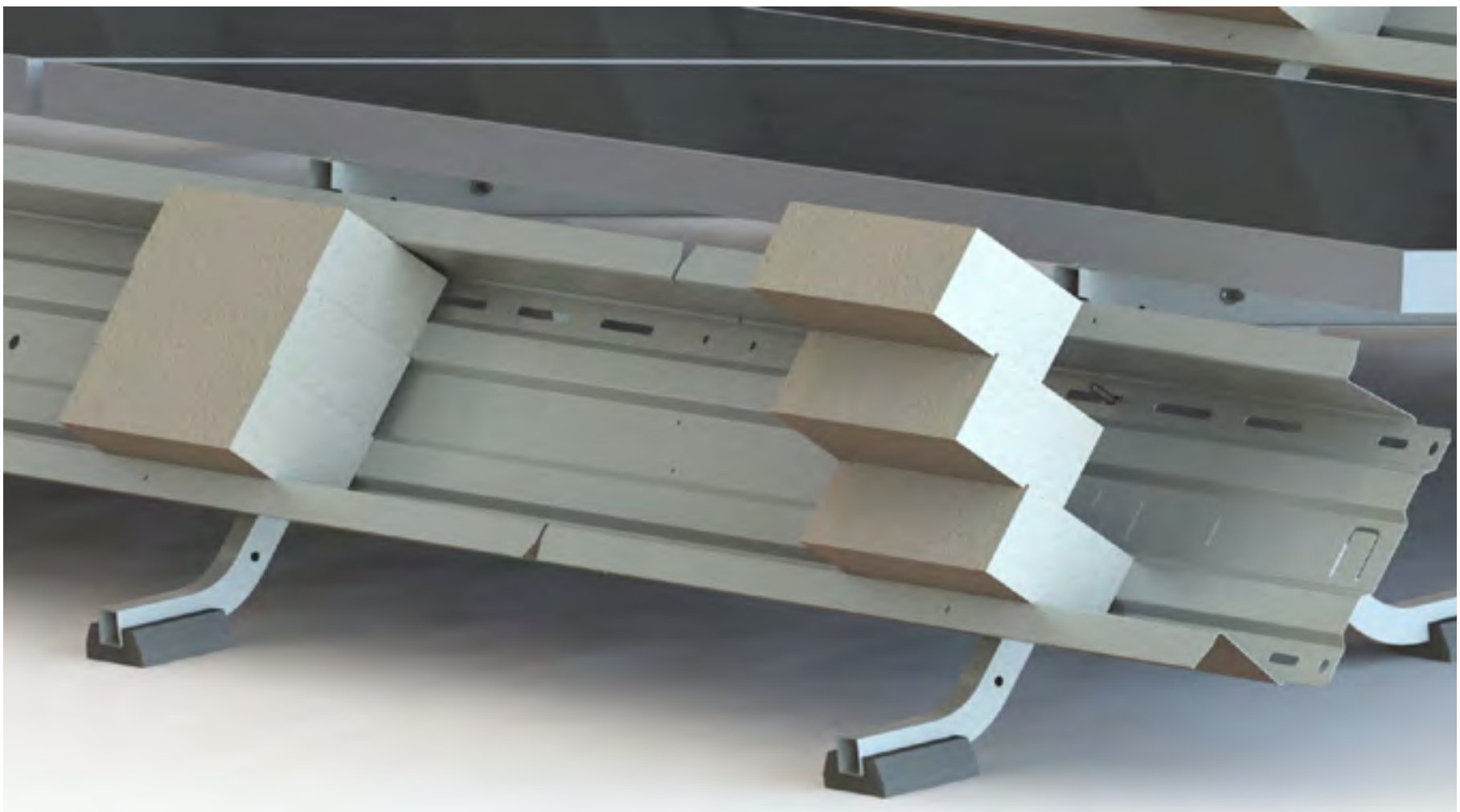
1 = 3x SUNFIXINGS BALLAST BLOCKS (OR 9.9kg)
2 = 6x SUNFIXINGS BALLAST BLOCKS (OR 18.18kg) ETC.





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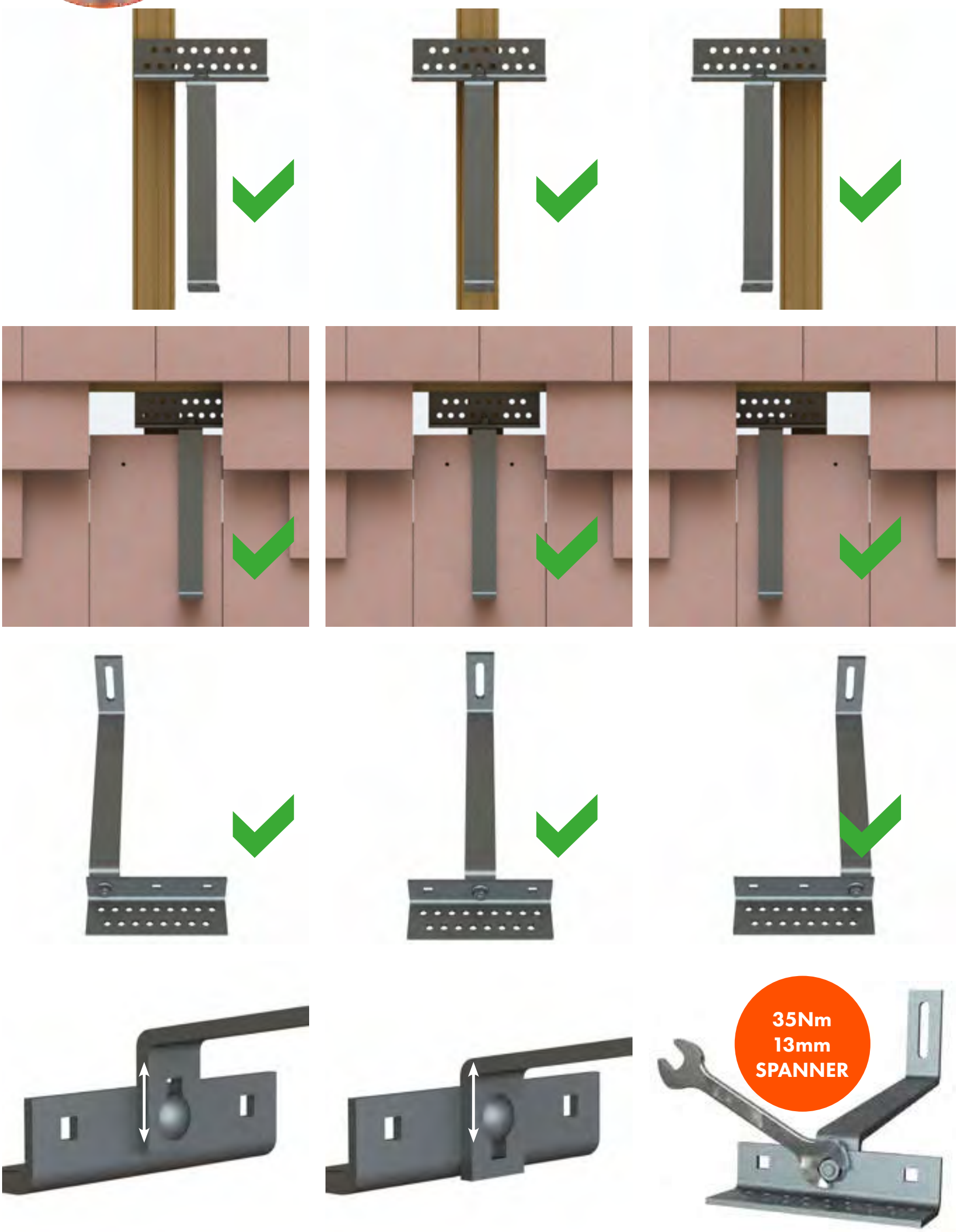
MOUNTING INSTRUCTIONS



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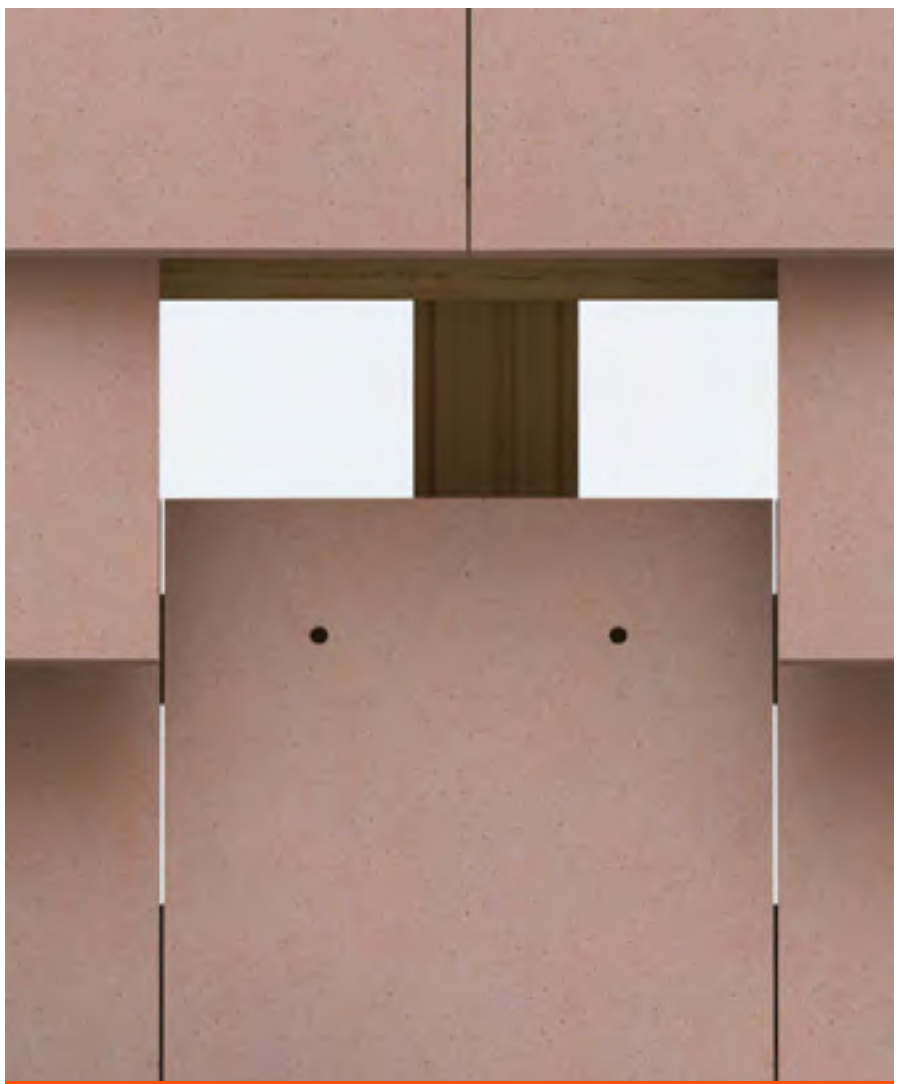
MOUNTING INSTRUCTIONS

LAYOUT

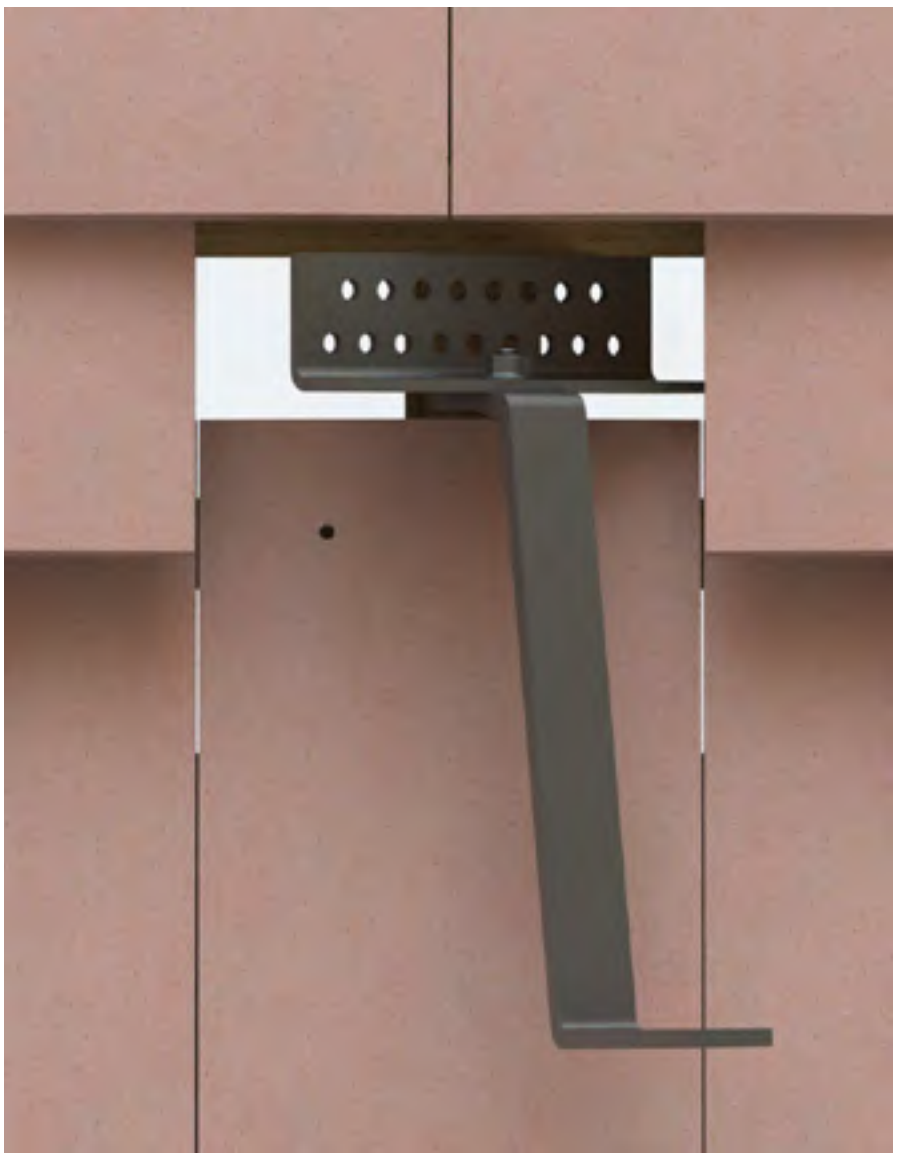
ROOFING TILE

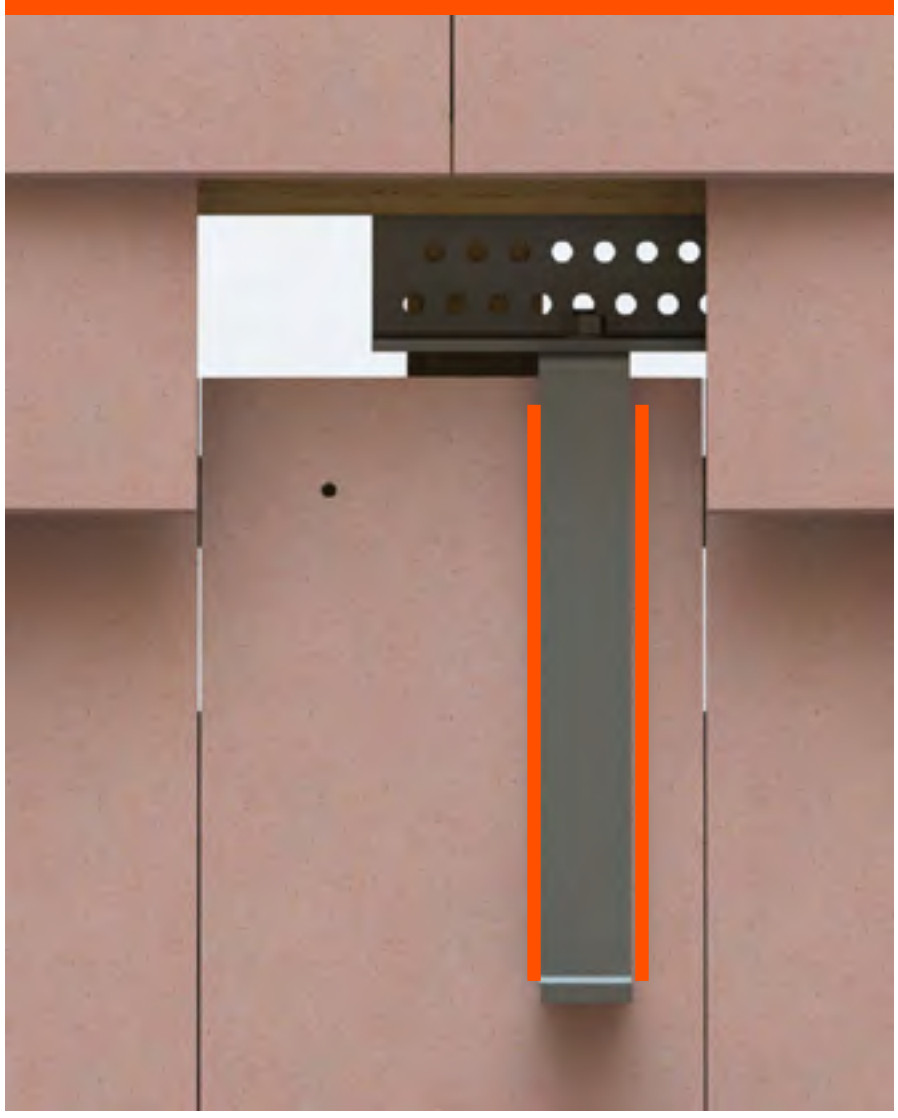
ROOF HOOK

CHALK OR BUILDER'S WAX



Mark on roofing tile.





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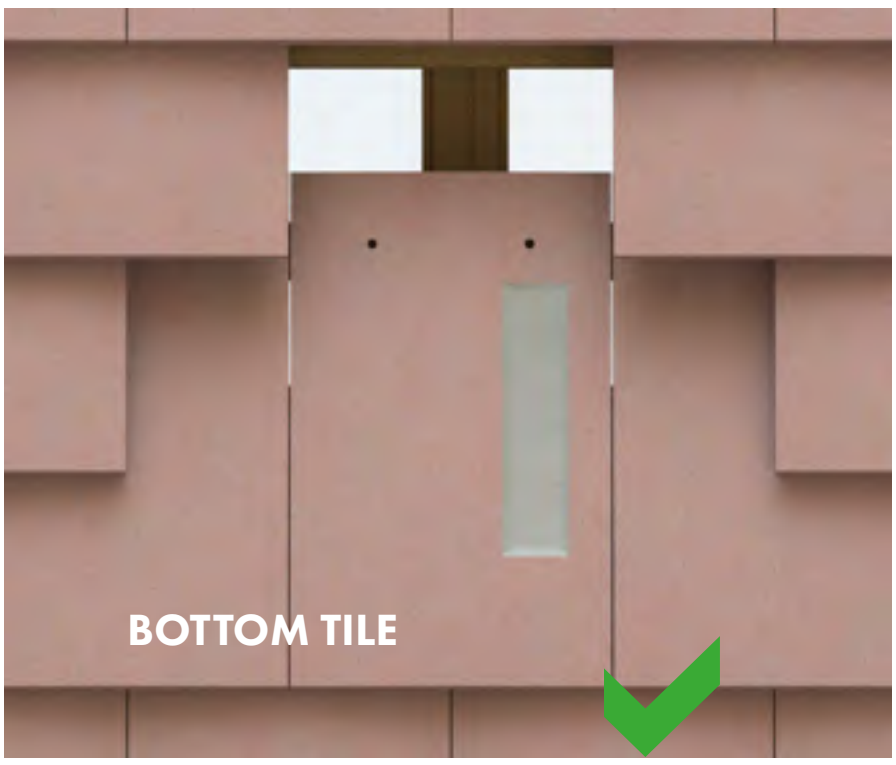
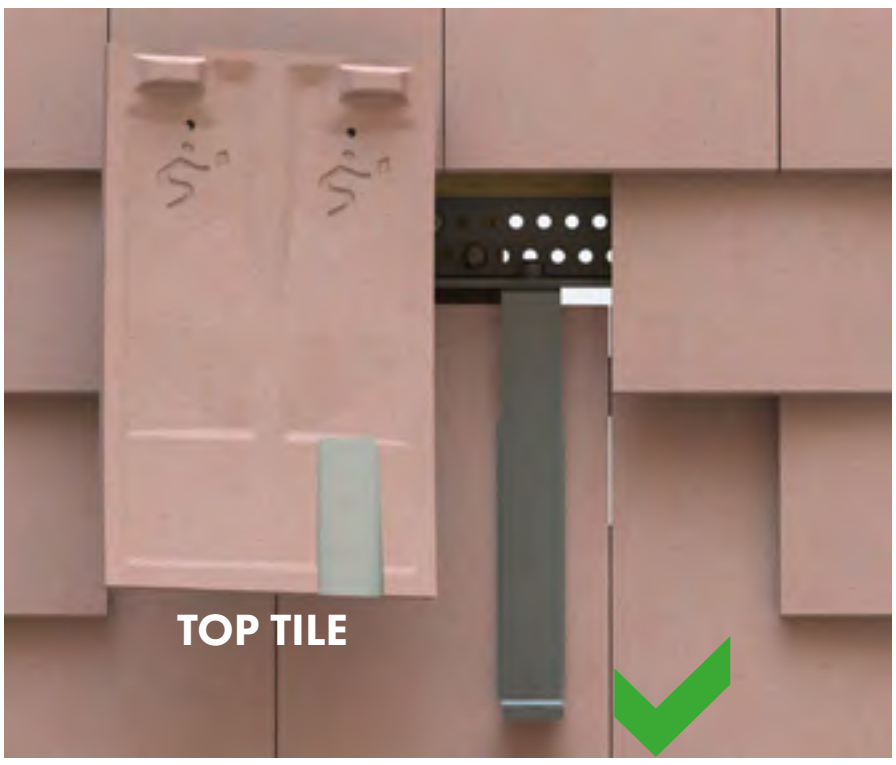
MOUNTING INSTRUCTIONS

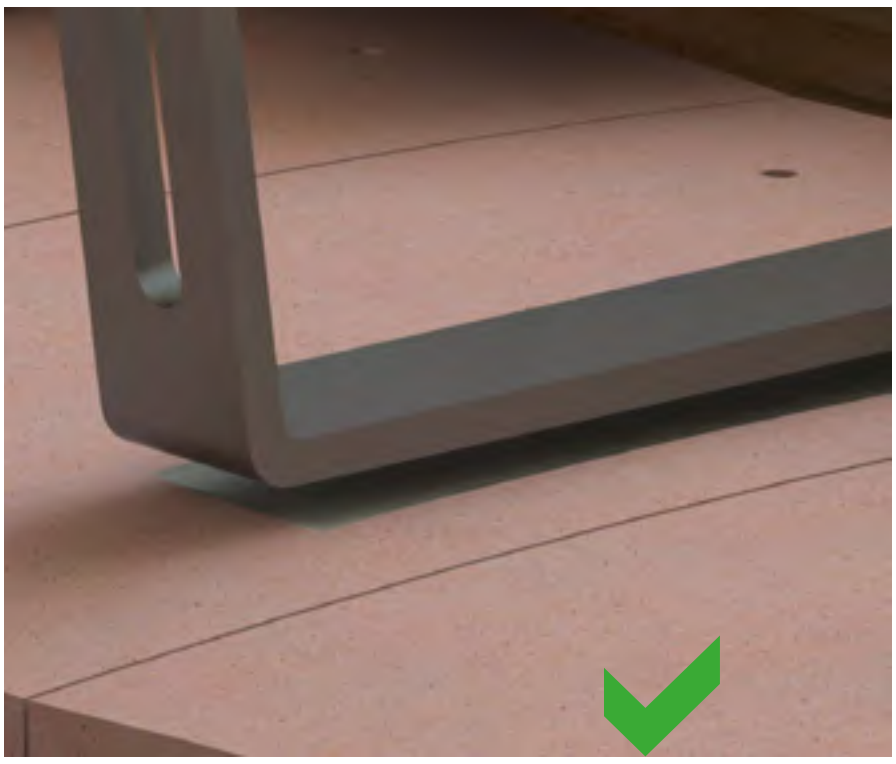
The Roof Hook should NOT rest on the bottom tile. The top tile should sit level with the rest of the tiles.

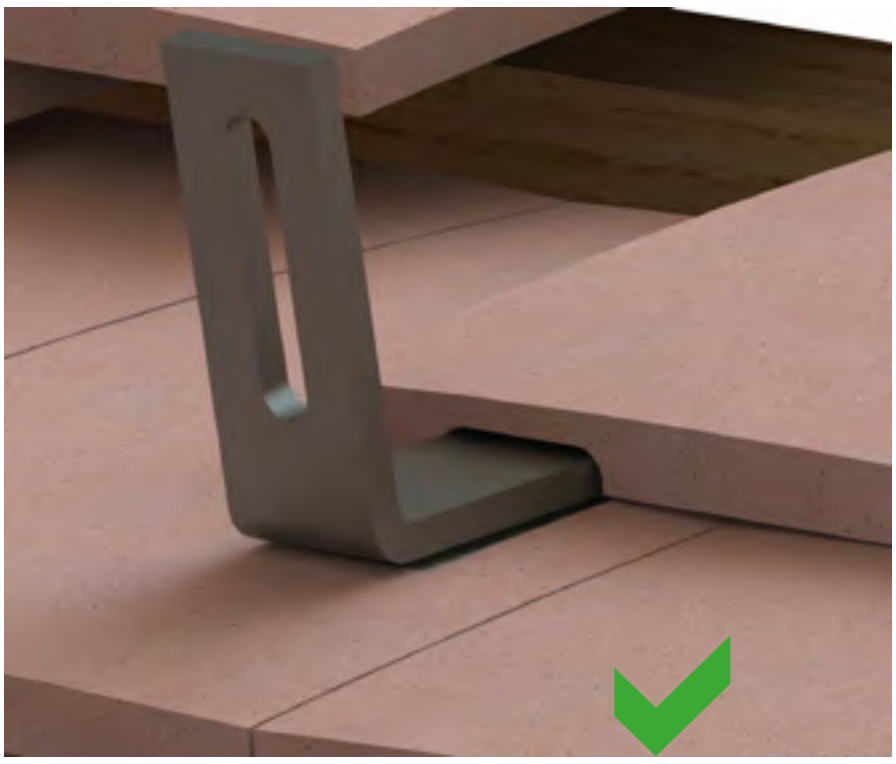
ROOFING TILE

GRINDER









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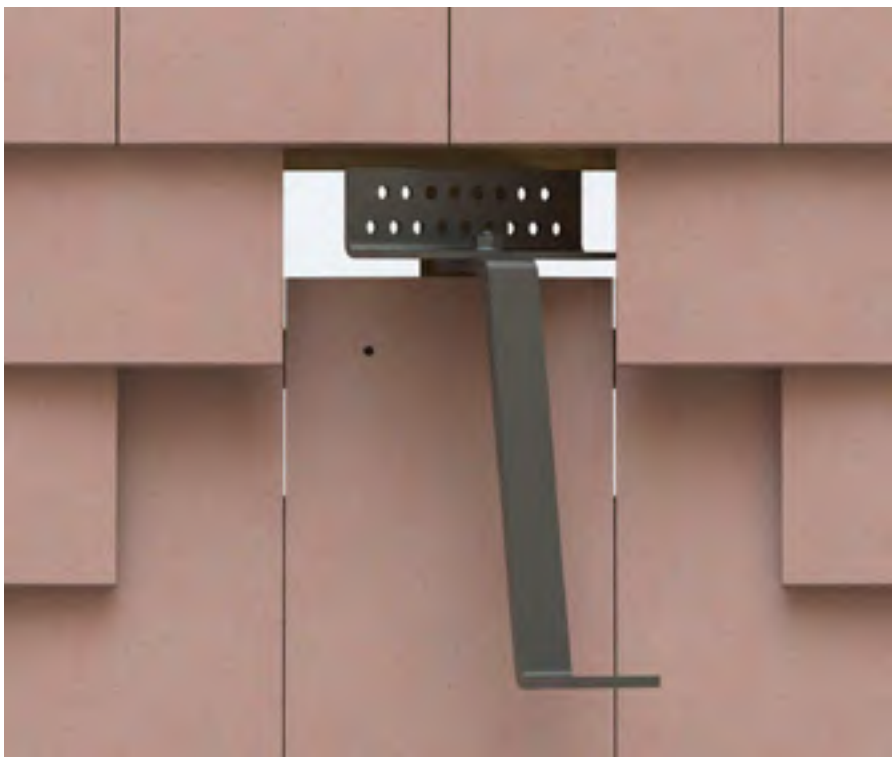
MOUNTING INSTRUCTIONS

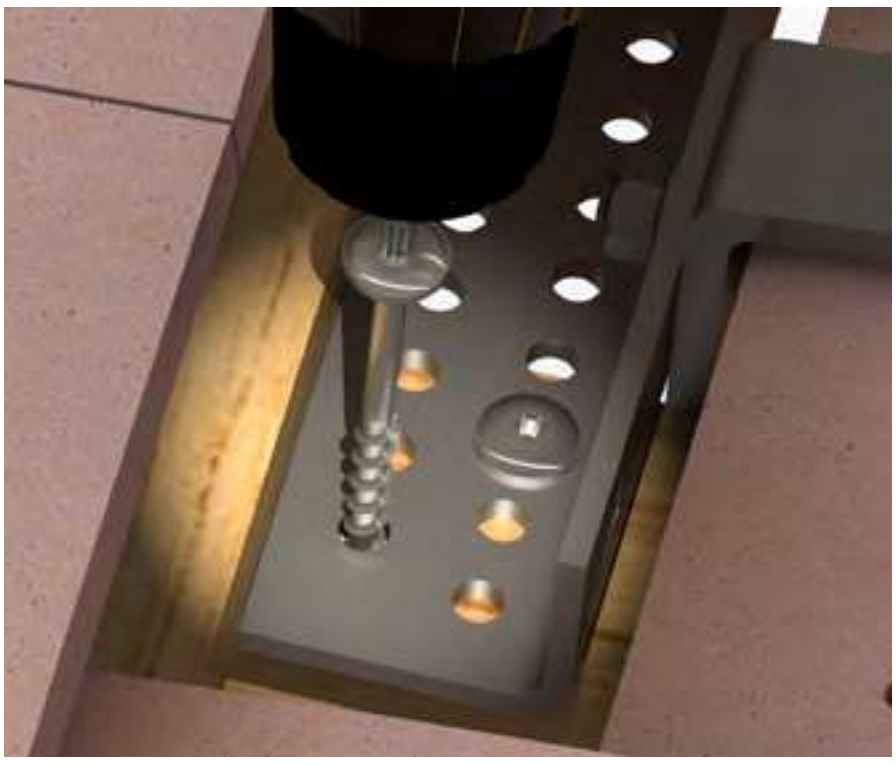
BATTERY DRILL
NOT IMPACTOR

SCREW BIT

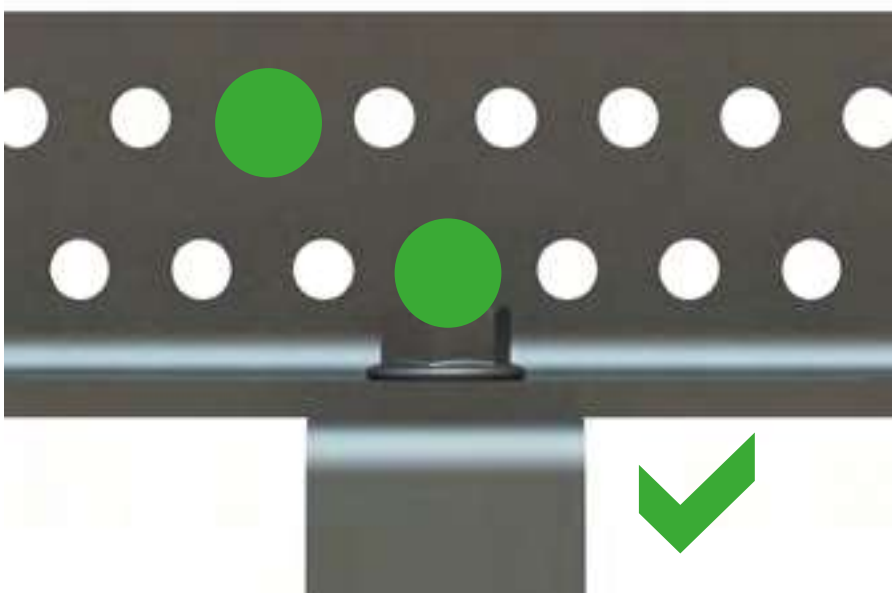
ROOF HOOK

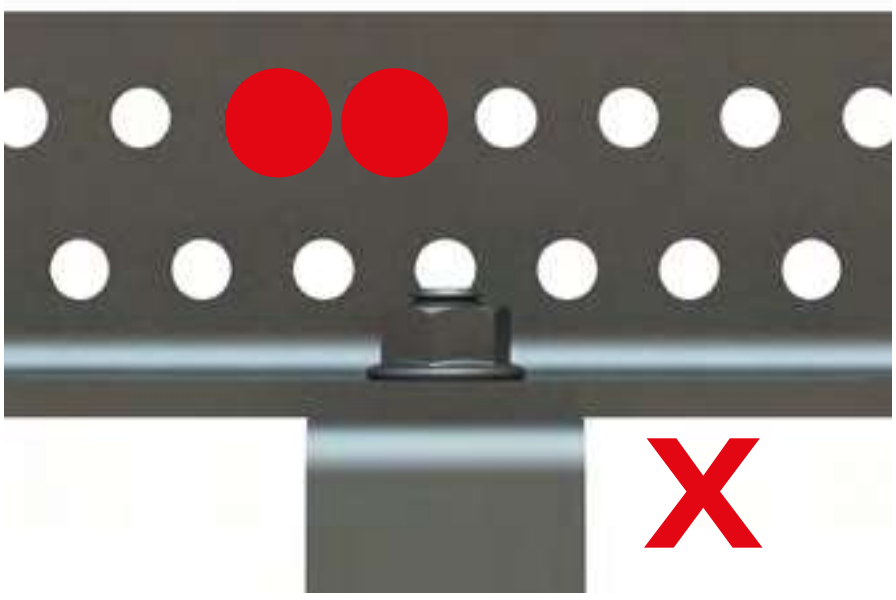
WOOD SCREW





2x
Wood
Screw





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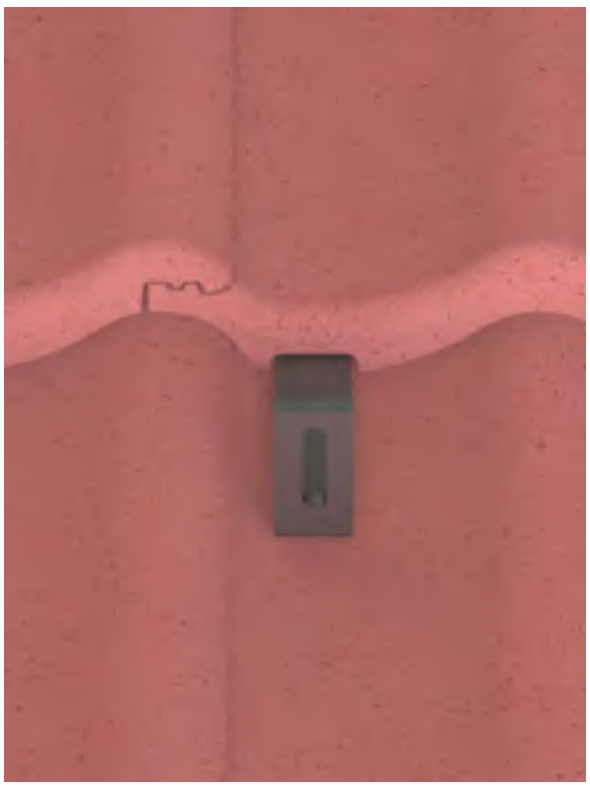

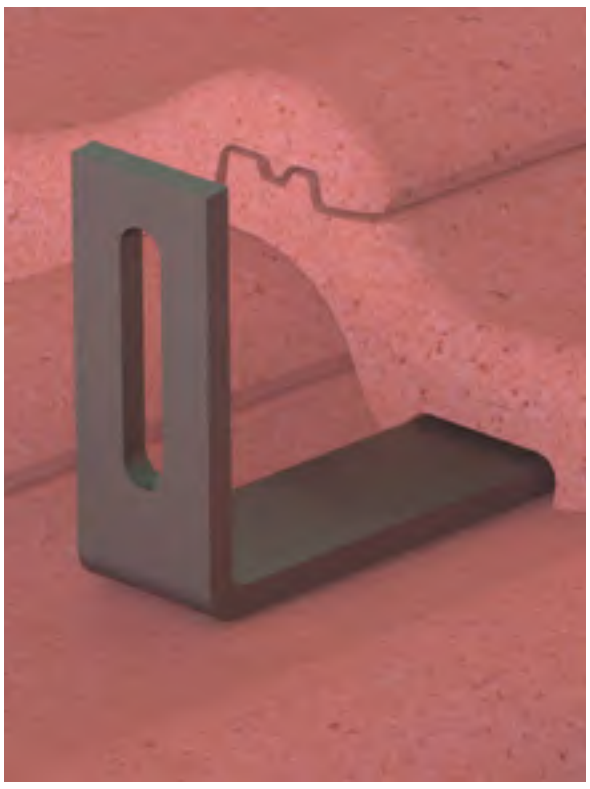

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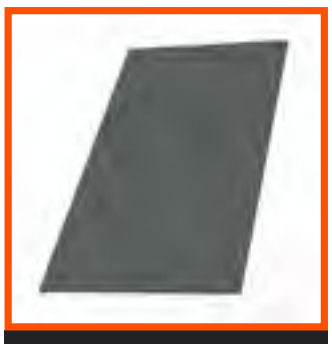
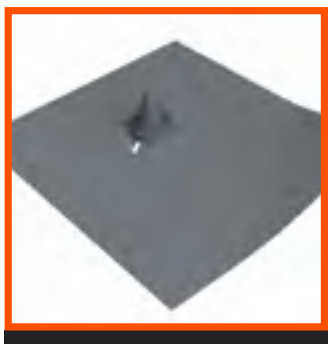
LAYOUT

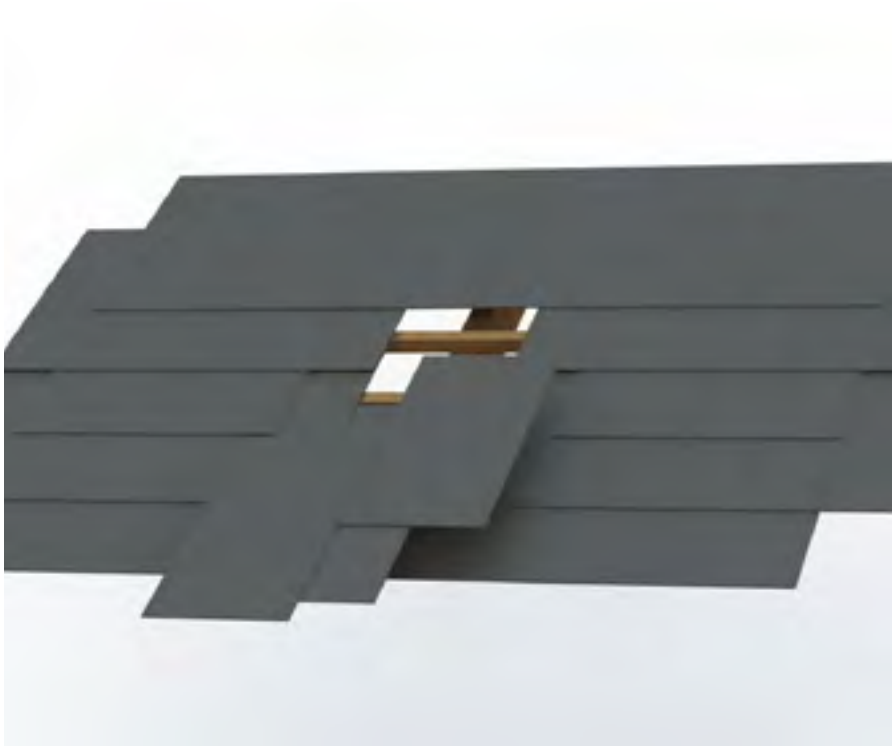


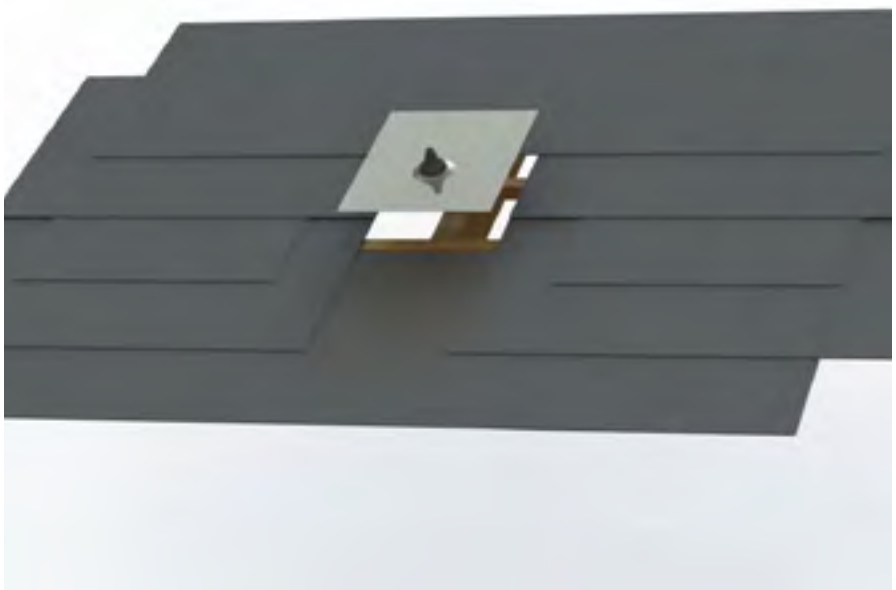
ROOFING TILE

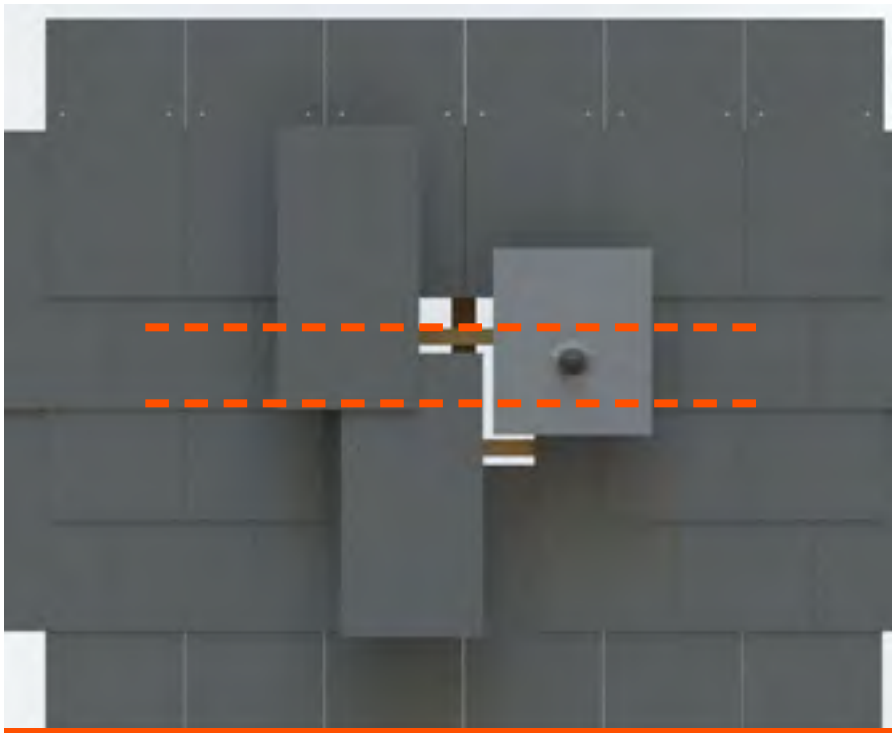
GRINDER



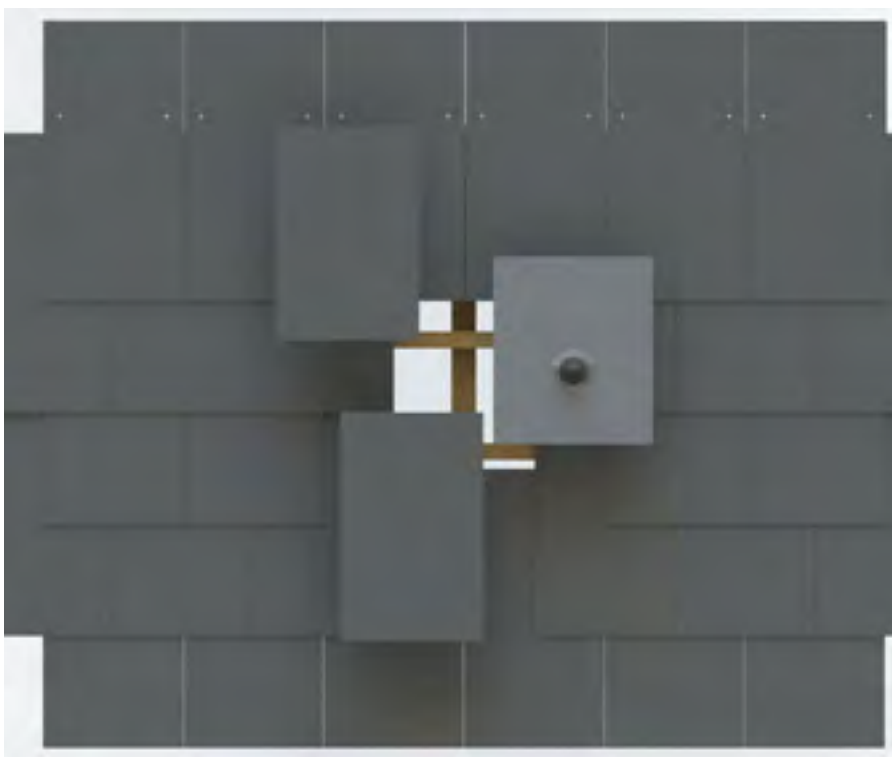
MASTER FLASH

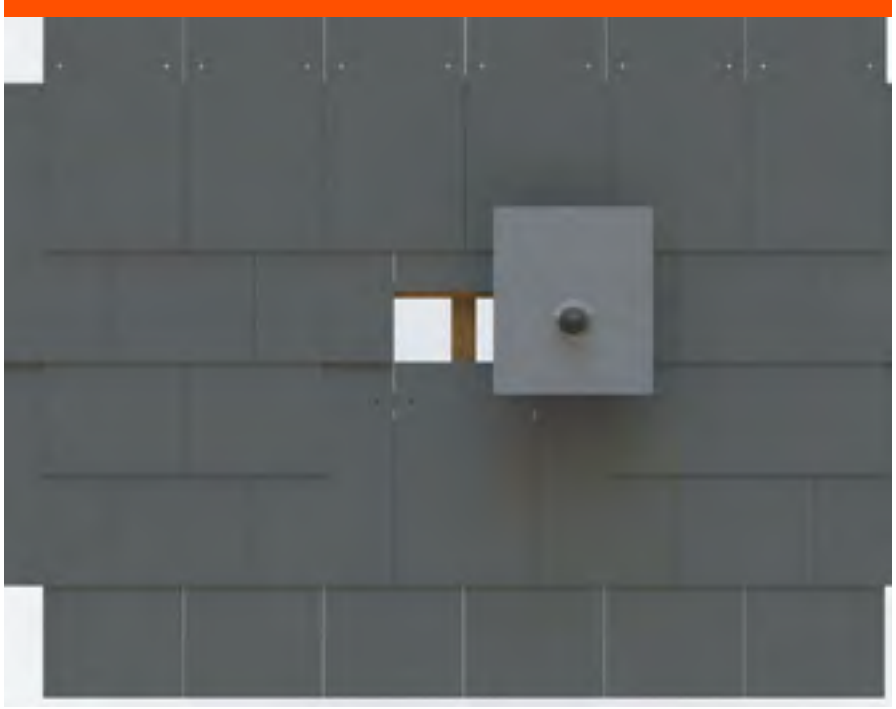






Cut the roofing tile for access to the rafter.





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MOUNTING INSTRUCTIONS

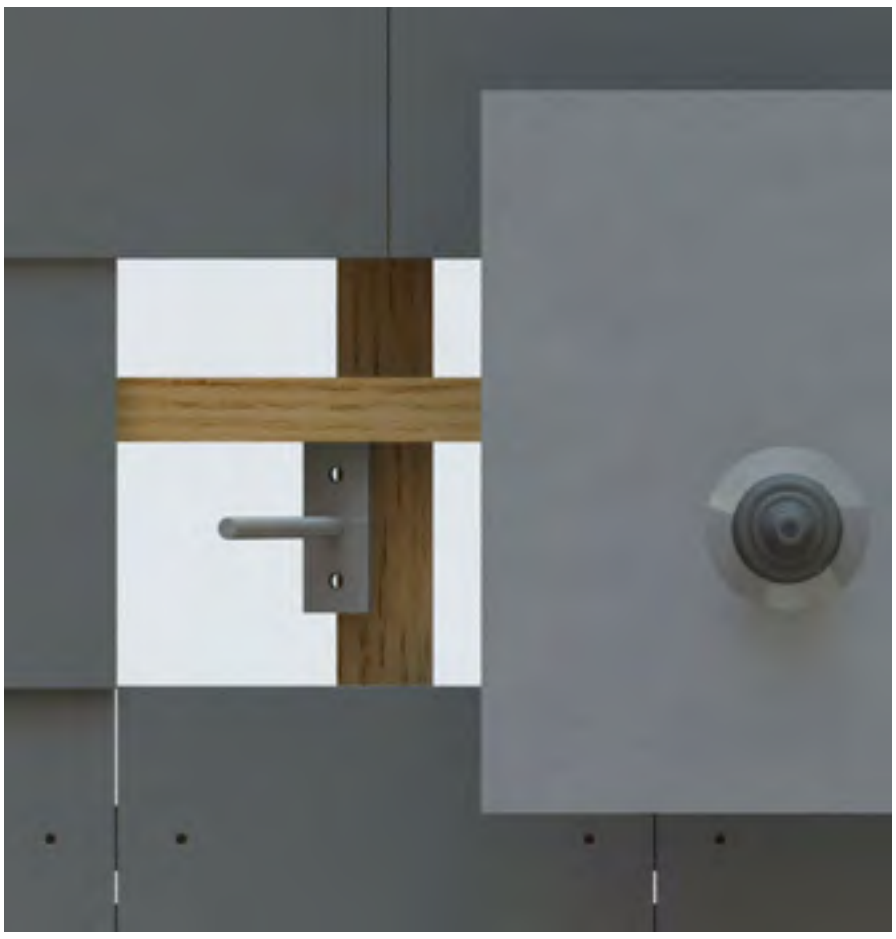
LAYOUT

BATTERY DRILL
NOT IMPACTOR

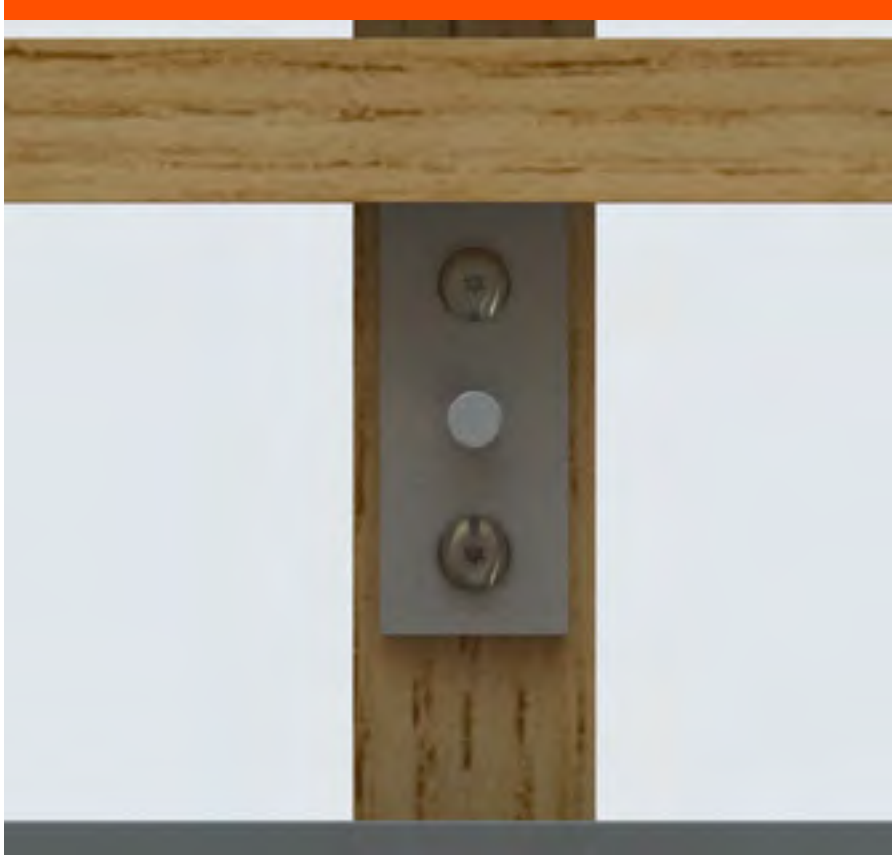
SCREW BIT

METAL PLATE

WOOD SCREW



2x Wood Screws



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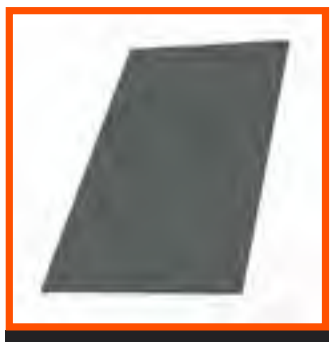
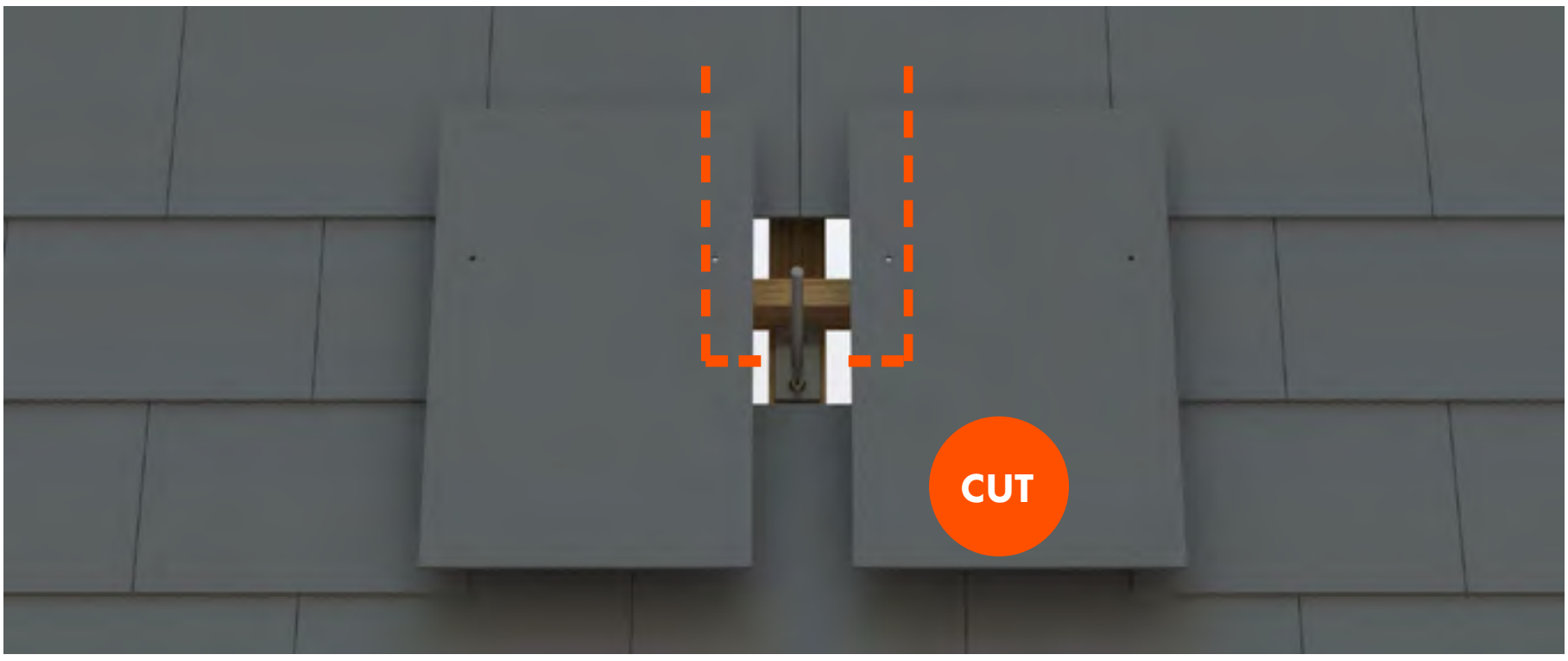
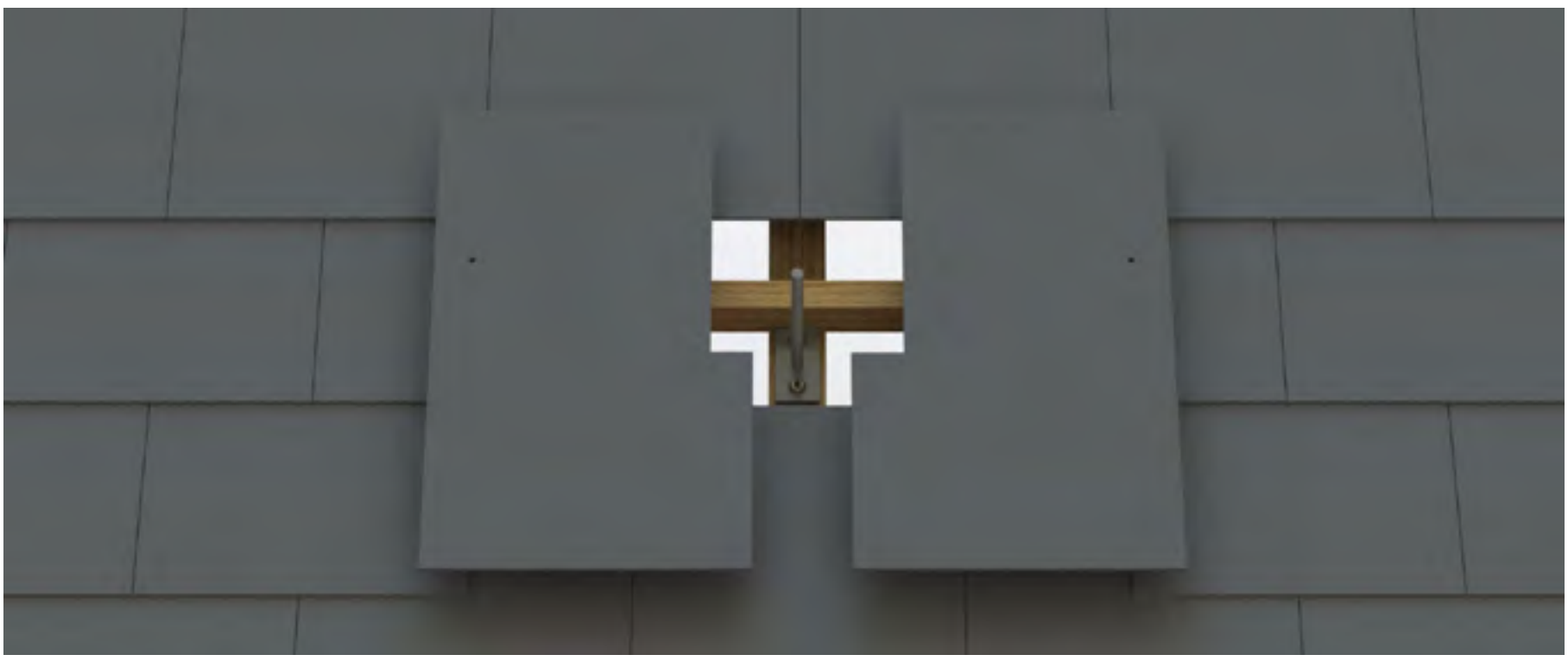
MOUNTING INSTRUCTIONS



ROOFING TILE

GRINDER





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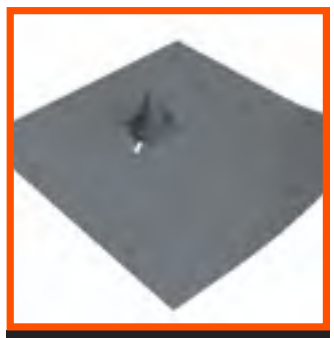
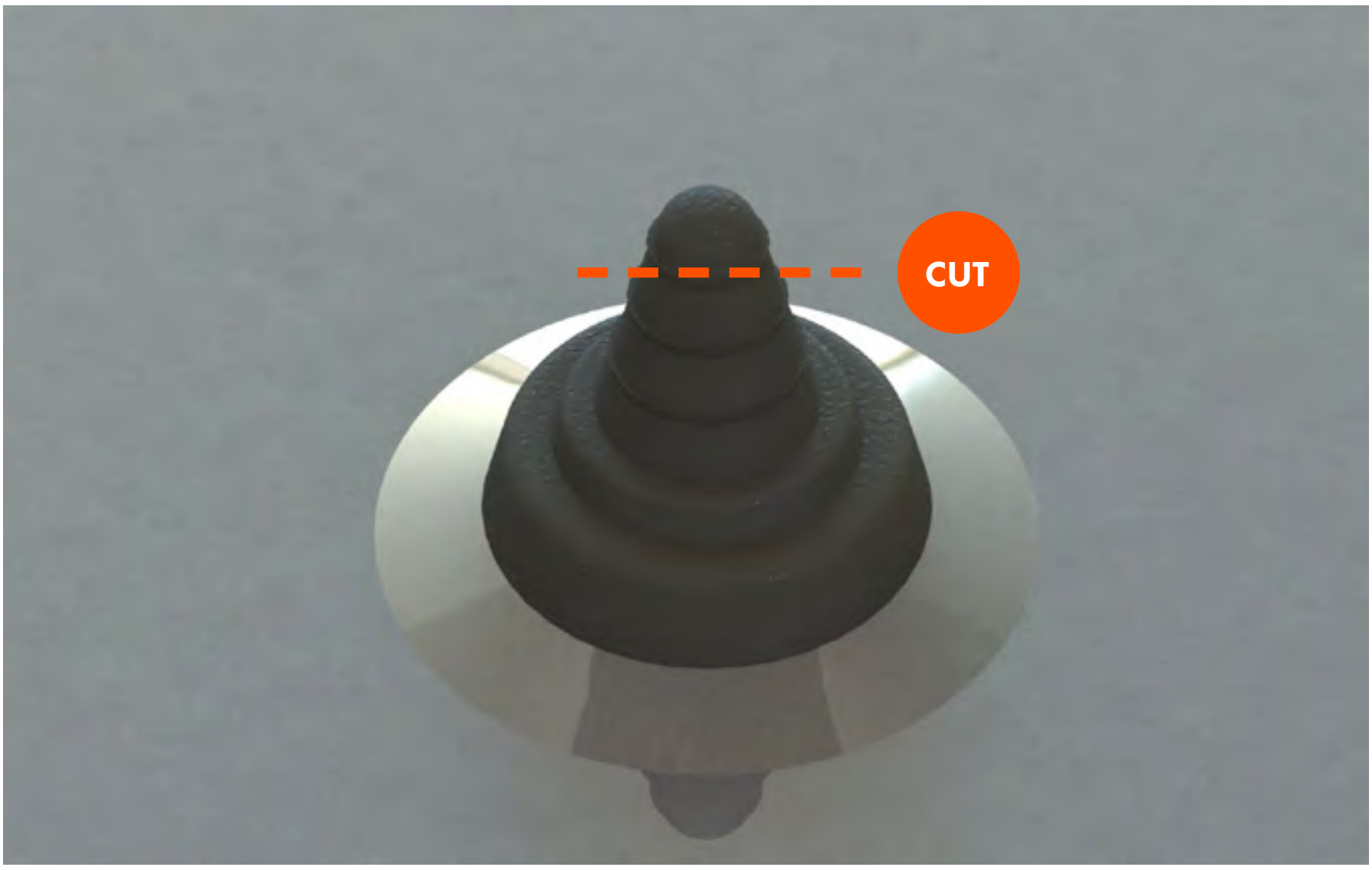
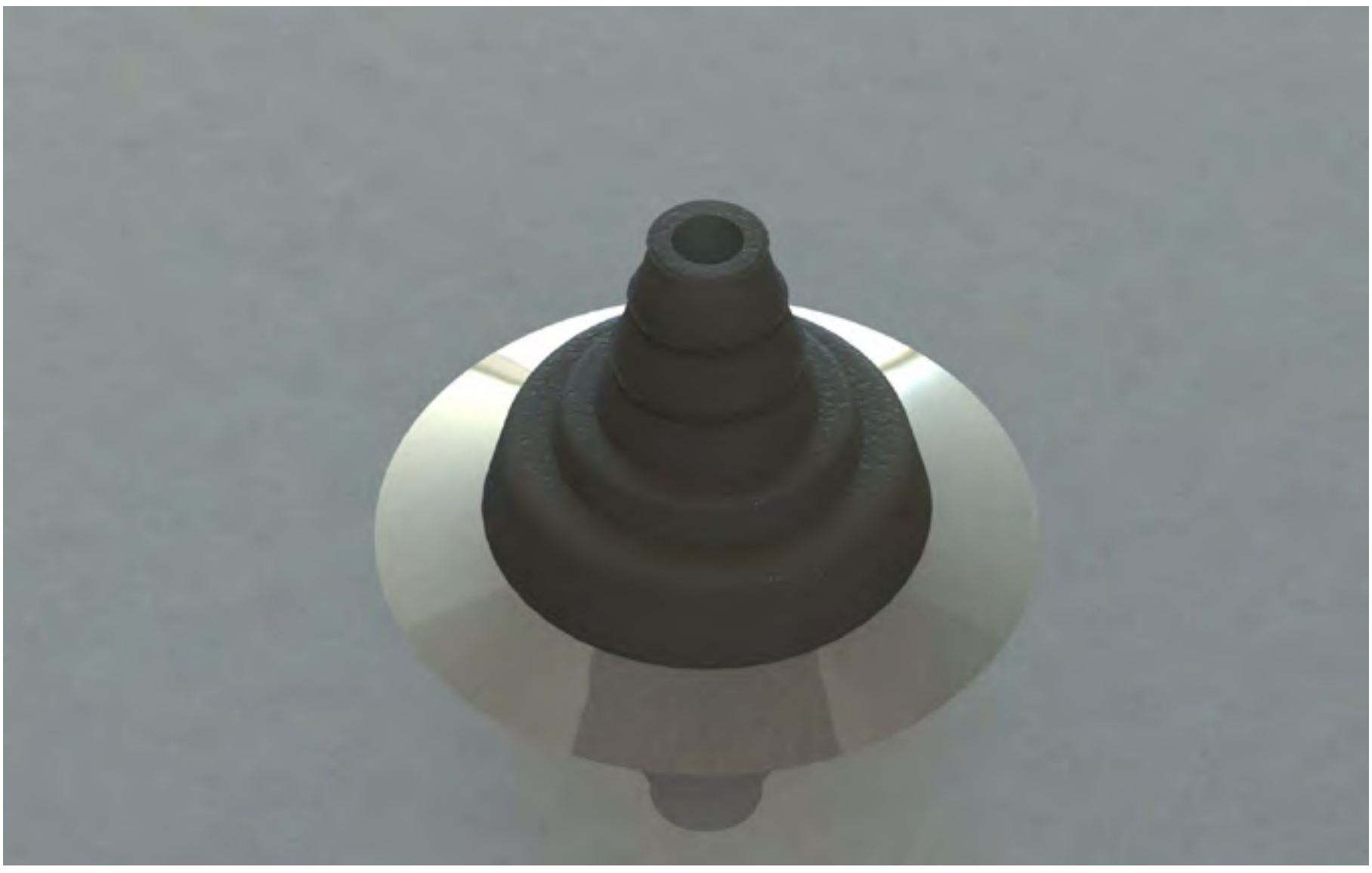
MOUNTING INSTRUCTIONS

KNIFE



MASTER FLASH





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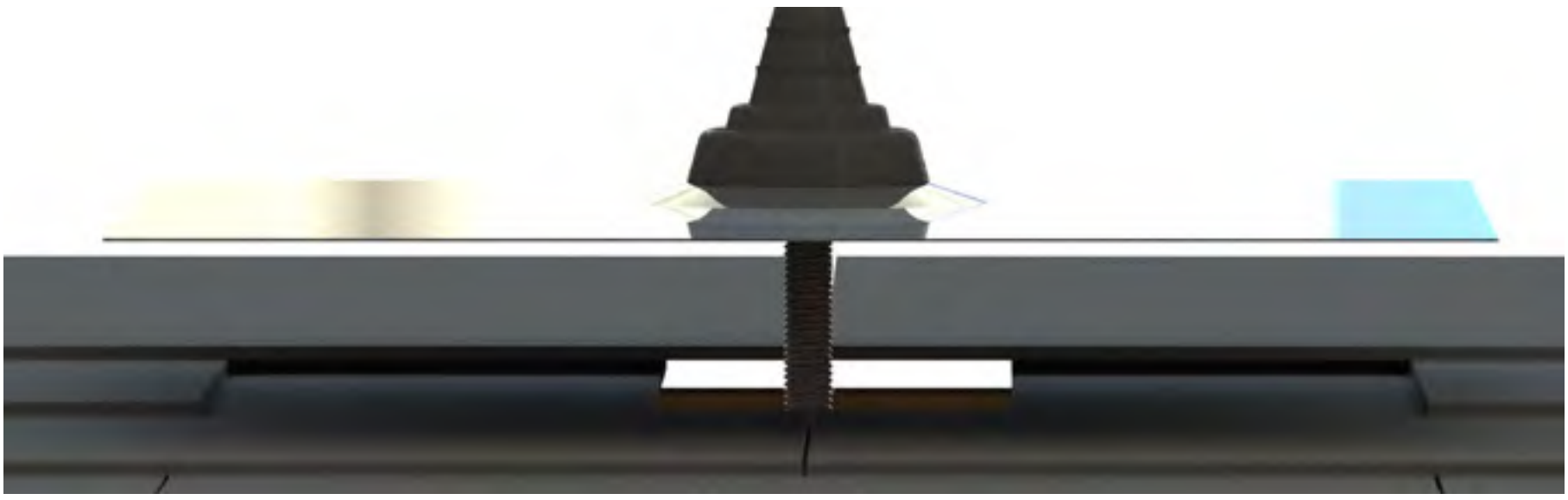

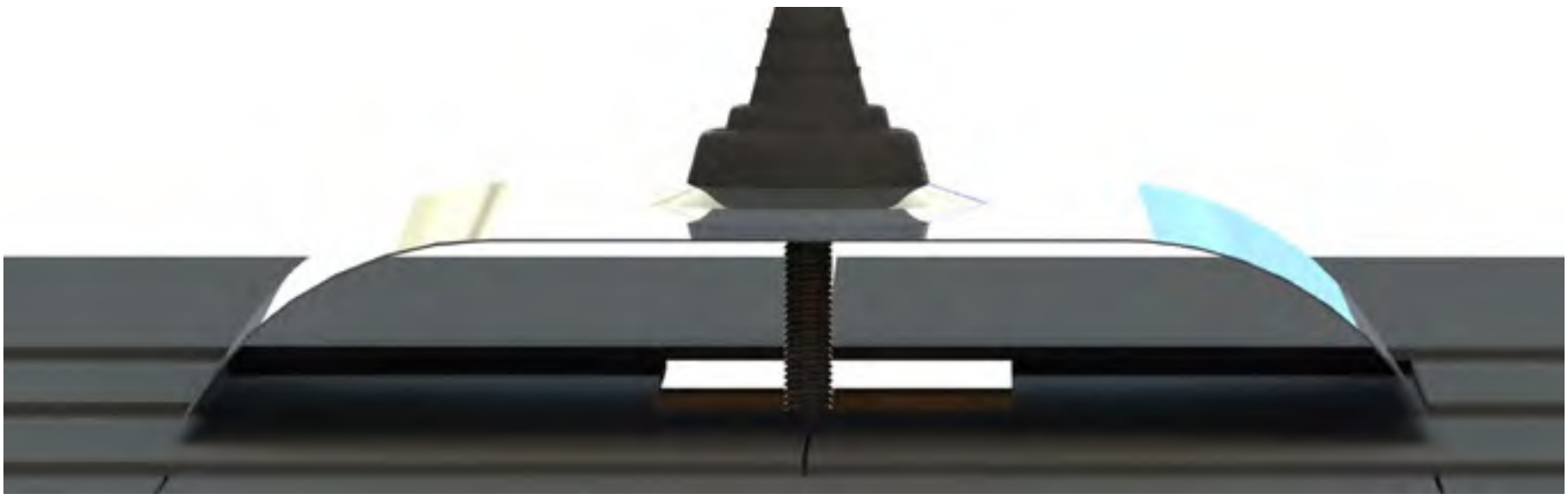

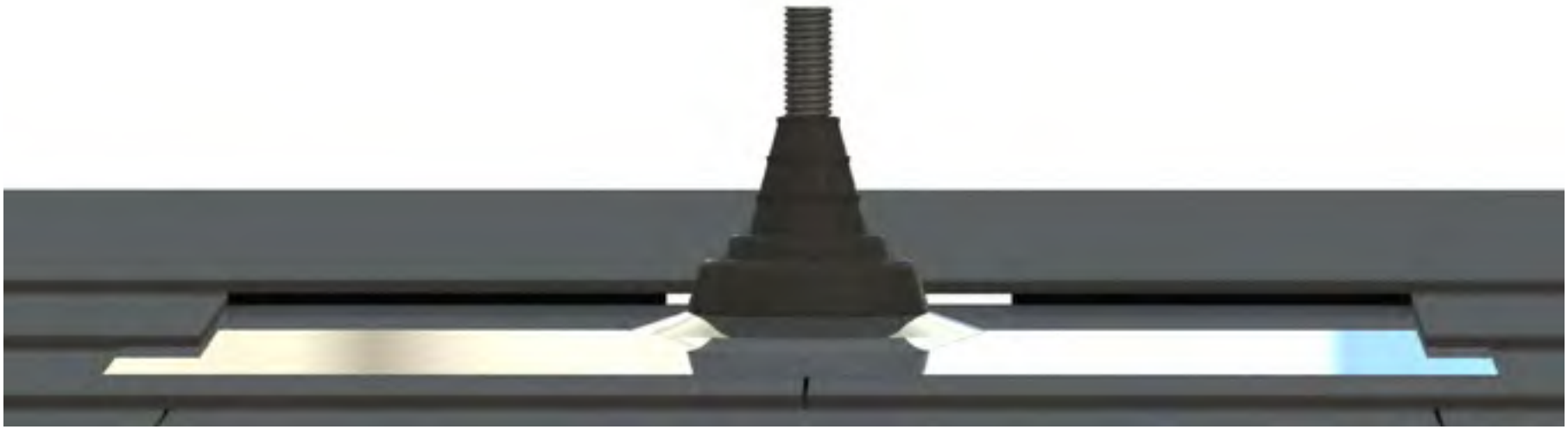

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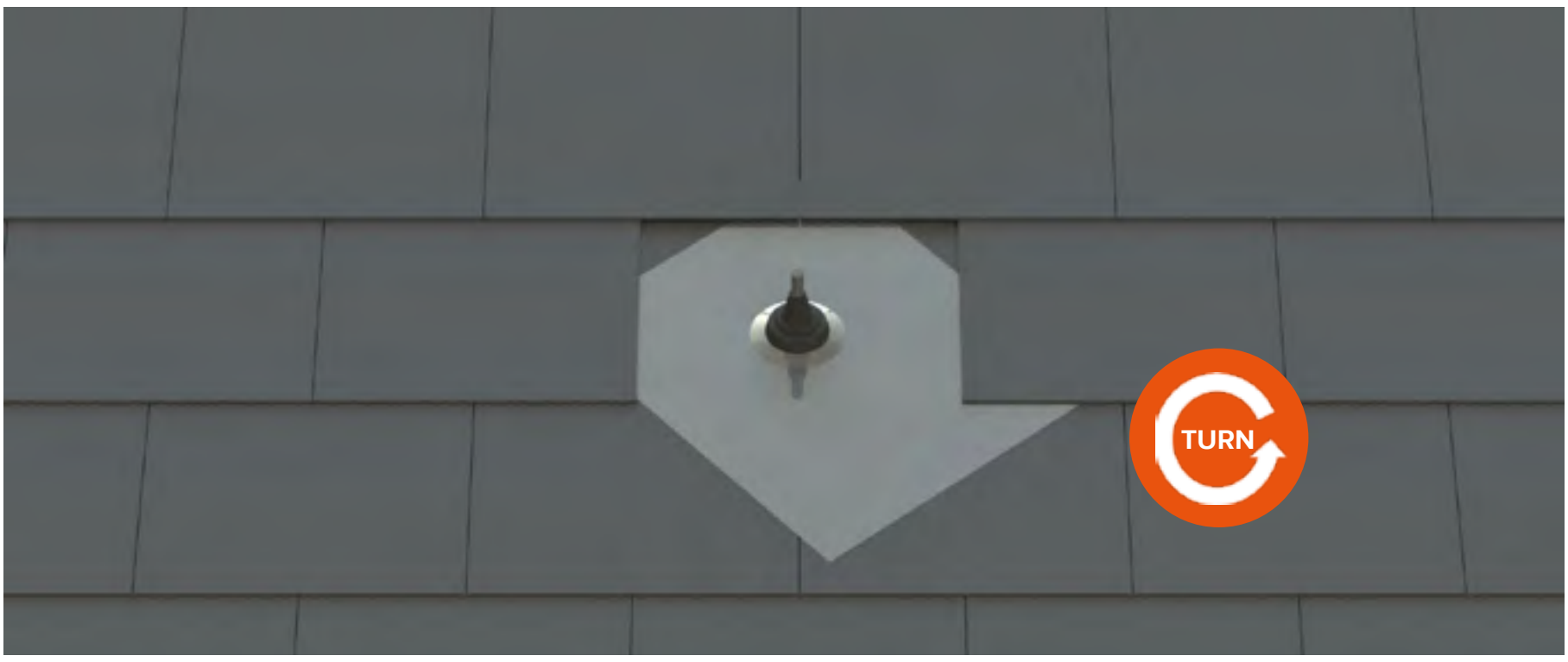
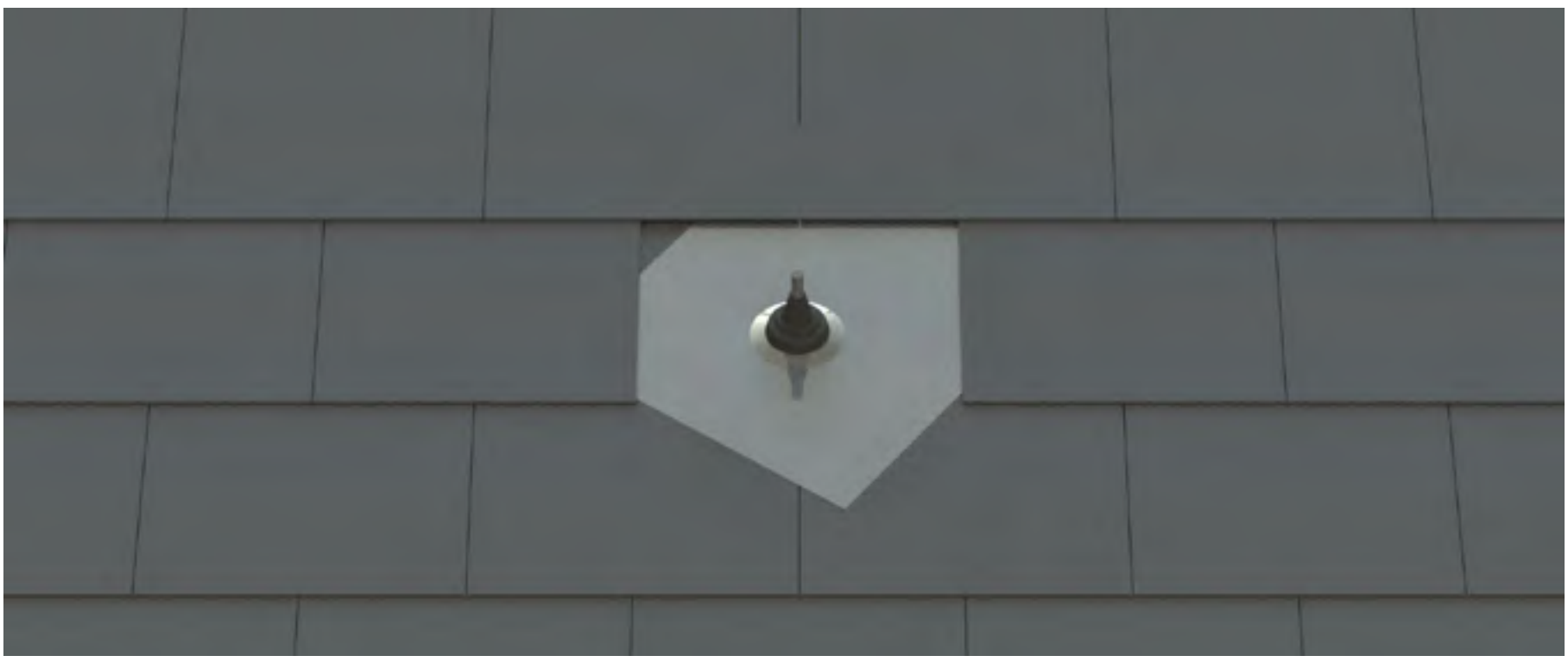
Turn the Master Flash so that the long edge points upwards.





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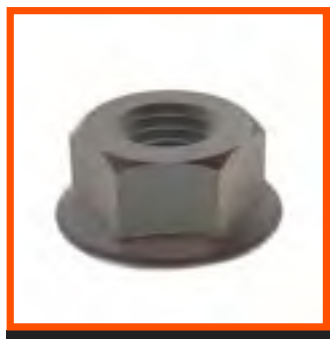
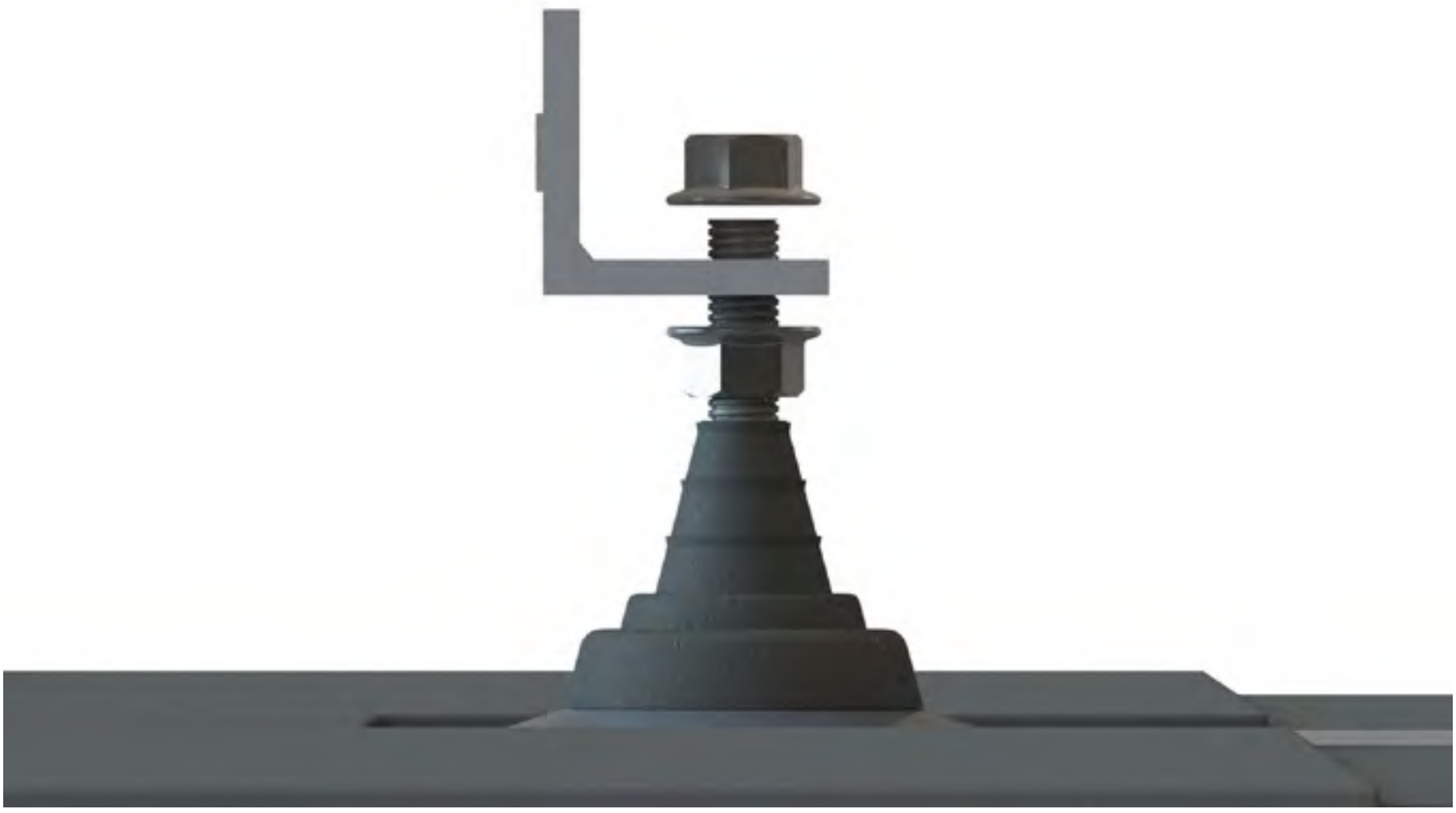
MOUNTING INSTRUCTIONS

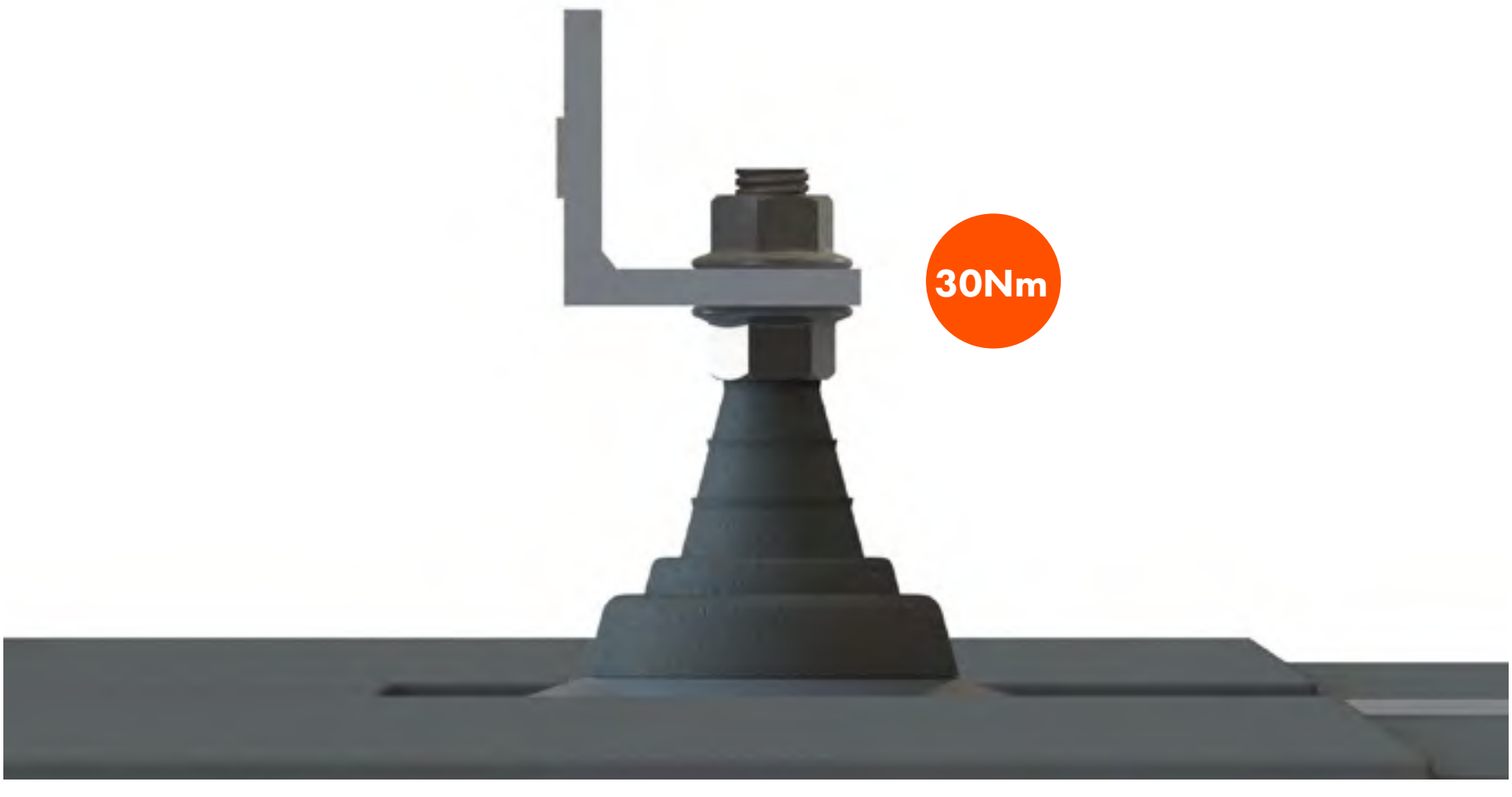
SPANNER

CROSS CONNECTOR



M10 SERRATED NUT





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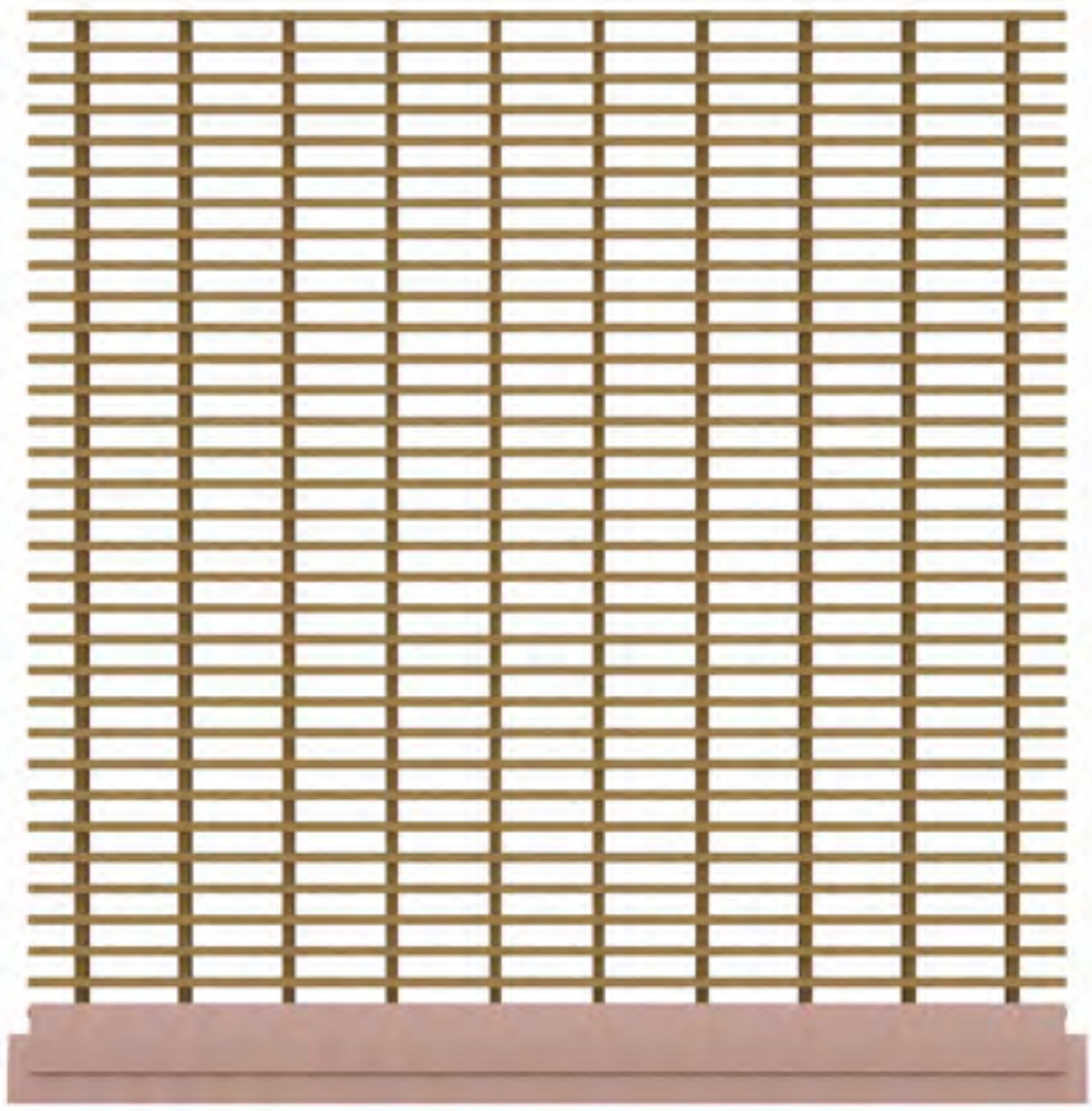
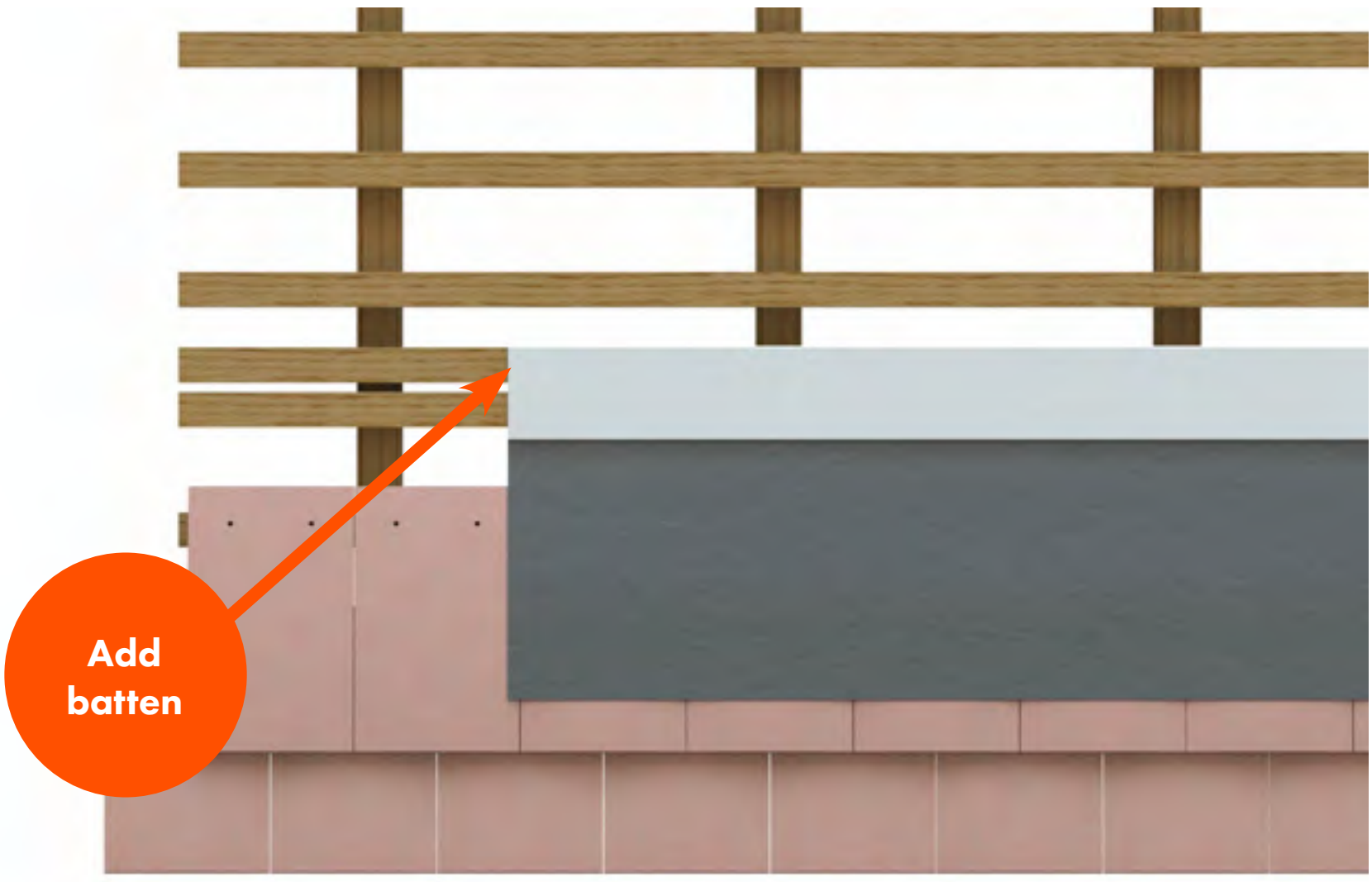
Measure the array and remove necessary roofing tiles.

Add battens where necessary to enable you to attach the flashing.





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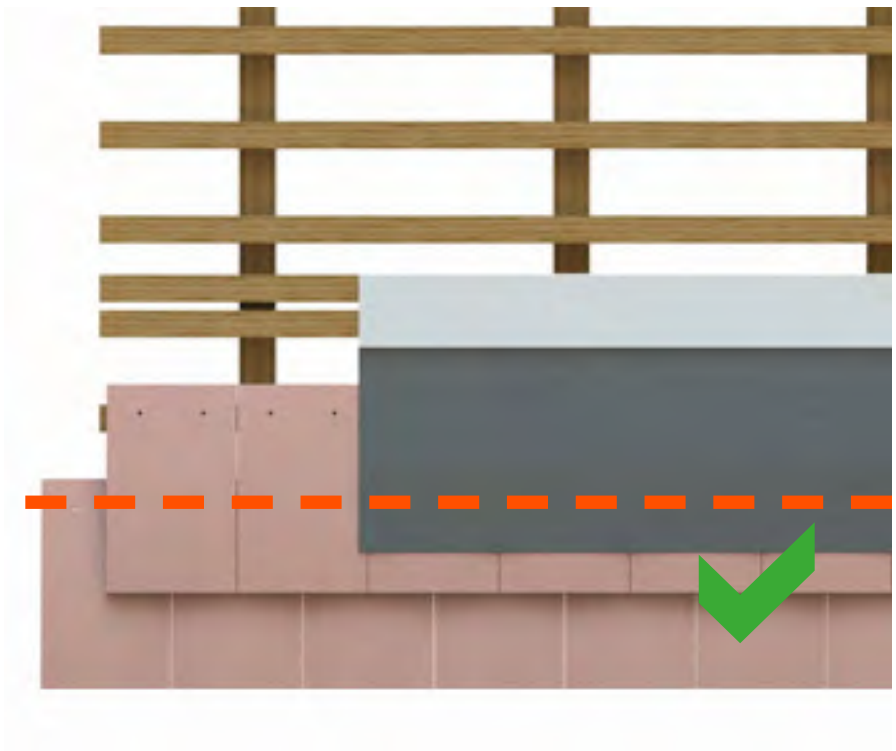
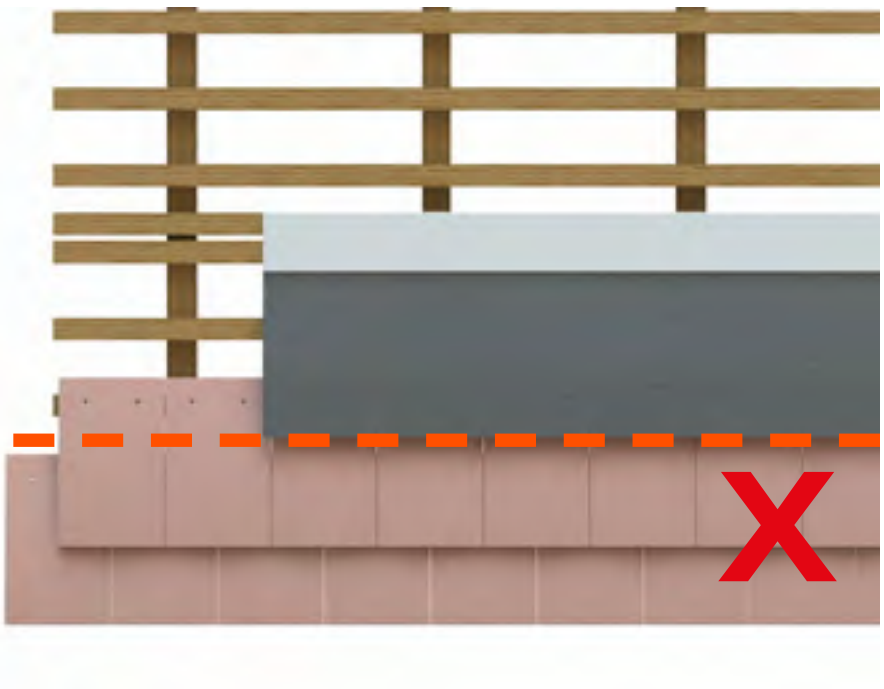
MOUNTING INSTRUCTIONS

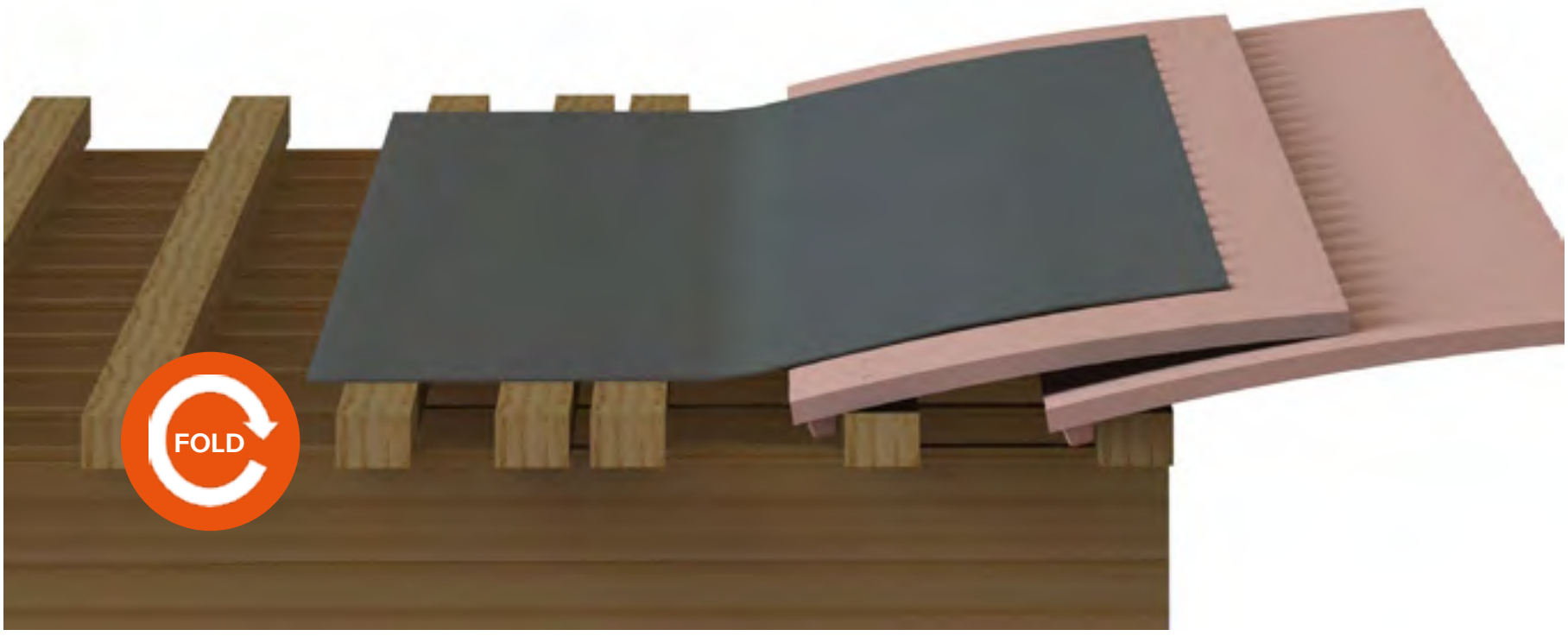
Fit the flashing to the bottom of the array.
Flex must sit lower than roofing tile.
Peel off the backing from the Flex and stick over battens and roofing tile.

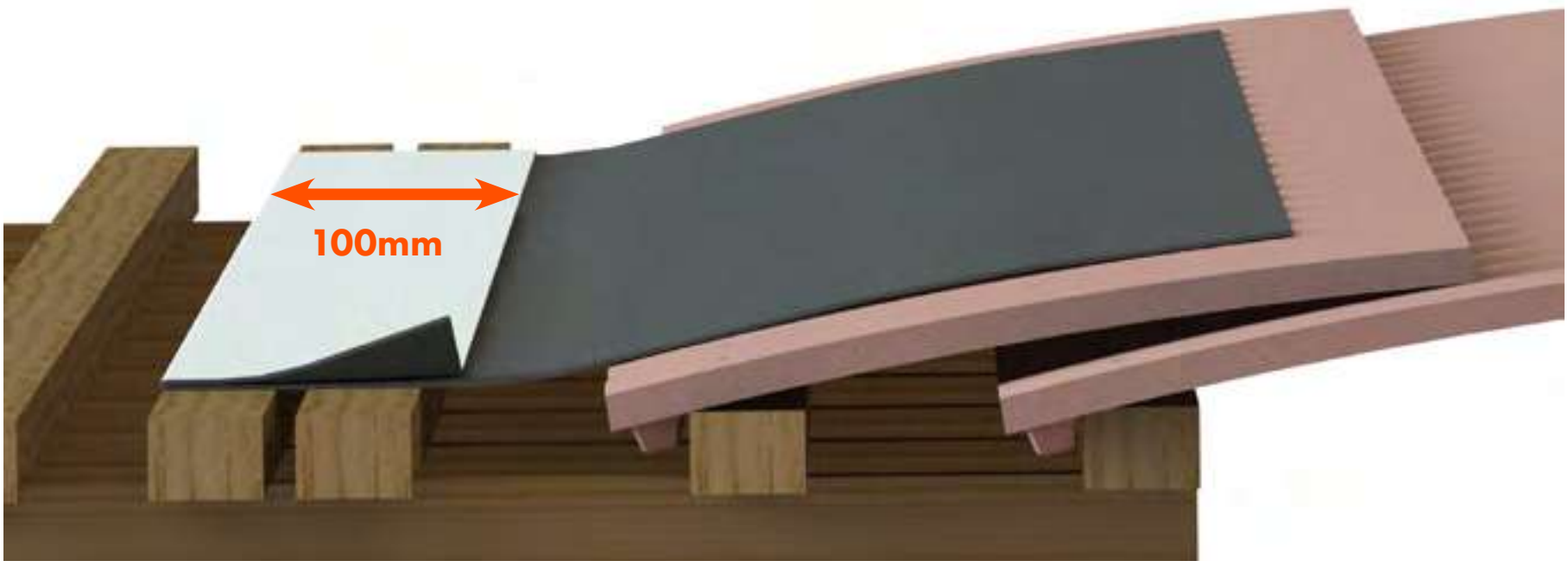
LAYOUT

FLEX 450mm BOTTOM









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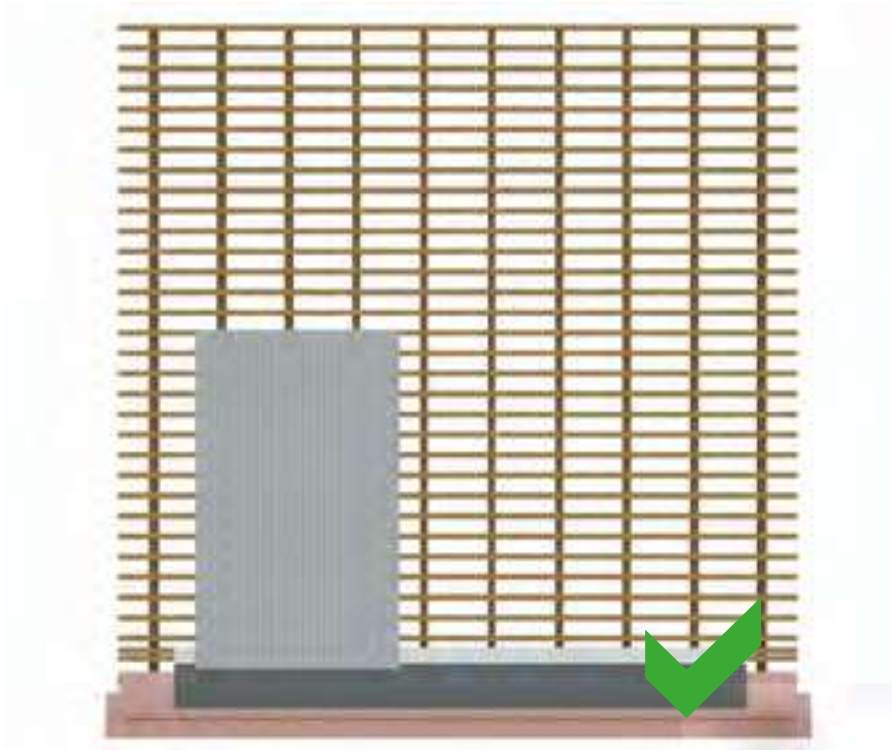
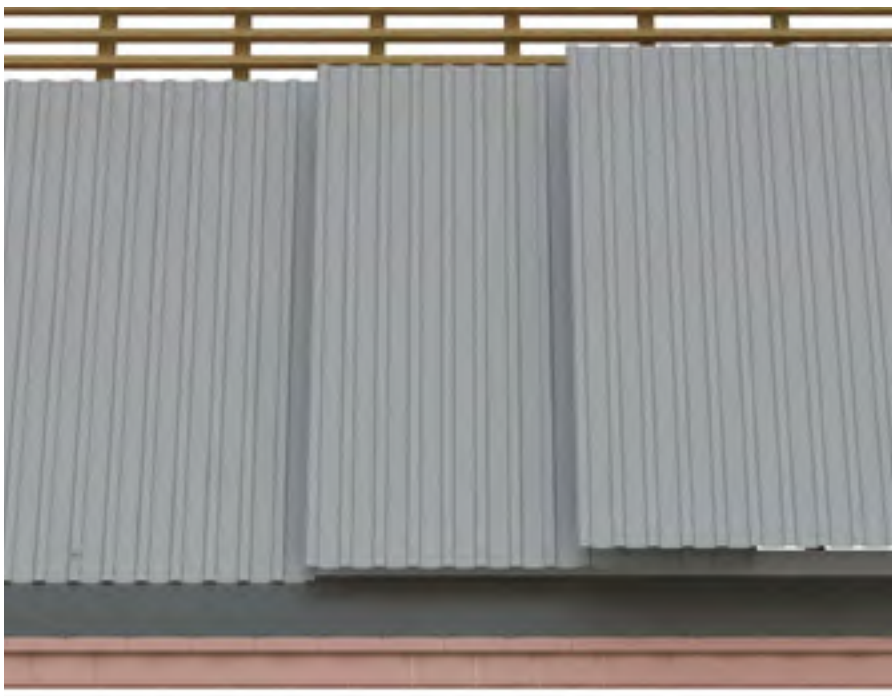
MOUNTING INSTRUCTIONS

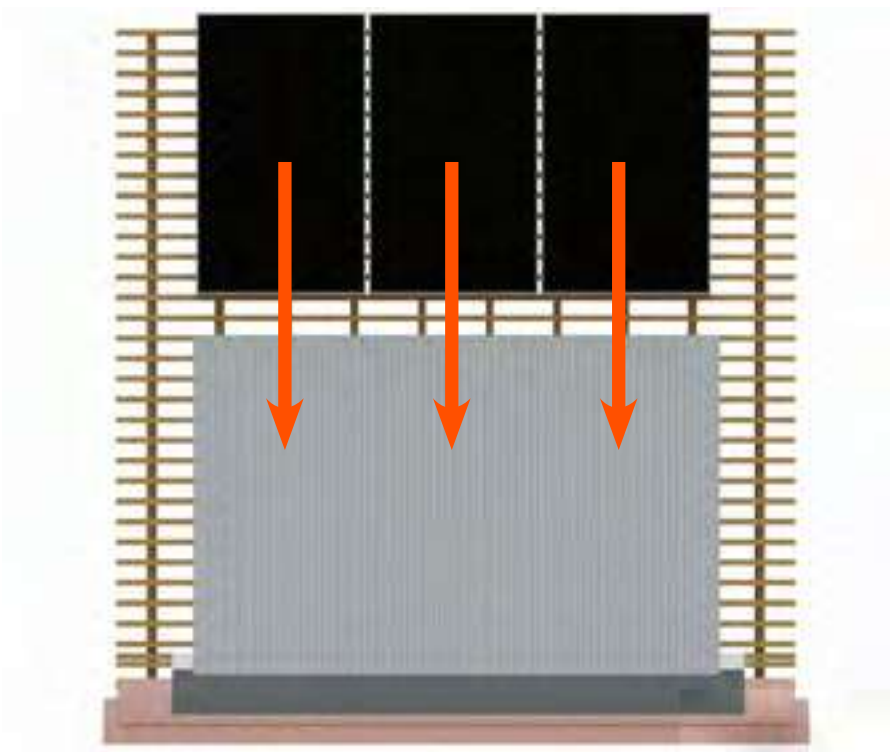
Position the Trapezoidal Sheets. Use the layout for the overlap dimension.

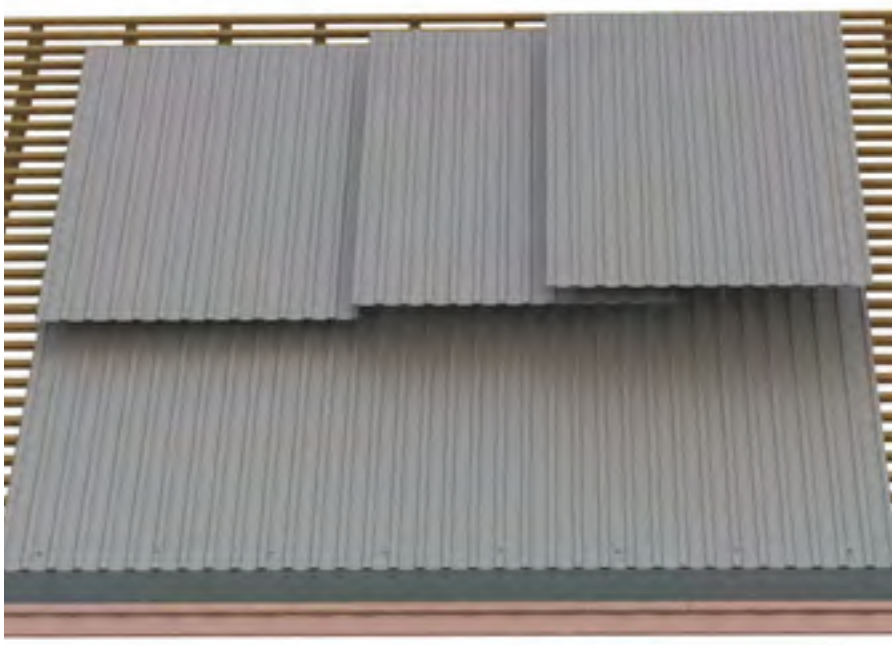
LAYOUT

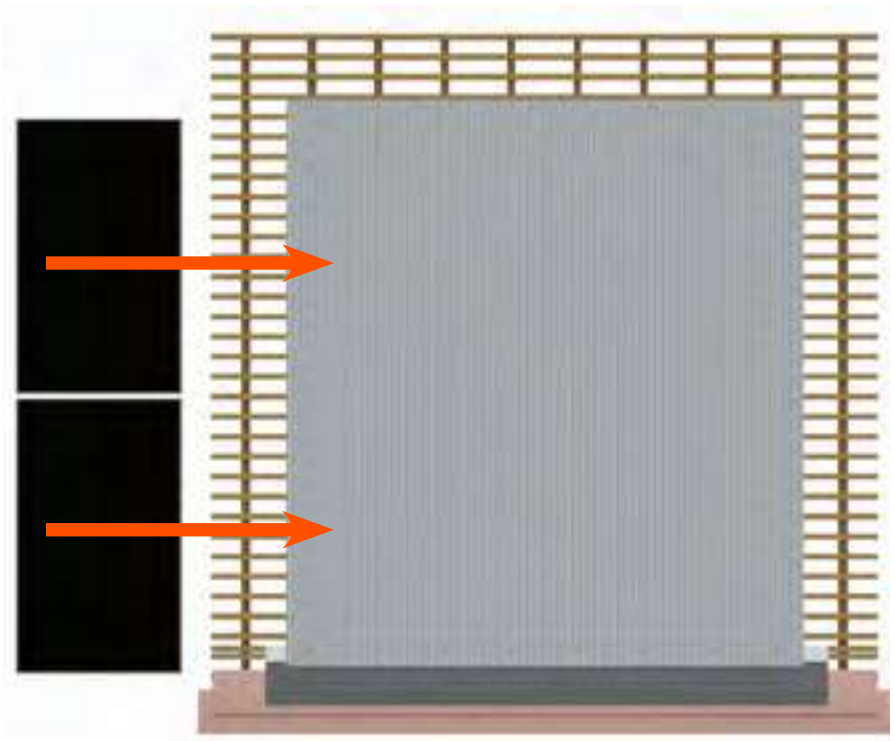
TRAPEZOIDAL SHEET











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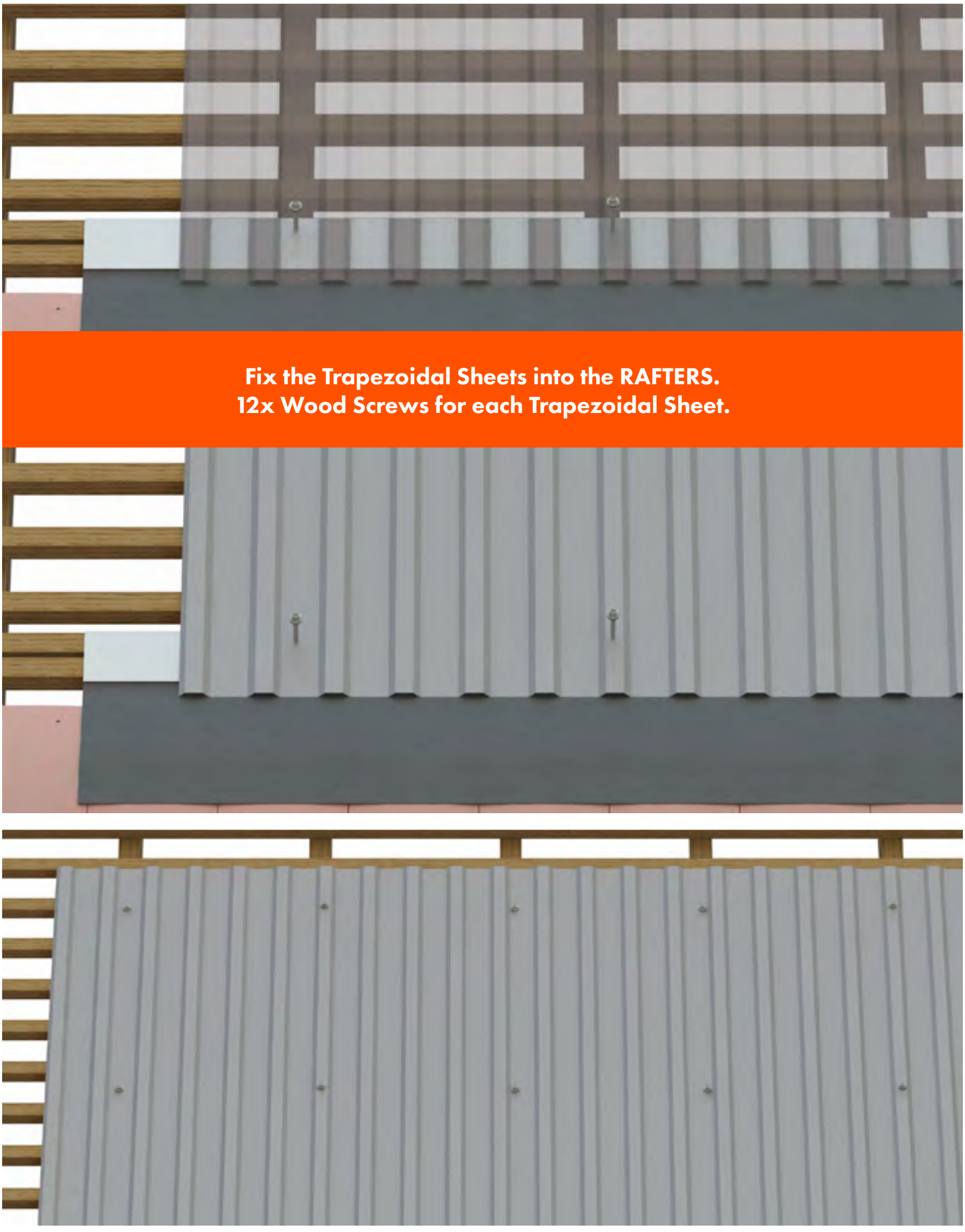
MOUNTING INSTRUCTIONS

HEX SOCKET DRIVER

BATTERY DRILL
NOT IMPACTOR

WOOD SCREW

TRAPEZOIDAL SHEET



Fix the Trapezoidal Sheets into the RAFTERS.
12x Wood Screws for each Trapezoidal Sheet.

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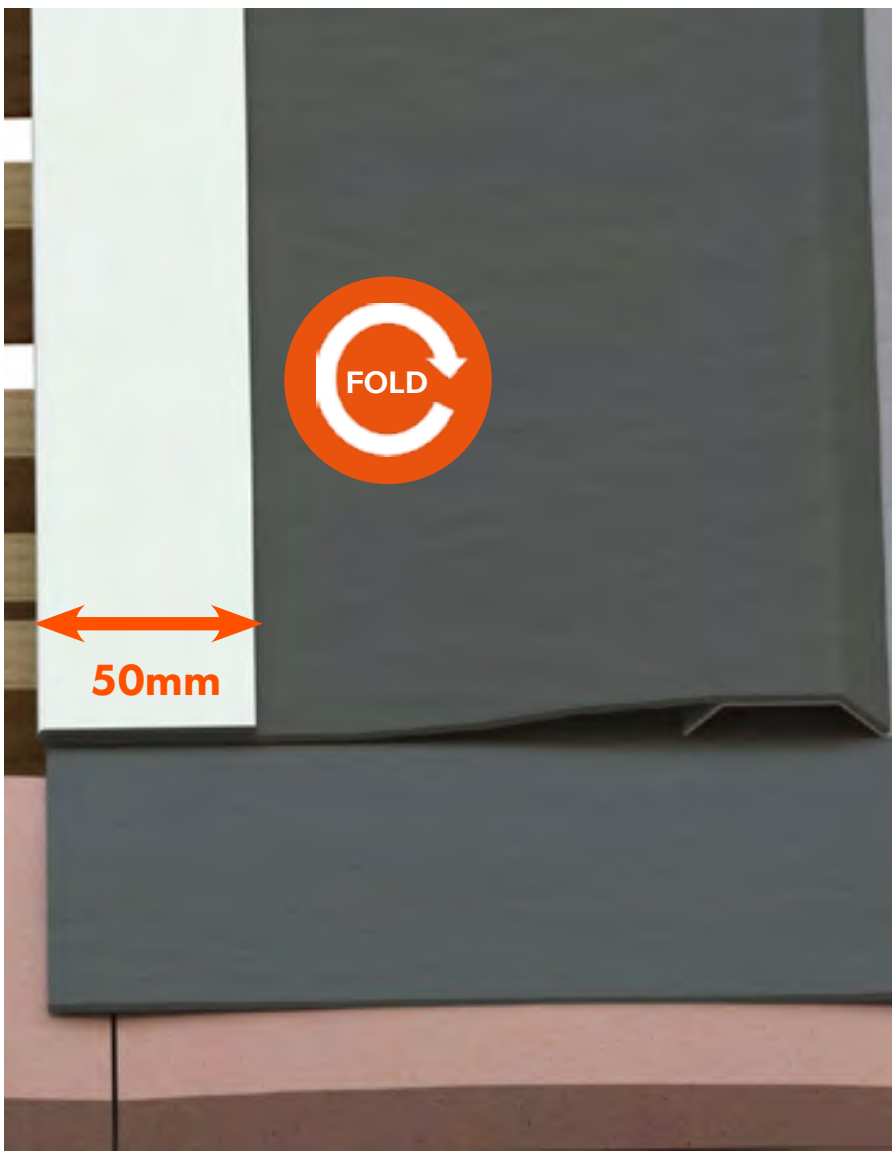
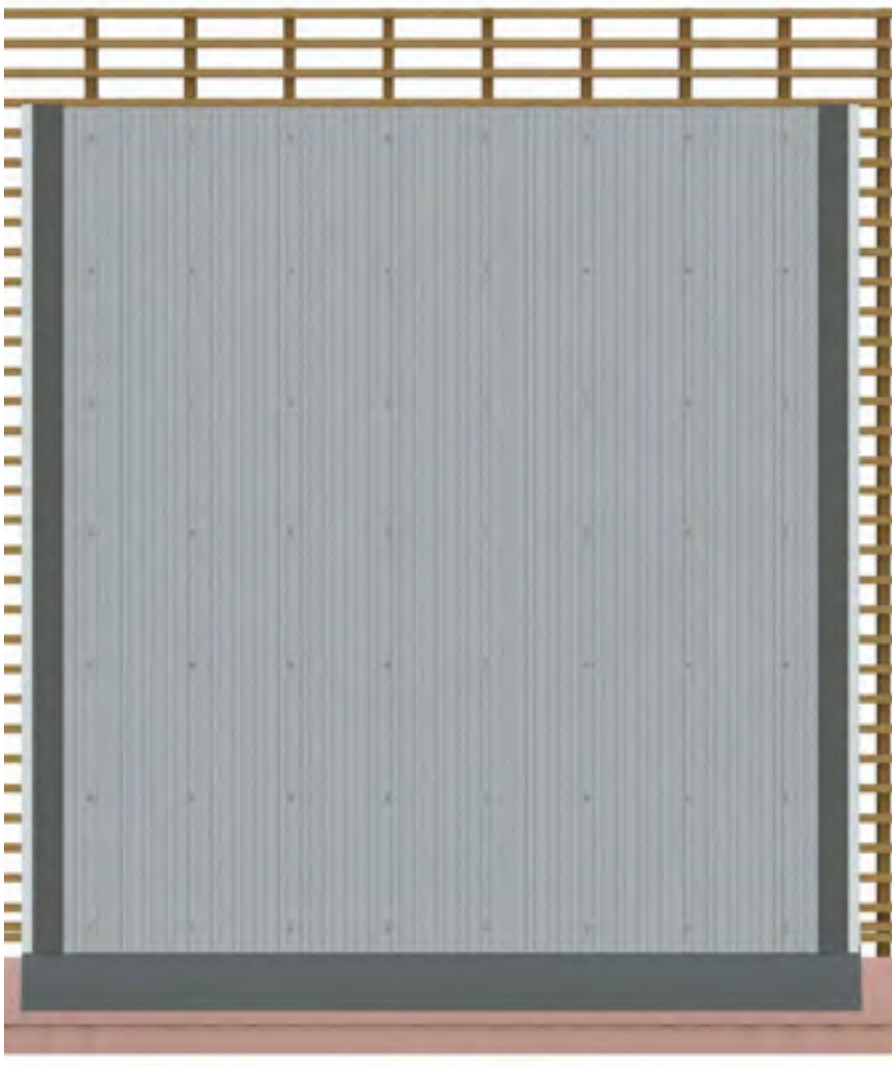
MOUNTING INSTRUCTIONS

**Fit the flashing to the sides of the array.
Peel off the backing from the Flex and stick over the 1st Trapezoidal Sheet.**

FLEX 250mm
SIDES





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Stick the Expansion Tape to the top of the array across the Trapezoidal Sheets.

EXPANSION TAPE

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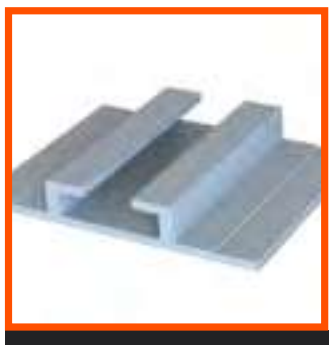
MOUNTING INSTRUCTIONS

HEX SOCKET DRIVER

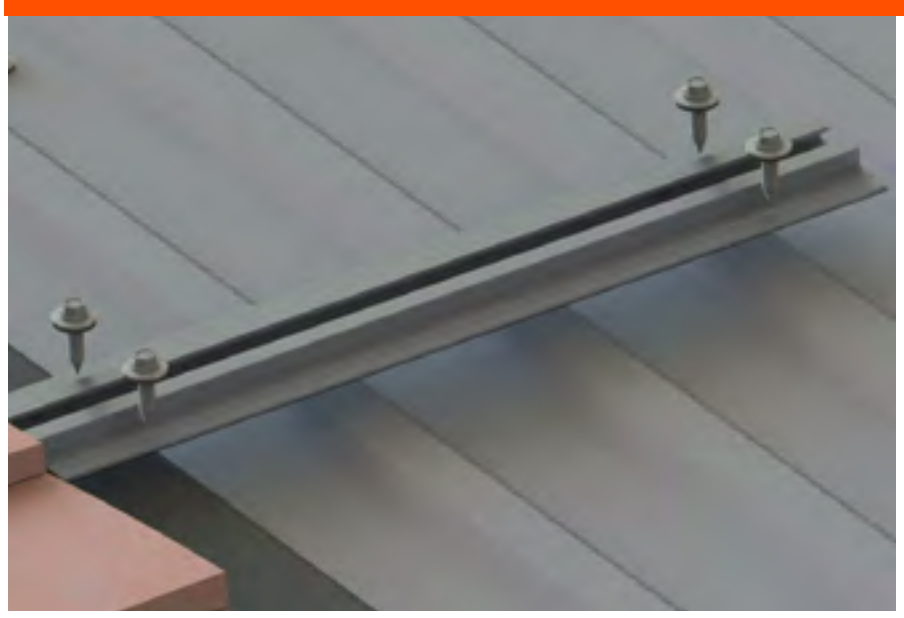
BATTERY DRILL NOT IMPACTOR

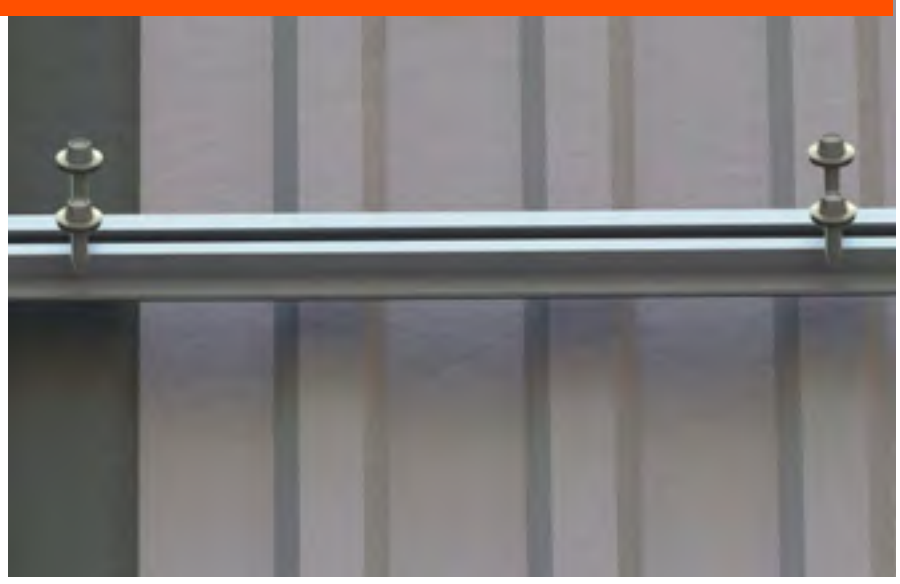


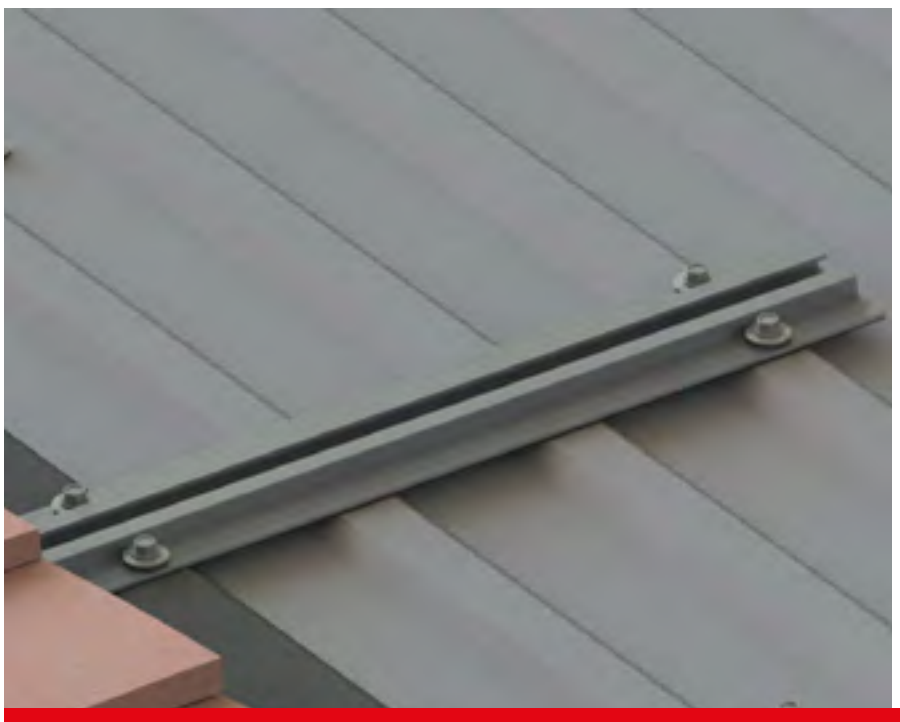
MOUNTING RAIL

SELF DRILLING SCREW

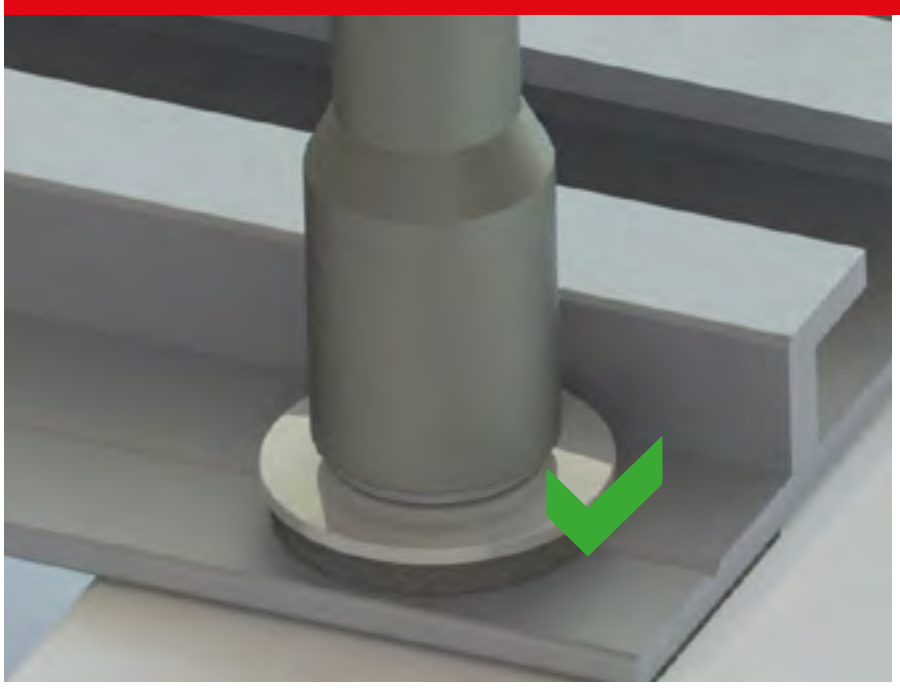
Fit the Mounting Rails to the Trapezoidal Sheets.
Use 4x Self Drilling Screws for each Mounting Rail.







DO NOT OVERTIGHTEN OR SQUASH THE WASHER.
DO NOT USE IMPACTORS



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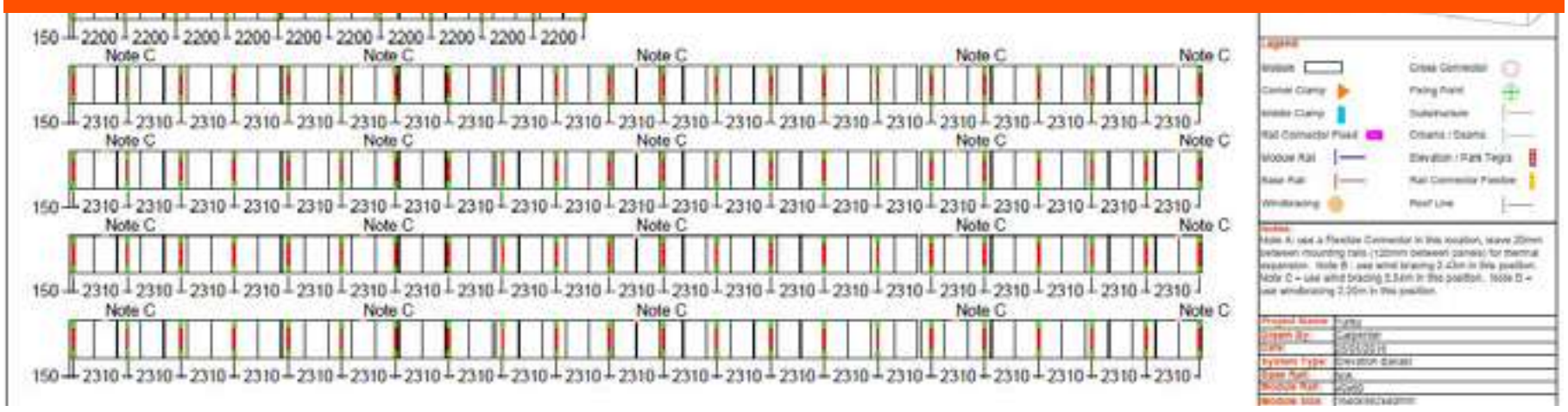
MOUNTING INSTRUCTIONS

LAYOUT

BALLAST BLOCK

Use the layout for:
1. the position of the Elevation Frames
2. the distance between the Elevation Frames
3. the position of the Wind Bracing, if your project needs it
4. the position of Flexible Connectors, if your project needs them



Depending on how much ballast is required, position the blocks as shown here.

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MOUNTING INSTRUCTIONS

BATTERY DRILL
NOT IMPACTOR

MASONRY DRILL BIT
SEE TABLE FOR SIZE

MECHANICAL
FIXING

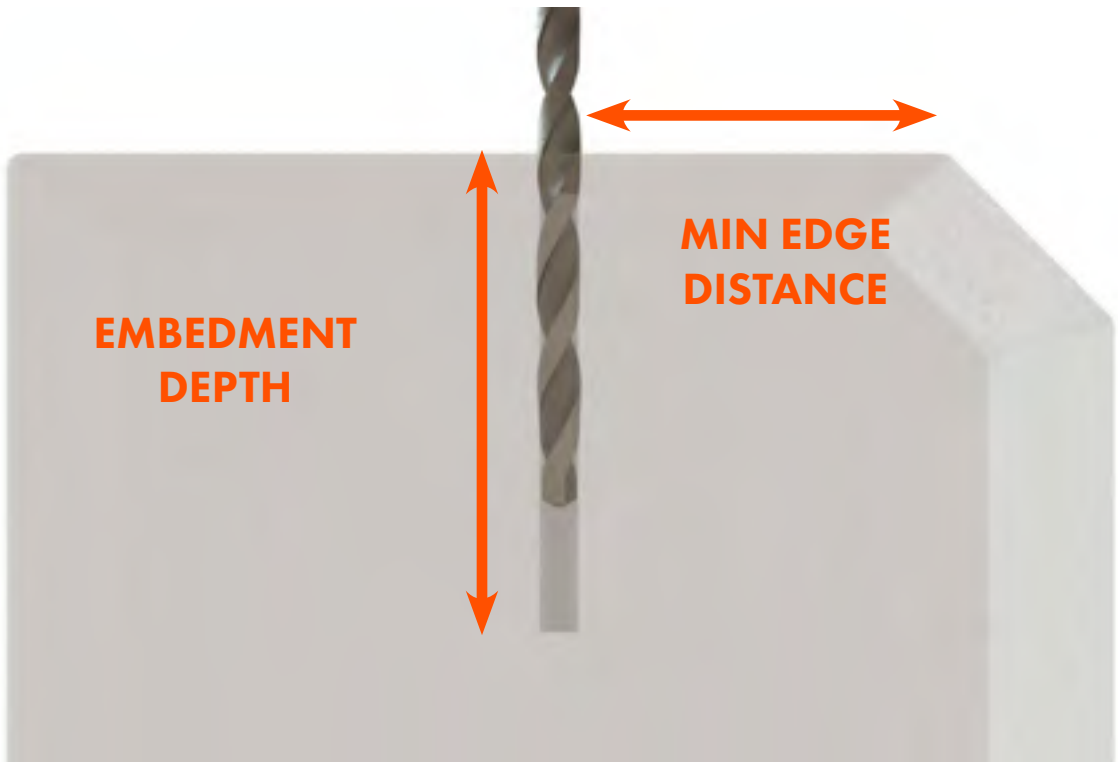
BALLAST BLOCK

Pre-drill the Ballast Block according to the dimensions in TABLE A.

CHEMICAL FIXING

Table A

Fixing Diameter Size	Embedment Depth	Min Edge Distance	Pre-Drill Hole
M10 Mechanical Fixing	70 mm	45 mm	10 mm
M12 Mechanical Fixing	90 mm	55 mm	12 mm
M10 Chemical Fixing	80 mm	45 mm	12 mm
M12 Chemical Fixing	95 mm	55 mm	14 mm



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MOUNTING INSTRUCTIONS

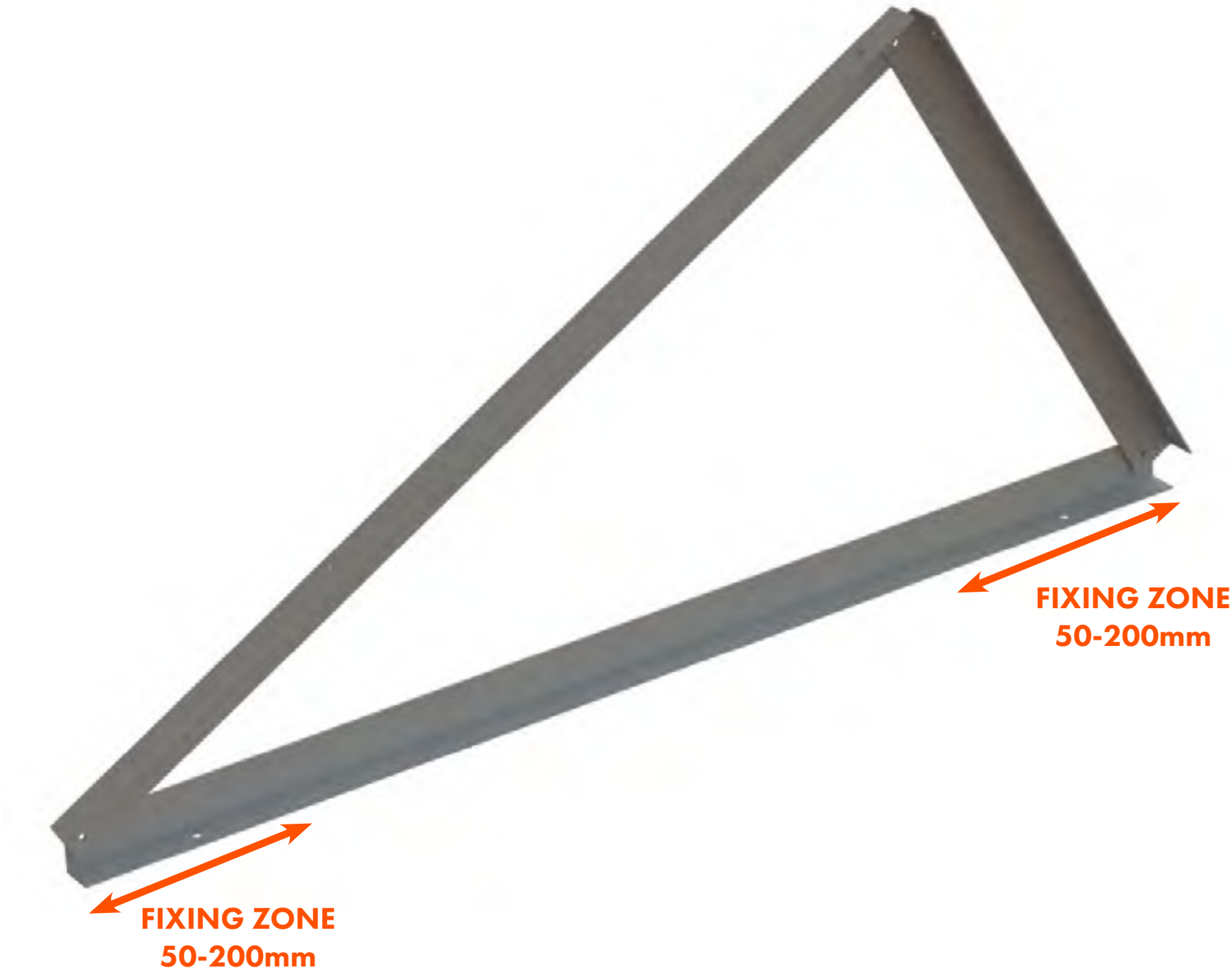
BATTERY DRILL
NOT IMPACTOR

HSS DRILL BIT
SEE TABLE FOR SIZE

ELEVATION FRAME

Table B	
Fixing Diameter Size	Pre-Drill Hole
M10 Mechanical Fixing	11 mm
M12 Mechanical Fixing	13 mm
M10 Chemical Fixing	11 mm
M12 Chemical Fixing	13 mm

Pre-drill the bottom of the Elevation Frame, please see TABLE B for the dimensions.



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MOUNTING INSTRUCTIONS

RESIN & APPLICATION TOOL

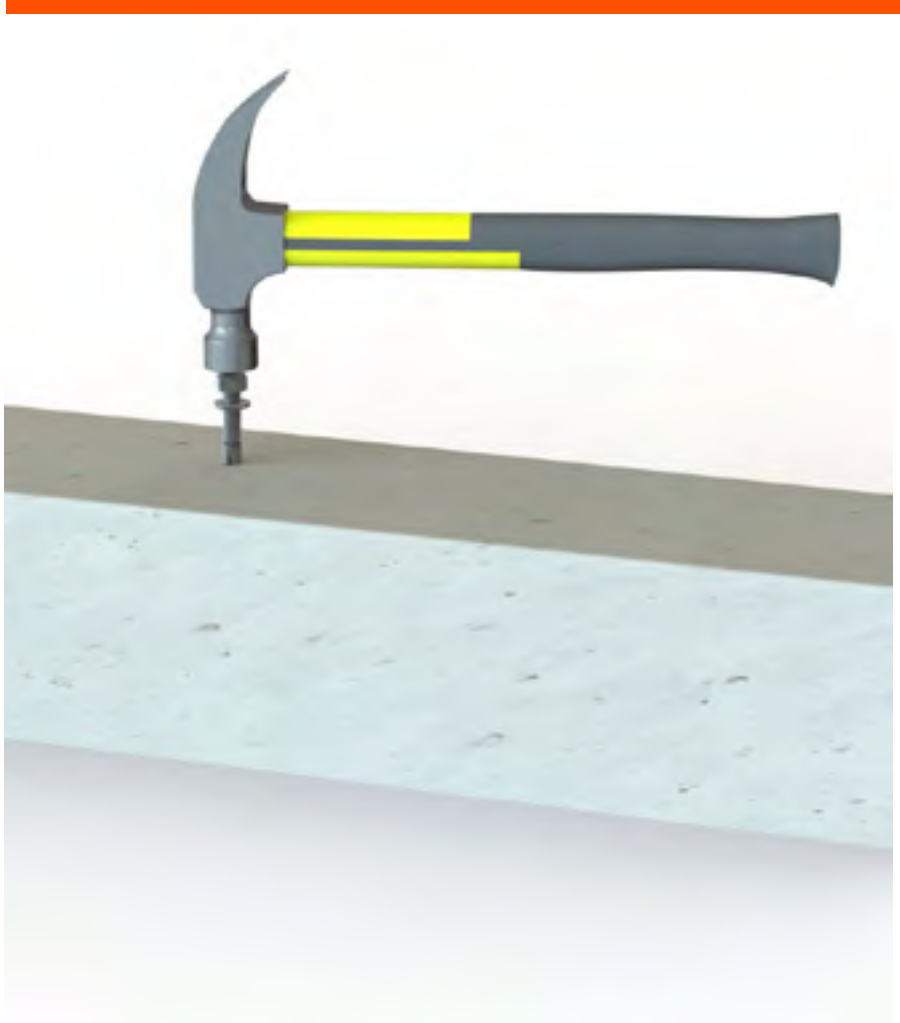
CHEMICAL FIXING

HAMMER

MECHNICAL FIXING

For Chemical Fixing follow the instructions on the Resin tube and Application Tool.

For Mechanical Fixing, hammer it into the pre-drilled hole.



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MOUNTING INSTRUCTIONS

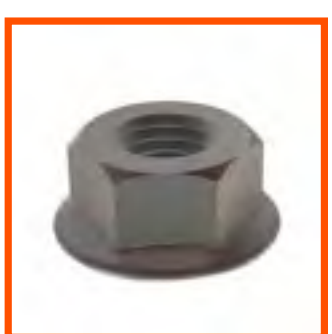
SPANNER
SEE SIZES BELOW

CHEMICAL FIXING

WASHER

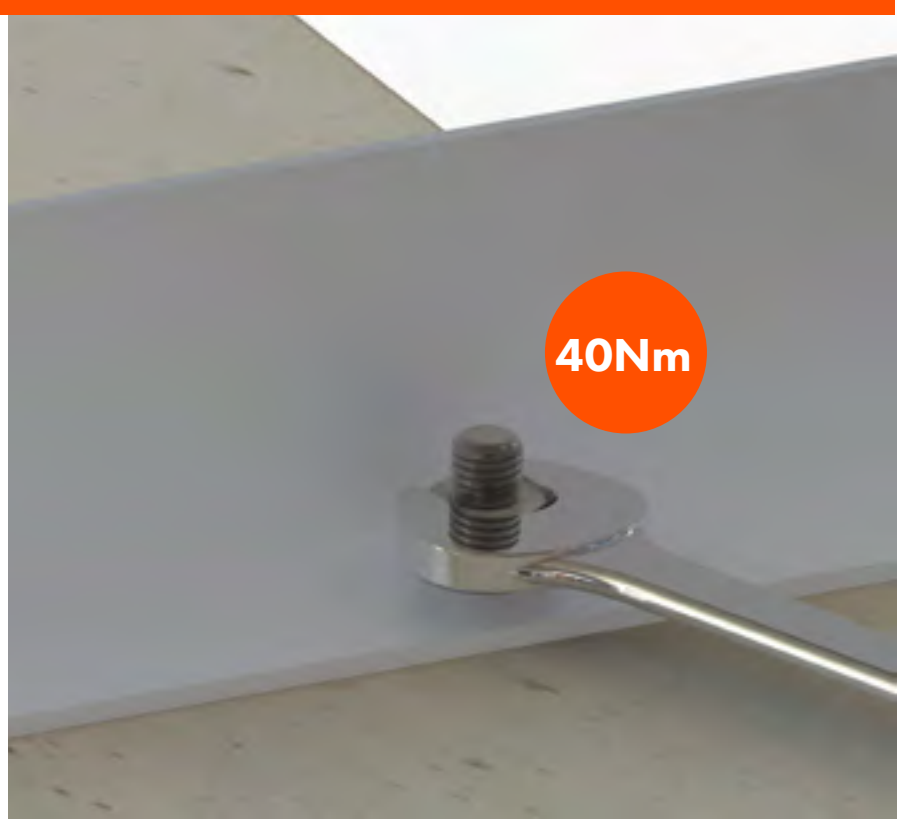
MECHNICAL
FIXING

Fixing Diameter Size	Spanner Size
M10 Mechanical Fixing	17 mm
M12 Mechanical Fixing	19 mm
M10 Chemical Fixing	17 mm
M12 Chemical Fixing	19 mm

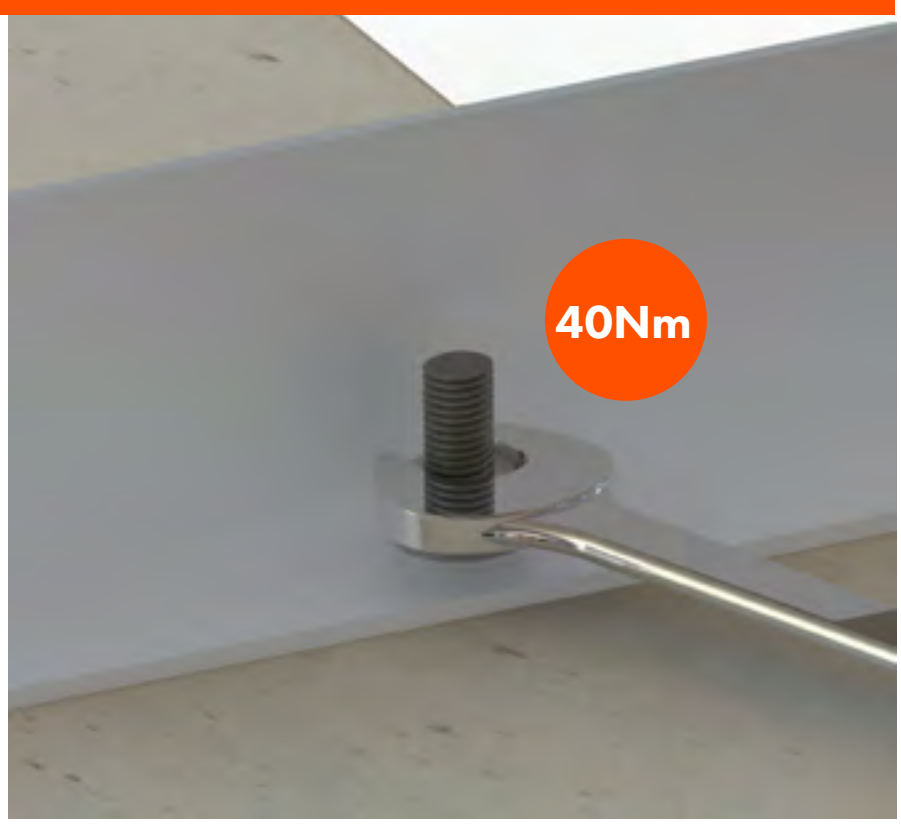


SERRATED NUT

Mechanical Fixing: tighten the fixing into the concrete ballast



Chemical Fixing: tighten the fixing into the concrete ballast



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MOUNTING INSTRUCTIONS

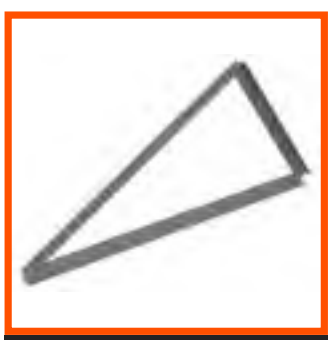
SPANNER

ALLEN KEY

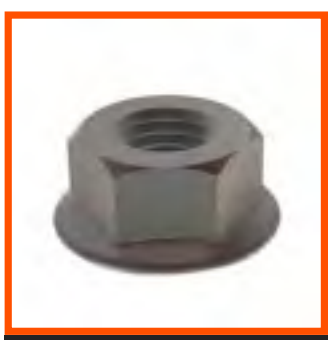
WASHER

CYLINDER HEAD SCREW

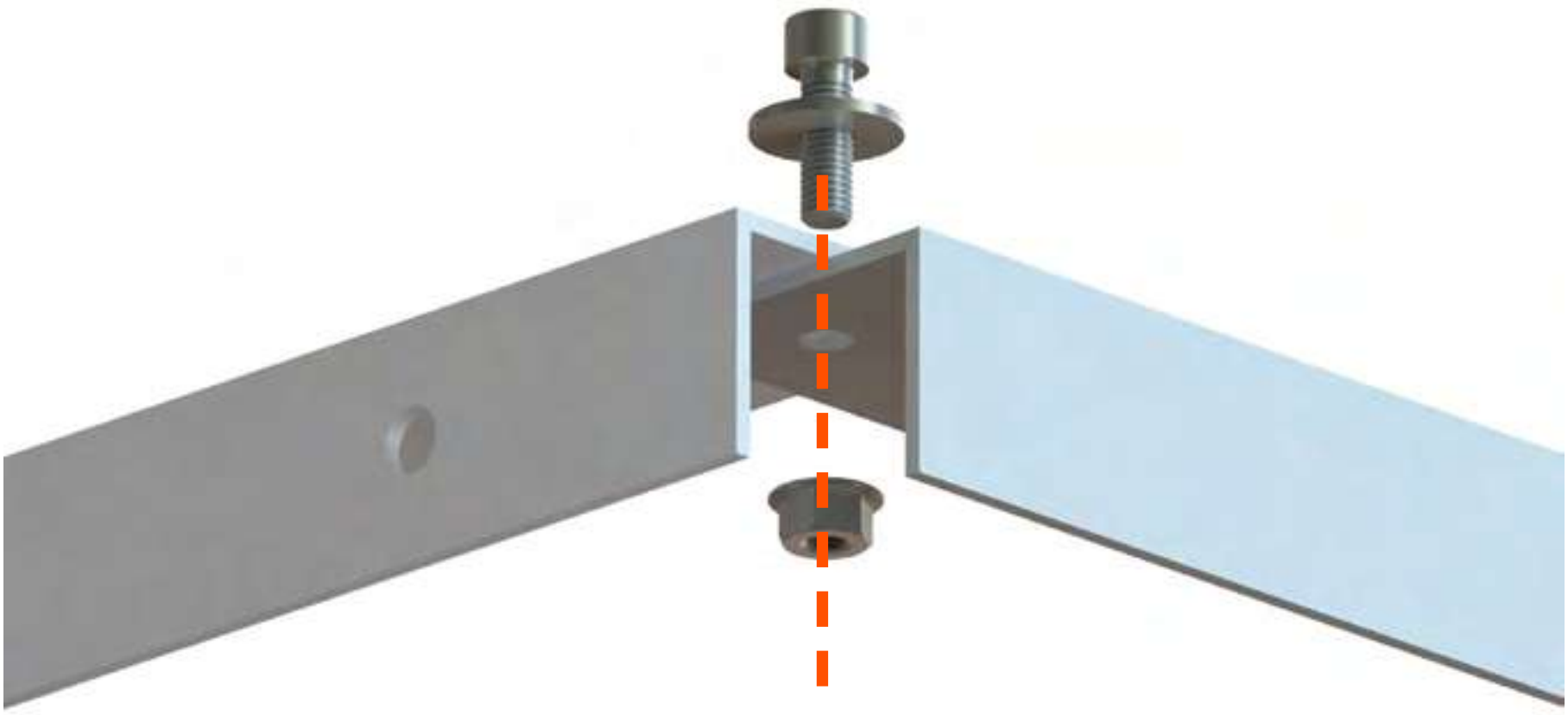
Tighten the bolts and nuts of the Elevation Frame.



ELEVATION FRAME



M8 SERRATED NUT



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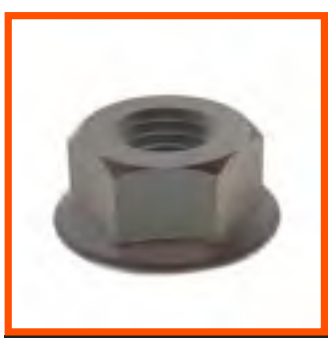
MOUNTING INSTRUCTIONS

SPANNER

MOUNTING RAIL

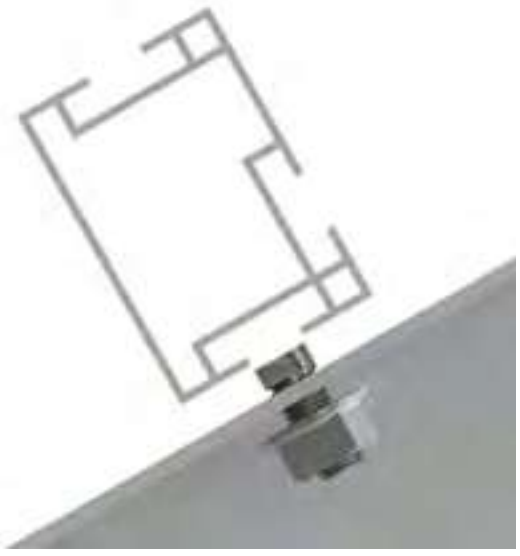
M10 T BOLT

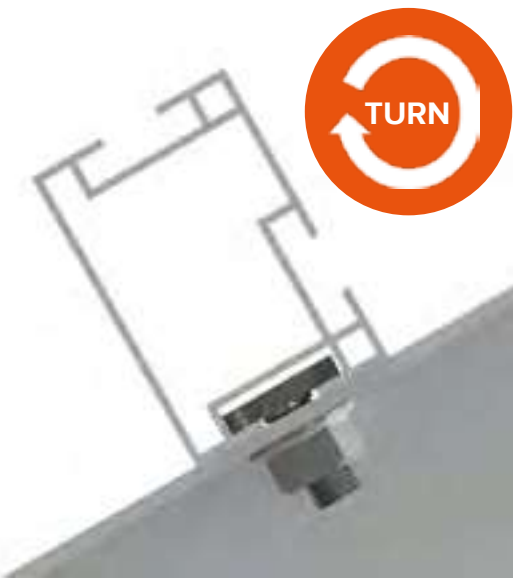


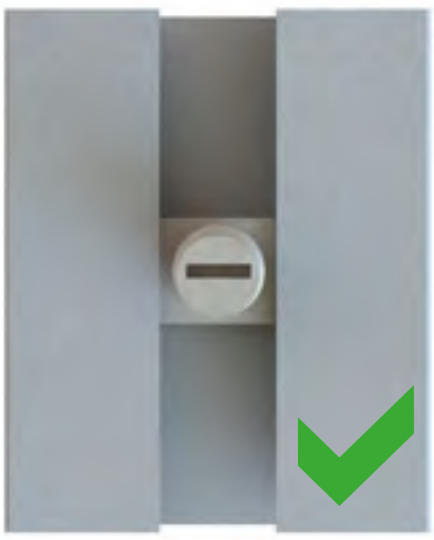
M10 SERRATED NUT

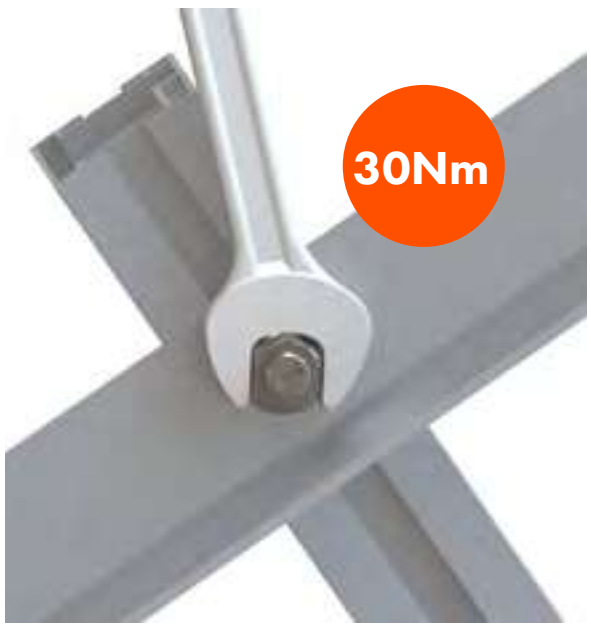
Attach the Mounting Rail.
There will already be holes in the top of the Elevation Frame for attaching the Mounting Rail.

ELEVATION FRAME









PORTRAIT SOLAR PANEL

LANDSCAPE SOLAR PANEL

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MOUNTING INSTRUCTIONS

LAYOUT

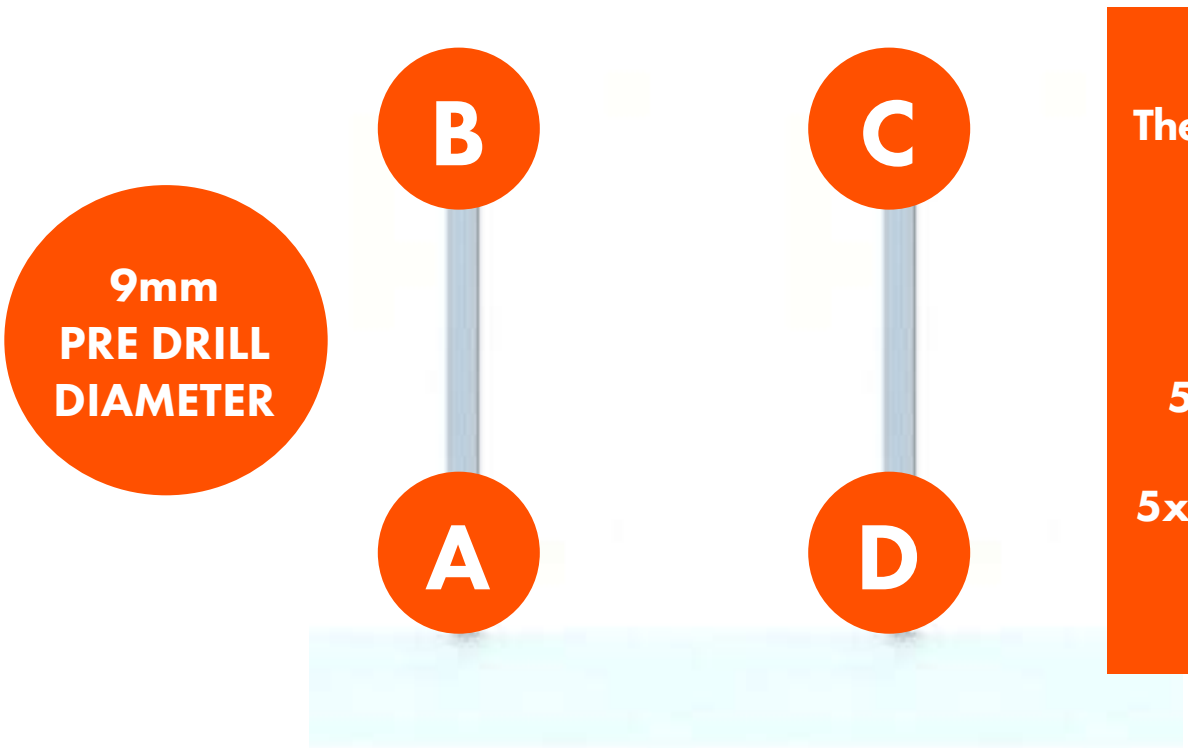
BATTERY DRILL
NOT IMPACTOR

HSS DRILL BIT

WIND BRACING SET

Pre-drill pilot holes for the Wind Bracing.
The layout will tell you where to position the Wind Bracing, if your project needs it.
You only need to pre-drill the back of the Elevation Frames as shown.
Pre-drill a pilot hole (9mm diameter) for each A, B, C & D positions.

ELEVATION FRAME



The Wind Bracing Set includes:

1x Flat Piece
1x L Piece
5x Cylinder Head Screws
5x M8 Serrated Nuts
5x M8 Washers

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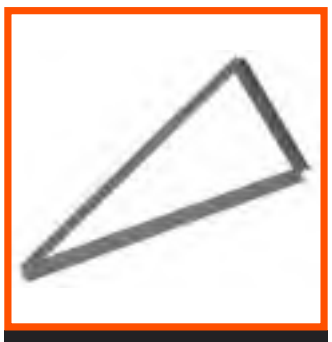
MOUNTING INSTRUCTIONS

BATTERY DRILL
NOT IMPACTOR

HSS DRILL BIT

WIND BRACING SET



ELEVATION FRAME

Pre-drill a pilot hole (9mm diameter) into each end of the Flat Piece, so that they match holes A and C.
Pre-drill a pilot hole (9mm diameter) into each end of the L Piece, so that they match holes B and D.
Pre-drill a pilot hole (9mm diameter) into each end of the Flat Piece and L Piece, where they cross over in the middle.

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MOUNTING INSTRUCTIONS

ALLEN KEY

SPANNER

WIND BRACING SET

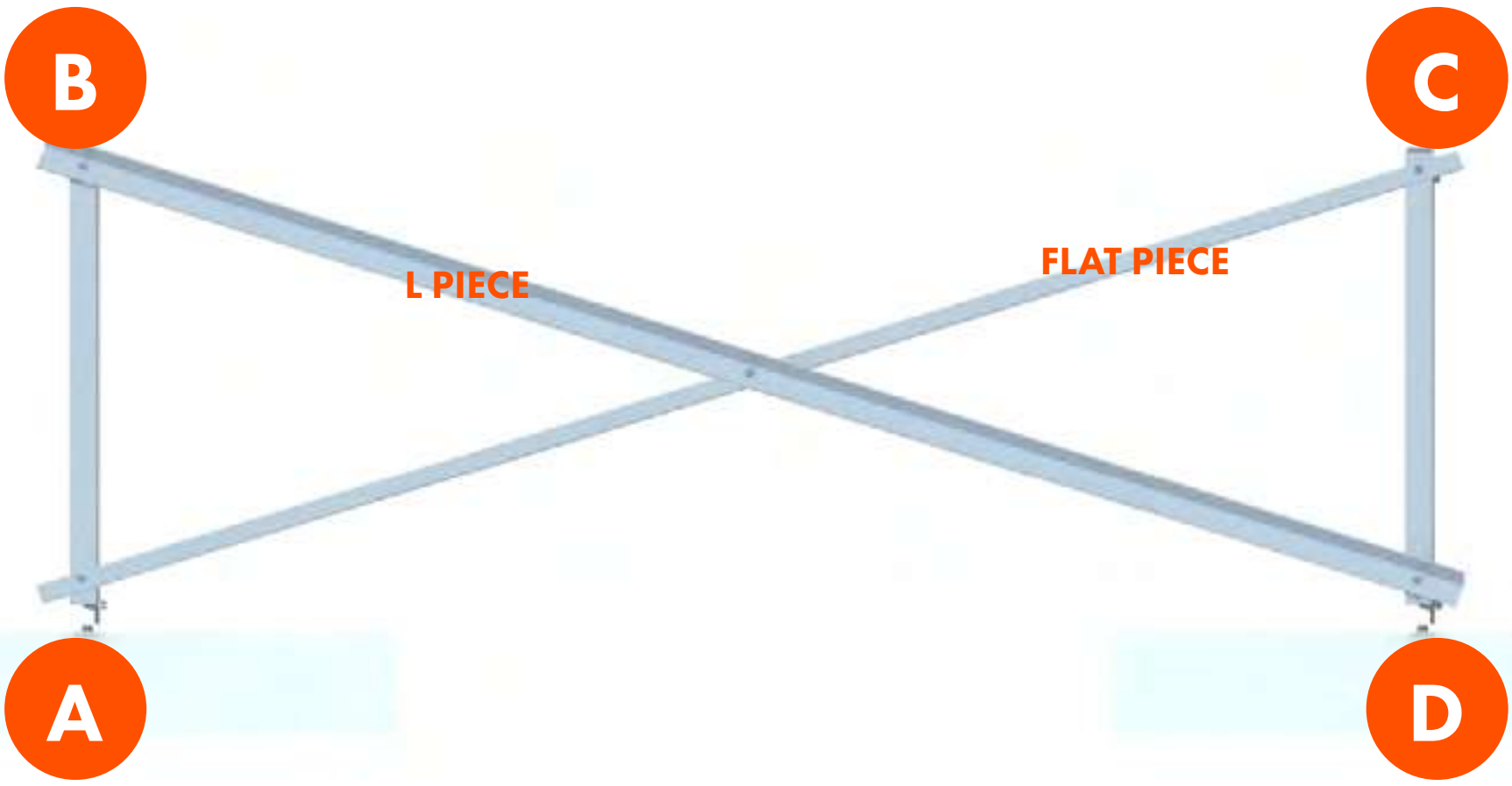
M8 SERRATED NUT

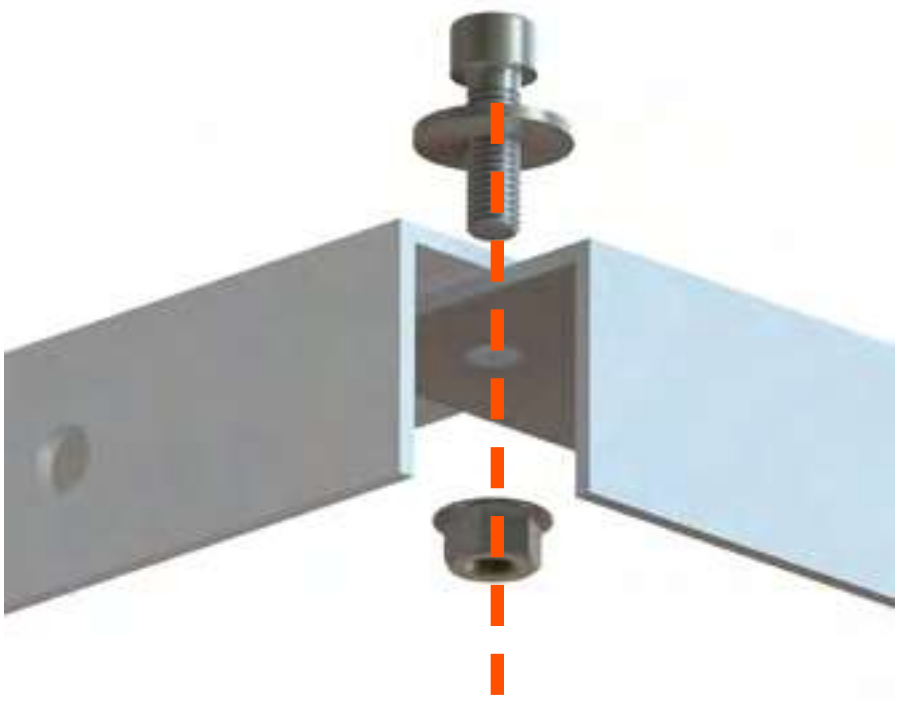
Place the Flat Piece so that it sits over holes A & C. Fix using a Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

Place the L Piece so that it sits over holes B & D. Fix using a Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

Fix the centre with a Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

M8 WASHER





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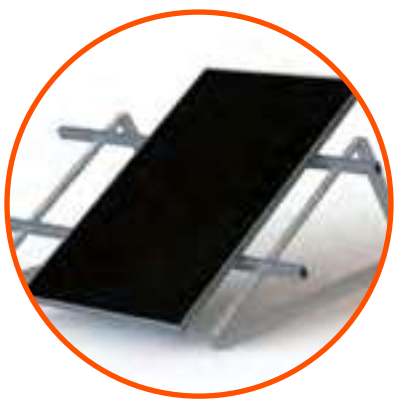
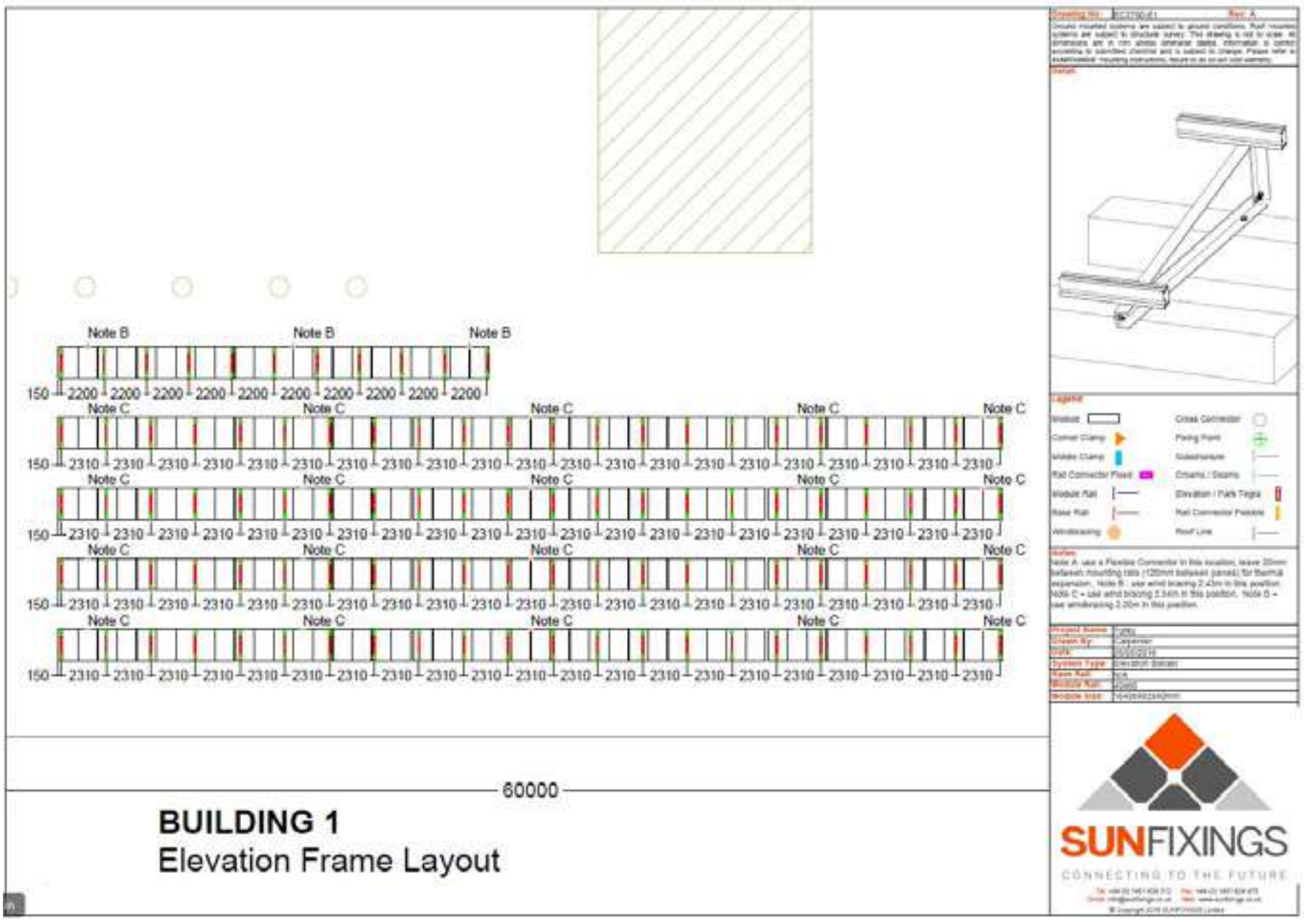
MOUNTING INSTRUCTIONS



LAYOUT

Use the layout for:
1. the position of the Elevation Frames
2. the distance between the Elevation Frames
3. the position of the Wind Bracing, if your project needs it
4. the position of Flexible Connectors, if your project needs them



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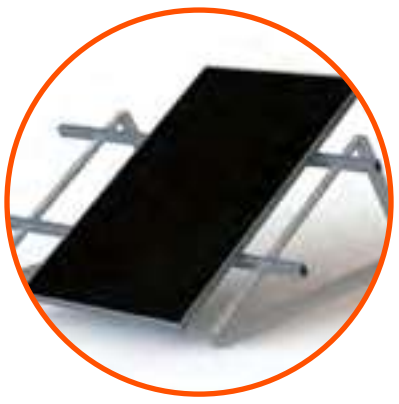
MOUNTING INSTRUCTIONS



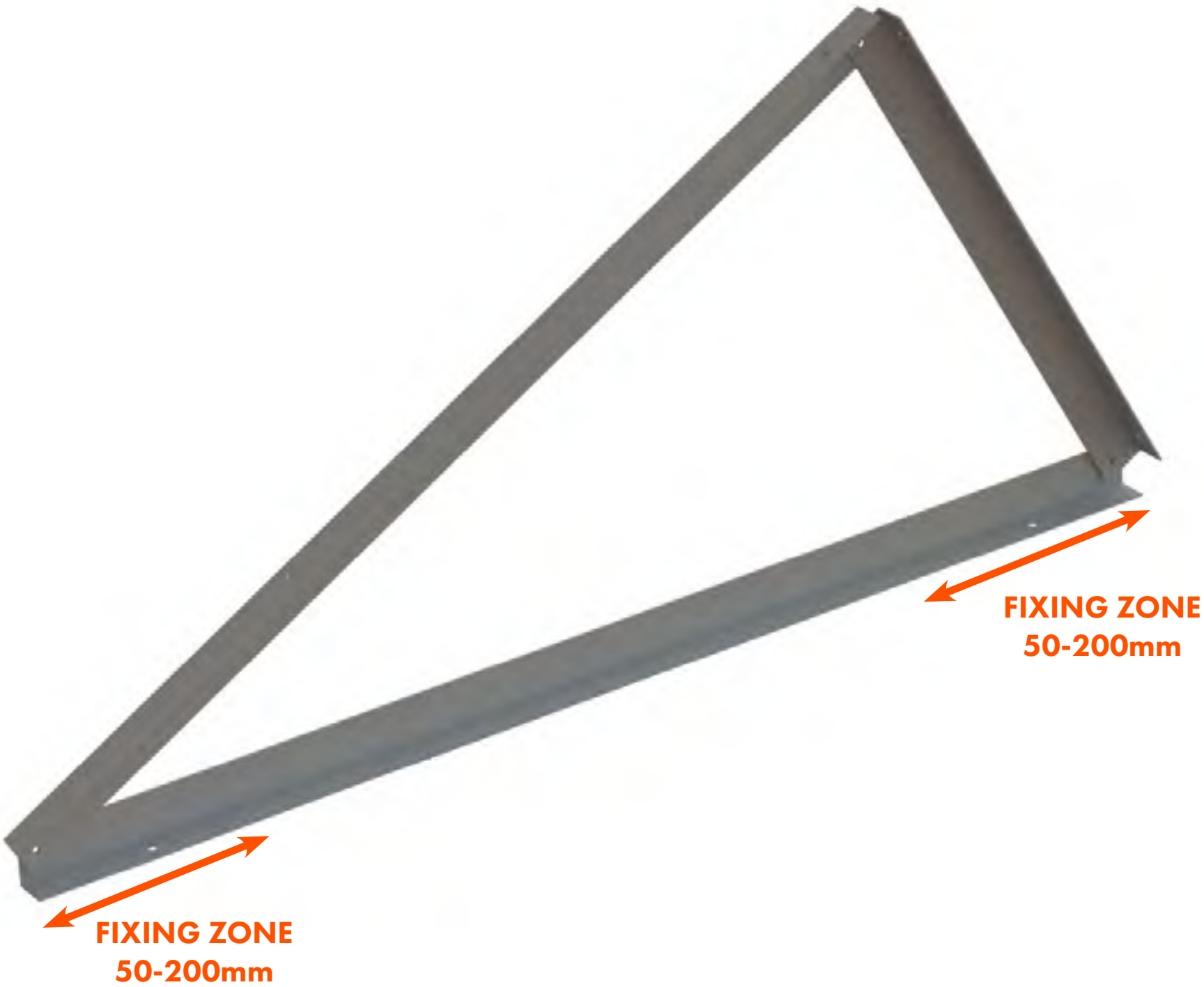
BATTERY DRILL
NOT IMPACTOR

HSS DRILL BIT
SEE TABLE FOR SIZE

ELEVATION FRAME

Table B	
Fixing Diameter Size	**Pre-Drill Hole**
M10 Mechanical Fixing	11 mm
M12 Mechanical Fixing	13 mm
M10 Chemical Fixing	11 mm
M12 Chemical Fixing	13 mm

Pre-drill the bottom of the Elevation Frame, please see TABLE B for the dimensions.



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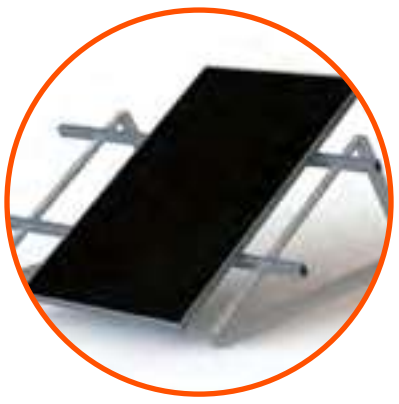
MOUNTING INSTRUCTIONS



SPANNER

ALLEN KEY

CYLINDER HEAD SCREW

M8 WASHER

Installing directly to Standing Seam Round Clamps

M8 SERRATED NUT

CLICK HERE FOR STANDING SEAM INSTRUCTIONS

SPANNER

M10x30 BOLT

M10 SERRATED NUT

M8 WASHER

Installing directly to Hook Plate 3.8

CLICK HERE FOR HOOK PLATE 3.8 INSTRUCTIONS

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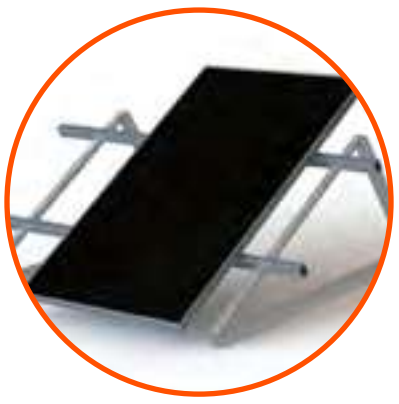
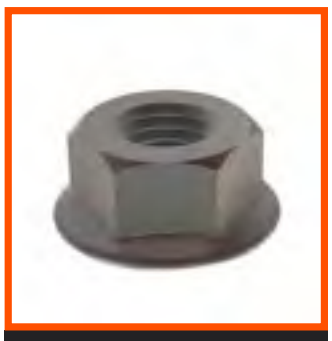


SPANNER

M10 T BOLT



M10 SERRATED NUT

Installing directly to Base Rail (in line with Elevation)

CLICK HERE FOR BASE RAIL INSTRUCTIONS

SPANNER

M10 T BOLT

M10 SERRATED NUT

Installing directly to Base Rail (crossing the Elevation)

CLICK HERE FOR BASE RAIL INSTRUCTIONS

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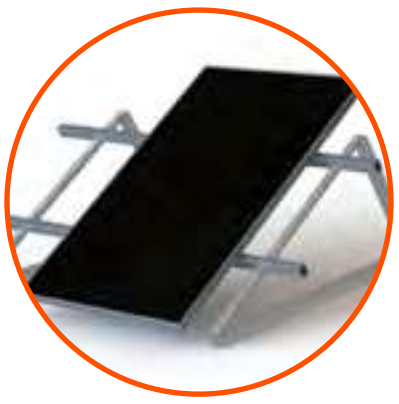
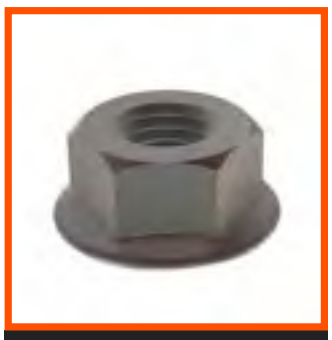
MOUNTING INSTRUCTIONS



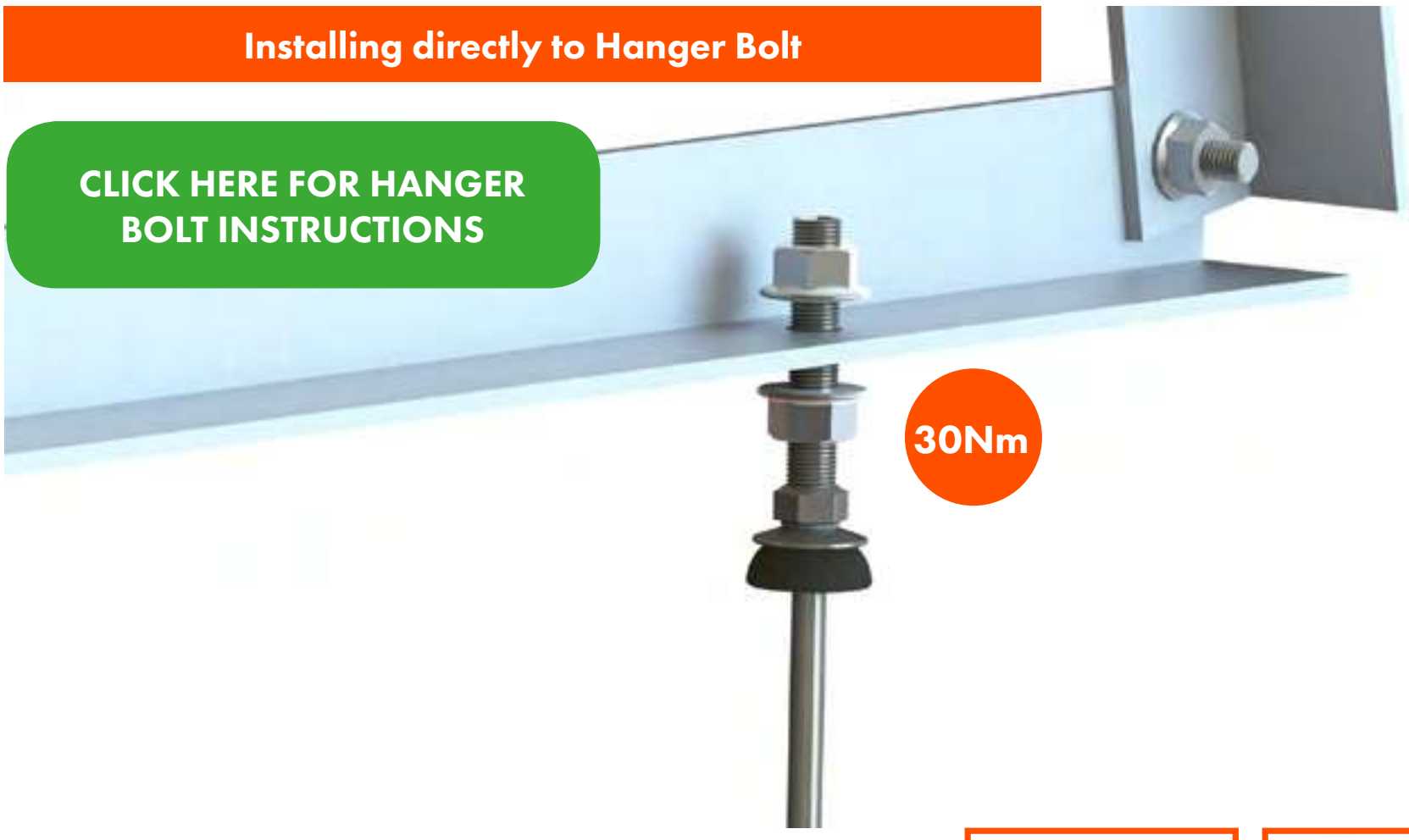
SPANNER



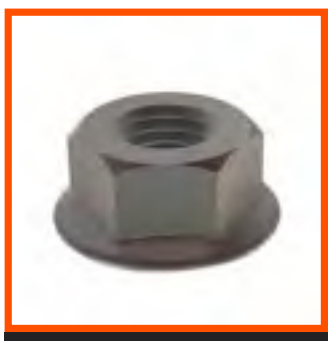
M10 SERRATED NUT

Installing directly to Hanger Bolt

CLICK HERE FOR HANGER BOLT INSTRUCTIONS



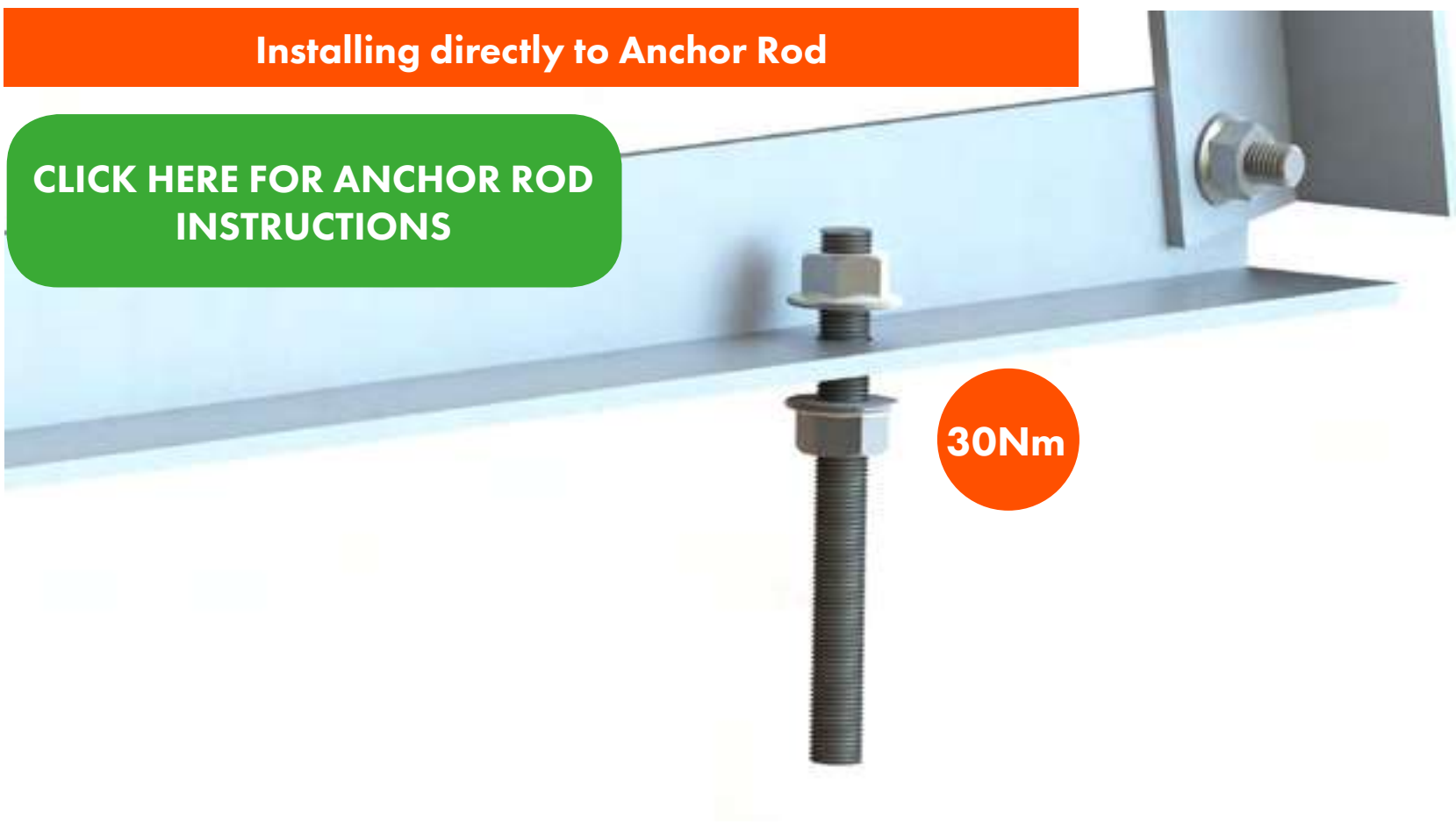
SPANNER



M8 SERRATED NUT

Installing directly to Anchor Rod

CLICK HERE FOR ANCHOR ROD INSTRUCTIONS



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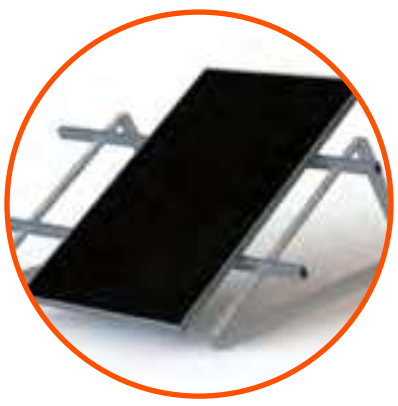
MOUNTING INSTRUCTIONS



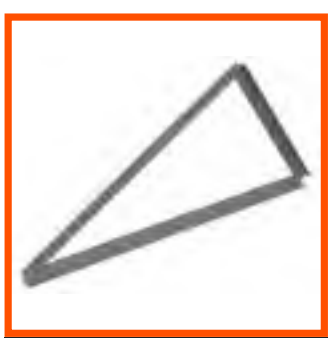
SPANNER

ALLEN KEY

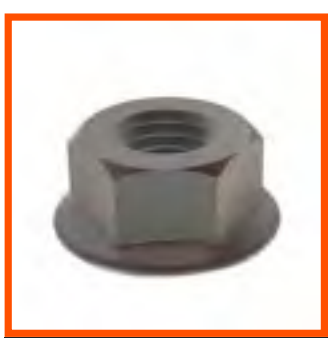
WASHER

CYLINDER HEAD SCREW

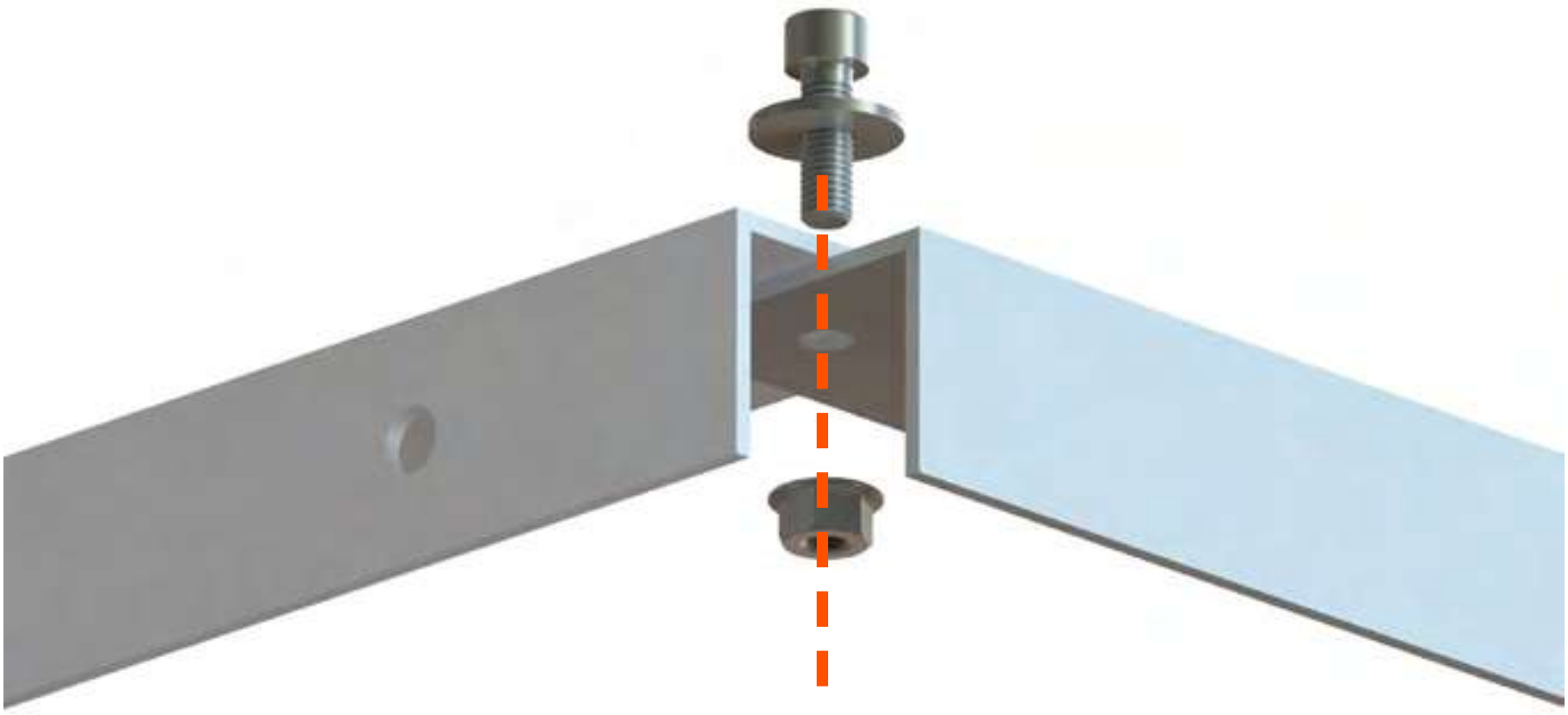
Tighten the bolts and nuts of the Elevation Frame.



ELEVATION FRAME



M8 SERRATED NUT



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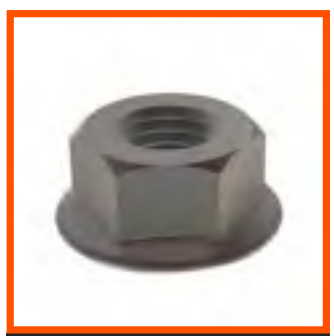
MOUNTING INSTRUCTIONS

SPANNER

MOUNTING RAIL

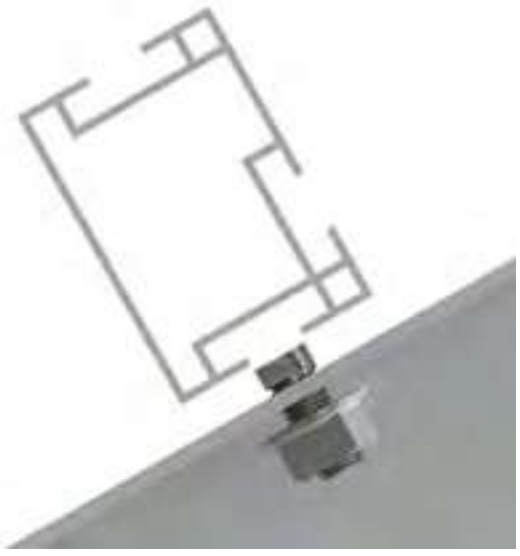
M10 T BOLT

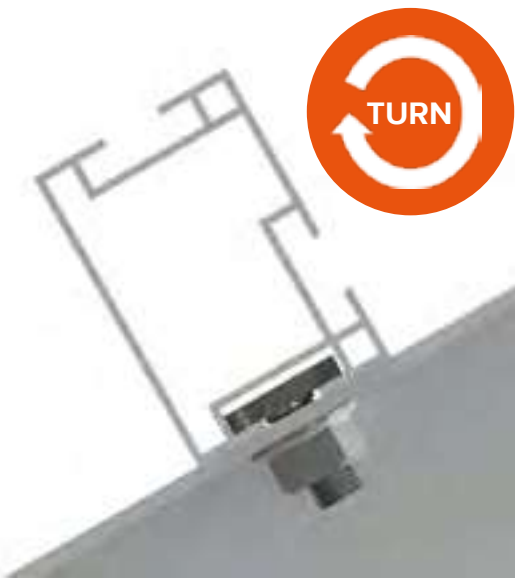


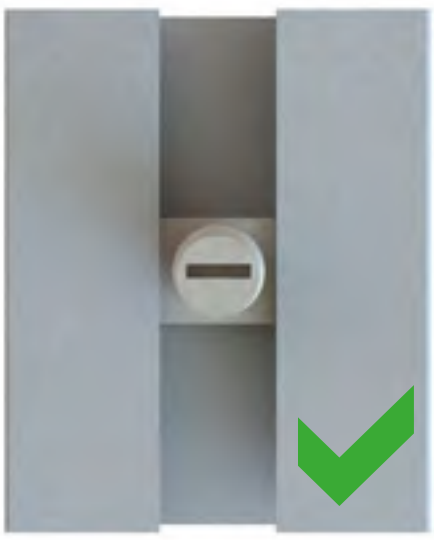
M10 SERRATED NUT

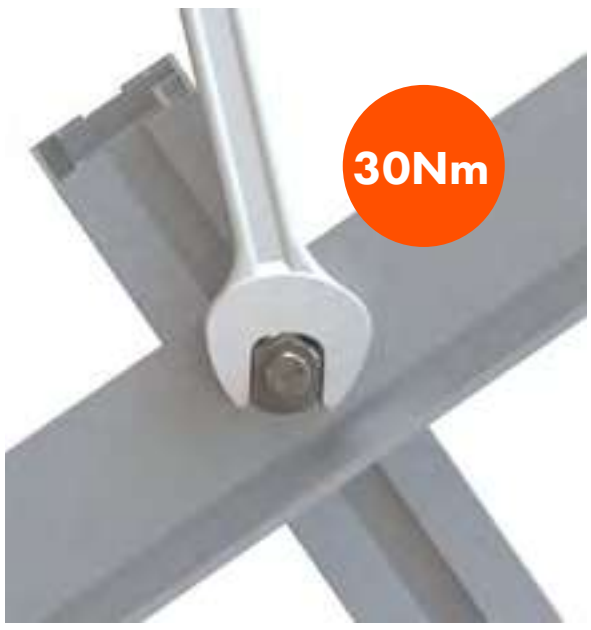
Attach the Mounting Rail.
There will already be holes in the top of the Elevation Frame for attaching the Mounting Rail.

ELEVATION FRAME









PORTRAIT SOLAR PANEL

LANDSCAPE SOLAR PANEL

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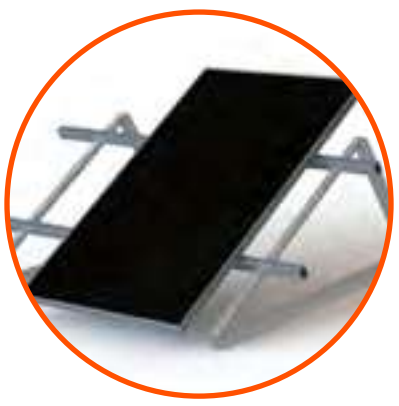
MOUNTING INSTRUCTIONS



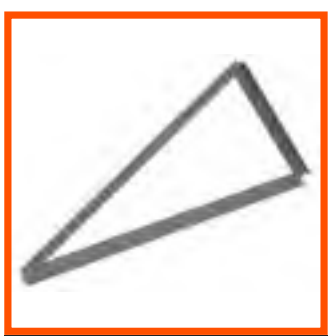
LAYOUT

BATTERY DRILL
NOT IMPACTOR

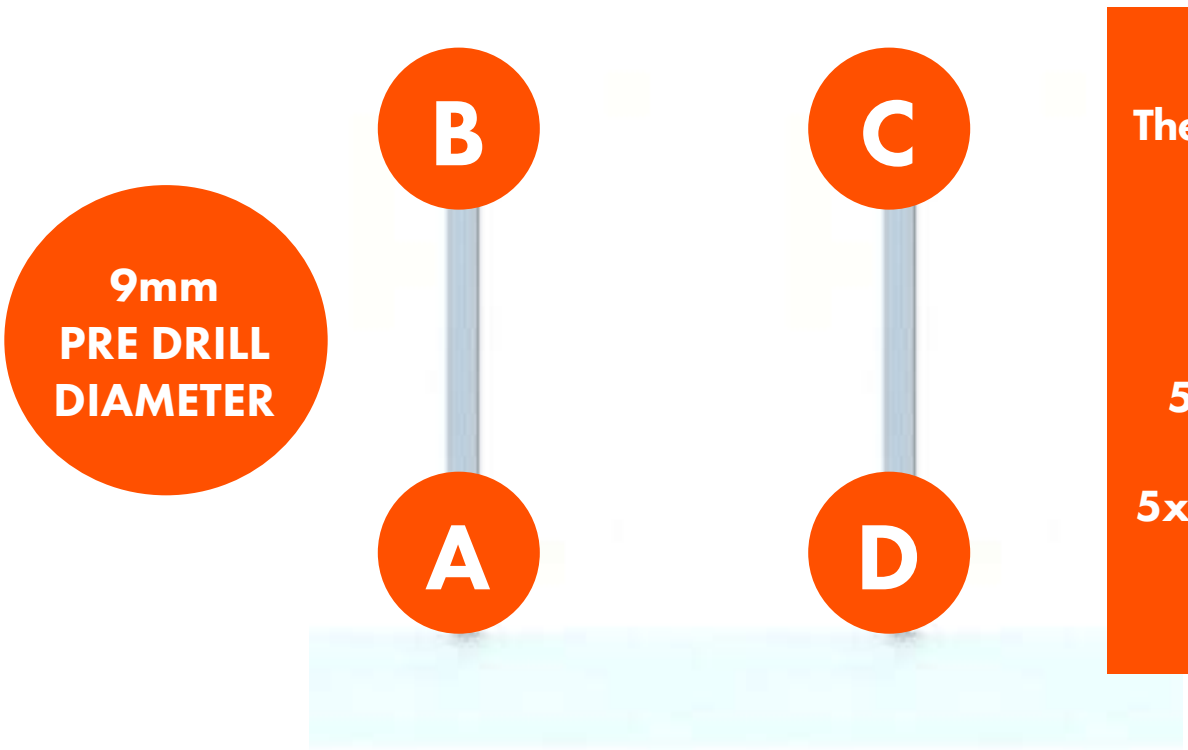
HSS DRILL BIT

WIND BRACING SET

Pre-drill pilot holes for the Wind Bracing.
The layout will tell you where to position the Wind Bracing, if your project needs it.
You only need to pre-drill the back of the Elevation Frames as shown.
Pre-drill a pilot hole (9mm diameter) for each A, B, C & D positions.



ELEVATION FRAME



The Wind Bracing Set includes:

1x Flat Piece
1x L Piece
5x Cylinder Head Screws
5x M8 Serrated Nuts
5x M8 Washers

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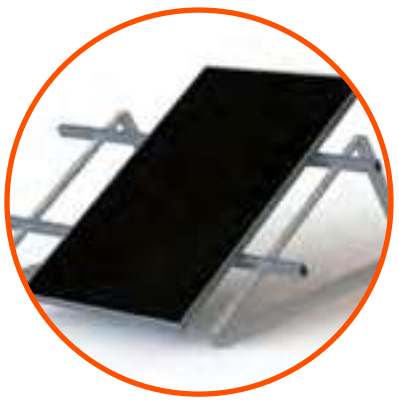
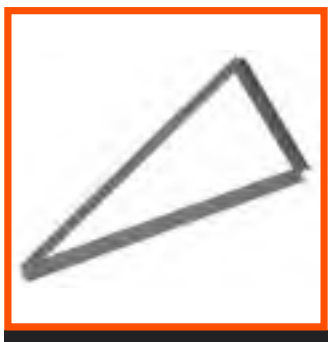
MOUNTING INSTRUCTIONS



BATTERY DRILL
NOT IMPACTOR

HSS DRILL BIT

WIND BRACING SET



ELEVATION FRAME

Pre-drill a pilot hole (9mm diameter) into each end of the Flat Piece, so that they match holes A and C.
Pre-drill a pilot hole (9mm diameter) into each end of the L Piece, so that they match holes B and D.
Pre-drill a pilot hole (9mm diameter) into each end of the Flat Piece and L Piece, where they cross over in the middle.

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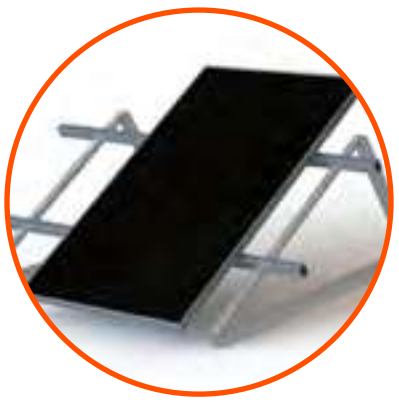
MOUNTING INSTRUCTIONS



ALLEN KEY

SPANNER

WIND BRACING SET

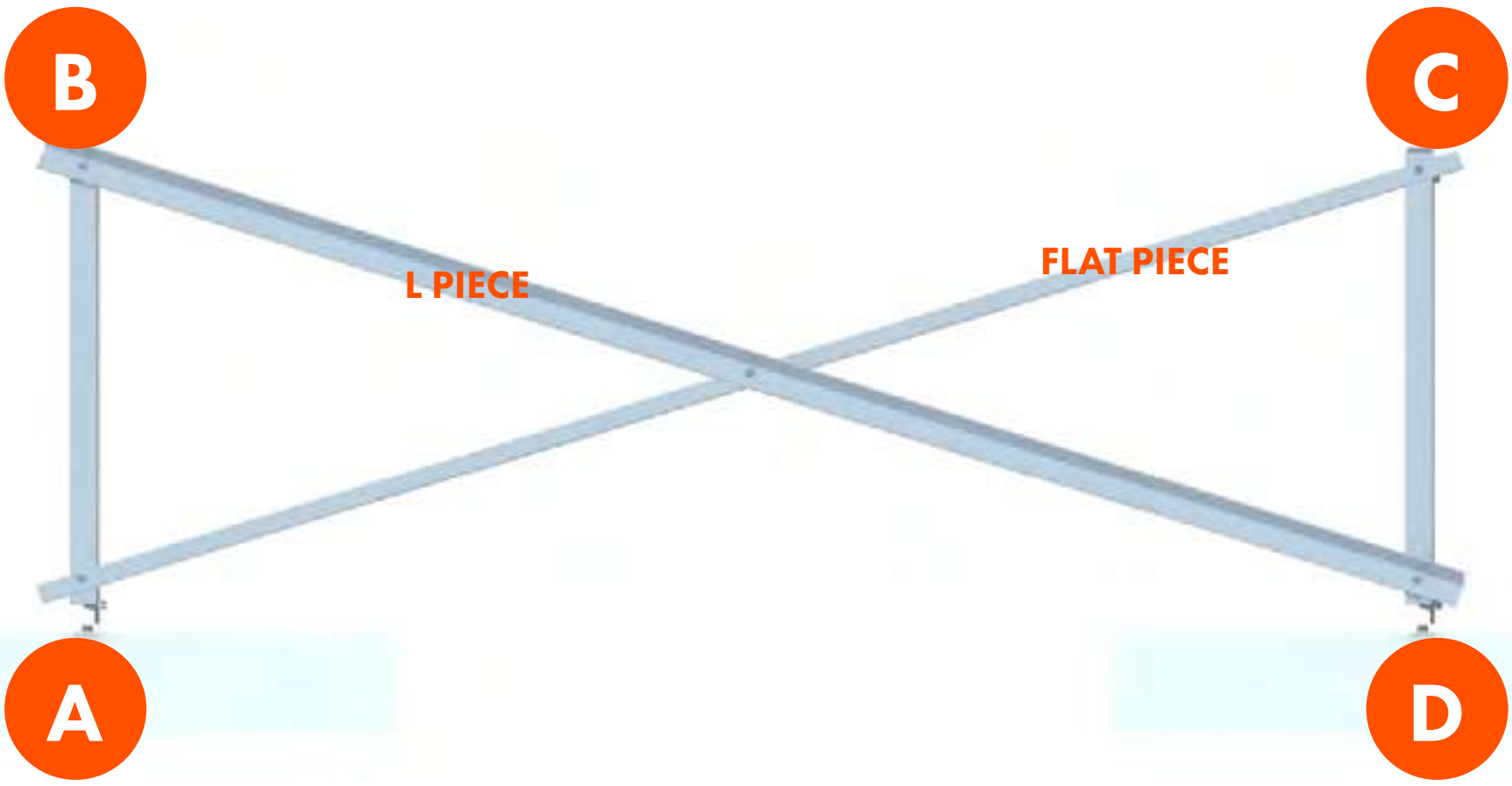
M8 SERRATED NUT

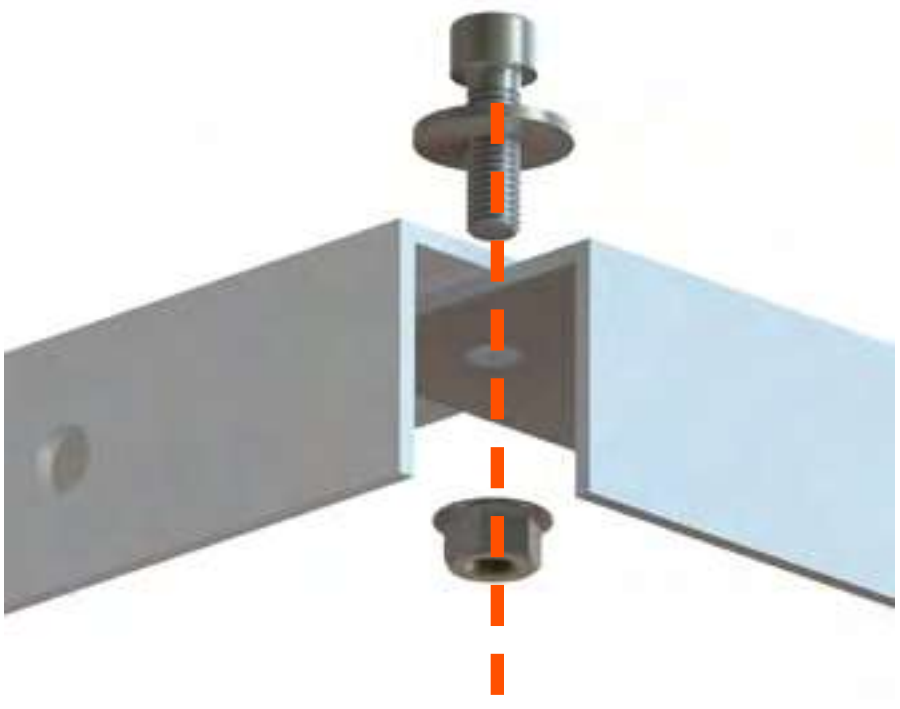
Place the Flat Piece so that it sits over holes A & C. Fix using a Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

Place the L Piece so that it sits over holes B & D. Fix using a Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

Fix the centre with a Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

M8 WASHER





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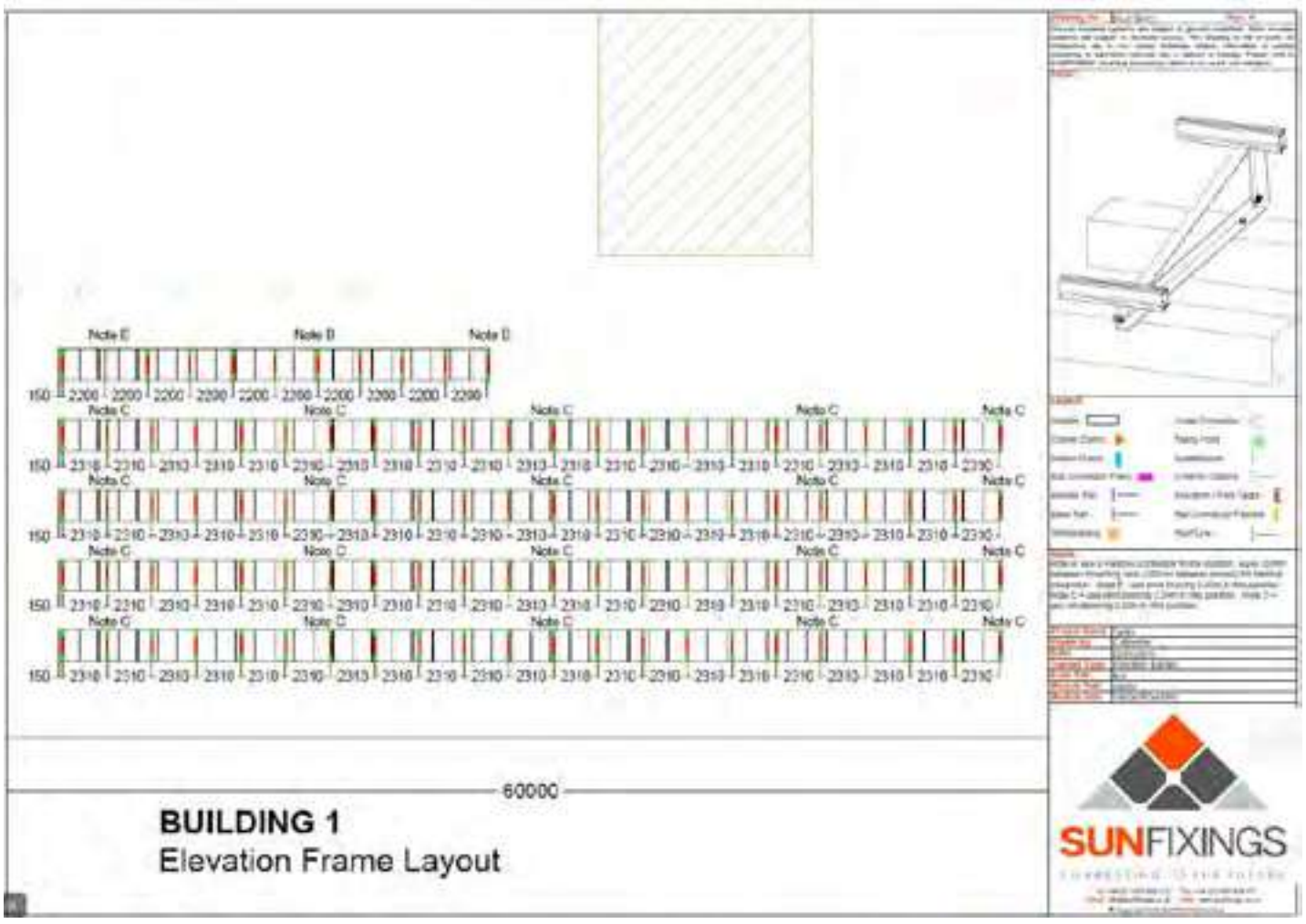
MOUNTING INSTRUCTIONS

LAYOUT

Use the layout for:
1. the position of the Elevation Frames
2. the distance between the Elevation Frames
3. the position of the Wind Bracing, if your project needs it
4. the position of Flexible Connectors, if your project needs them



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MOUNTING INSTRUCTIONS

BATTERY DRILL
NOT IMPACTOR

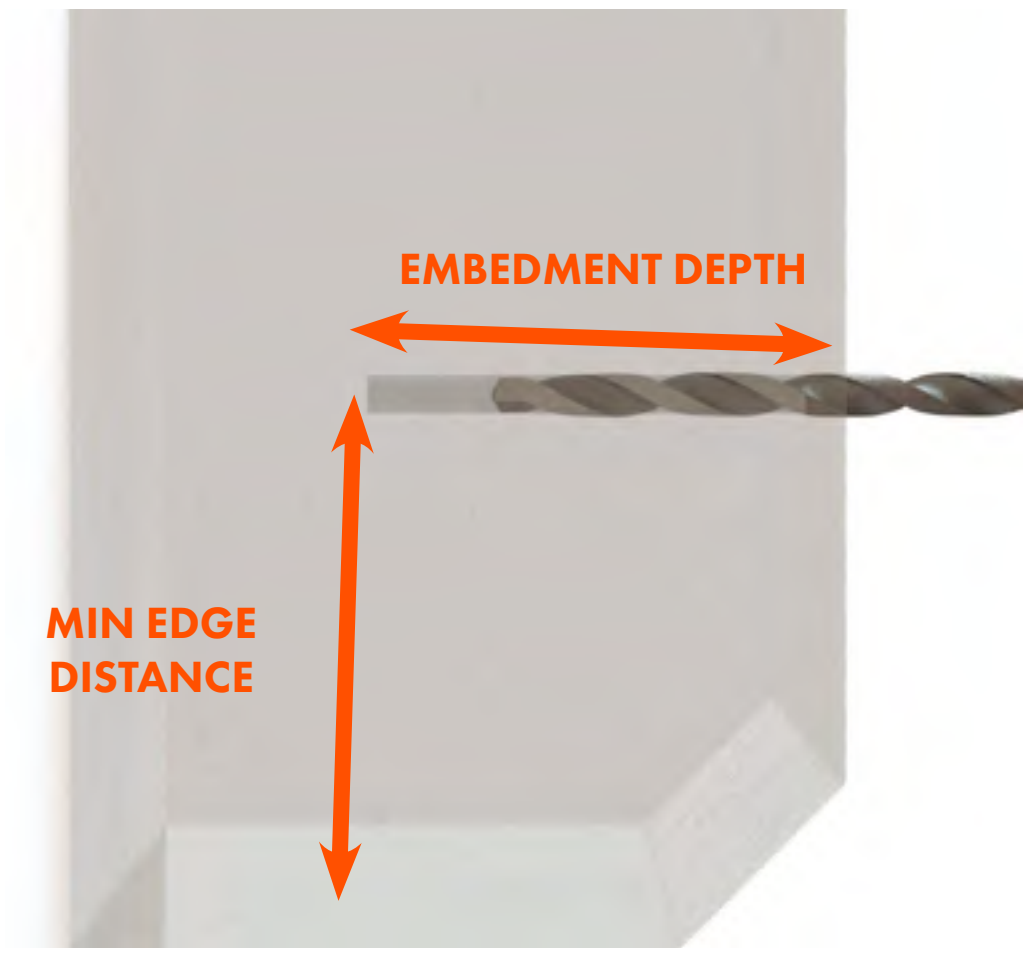
MASONRY DRILL
SEE TABLE FOR SIZES

CHEMICAL FIXING

Pre-drill the wall, see TABLE A for the dimensions.

Table A

Fixing Diameter Size	Embedment Depth	Min Edge Distance	Pre-Drill Hole
M10 Chemical Fixing	80 mm	45 mm	12 mm
M12 Chemical Fixing	95 mm	55 mm	14 mm



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MOUNTING INSTRUCTIONS

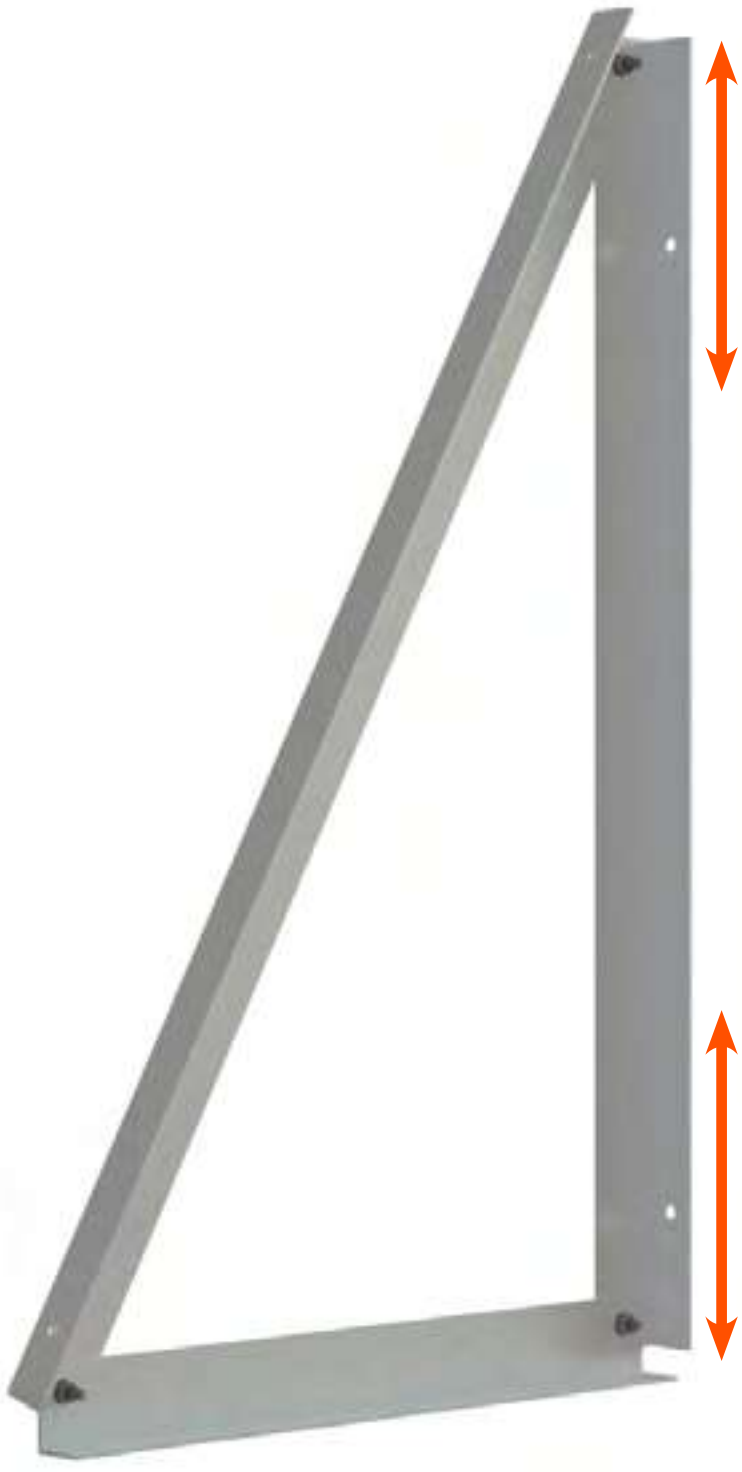
BATTERY DRILL
NOT IMPACTOR

HSS DRILL BIT
SEE TABLE FOR SIZE

ELEVATION FRAME

Table B	
Fixing Diameter Size	Pre-Drill Hole
M10 Chemical Fixing	11 mm
M12 Chemical Fixing	13 mm

Pre-drill the back of the Elevation Frame, please see TABLE B for the dimensions.



FIXING ZONE
50-150mm

FIXING ZONE
50-150mm

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MOUNTING INSTRUCTIONS

RESIN & APPLICATION TOOL

CHEMICAL FIXING

For Chemical Fixing follow the instructions on the Resin tube & Application Tool.

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MOUNTING INSTRUCTIONS

SPANNER
SEE TABLE FOR SIZES

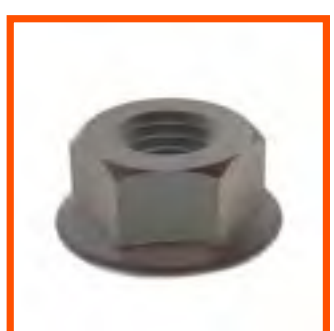
CHEMICAL FIXING

WASHER

ELEVATION FRAME

Tighten the fixing into the wall.
Use the Spanner sizes as shown below.

Fixing Diameter Size	Spanner Size
M10 Chemical Fixing	17 mm
M12 Chemical Fixing	19 mm



SERRATED NUT

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MOUNTING INSTRUCTIONS

SPANNER

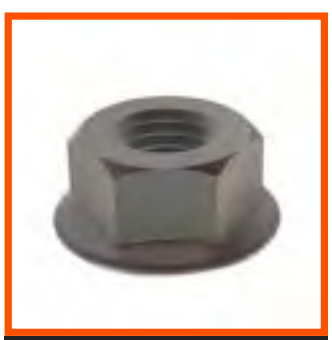
ALLEN KEY

WASHER

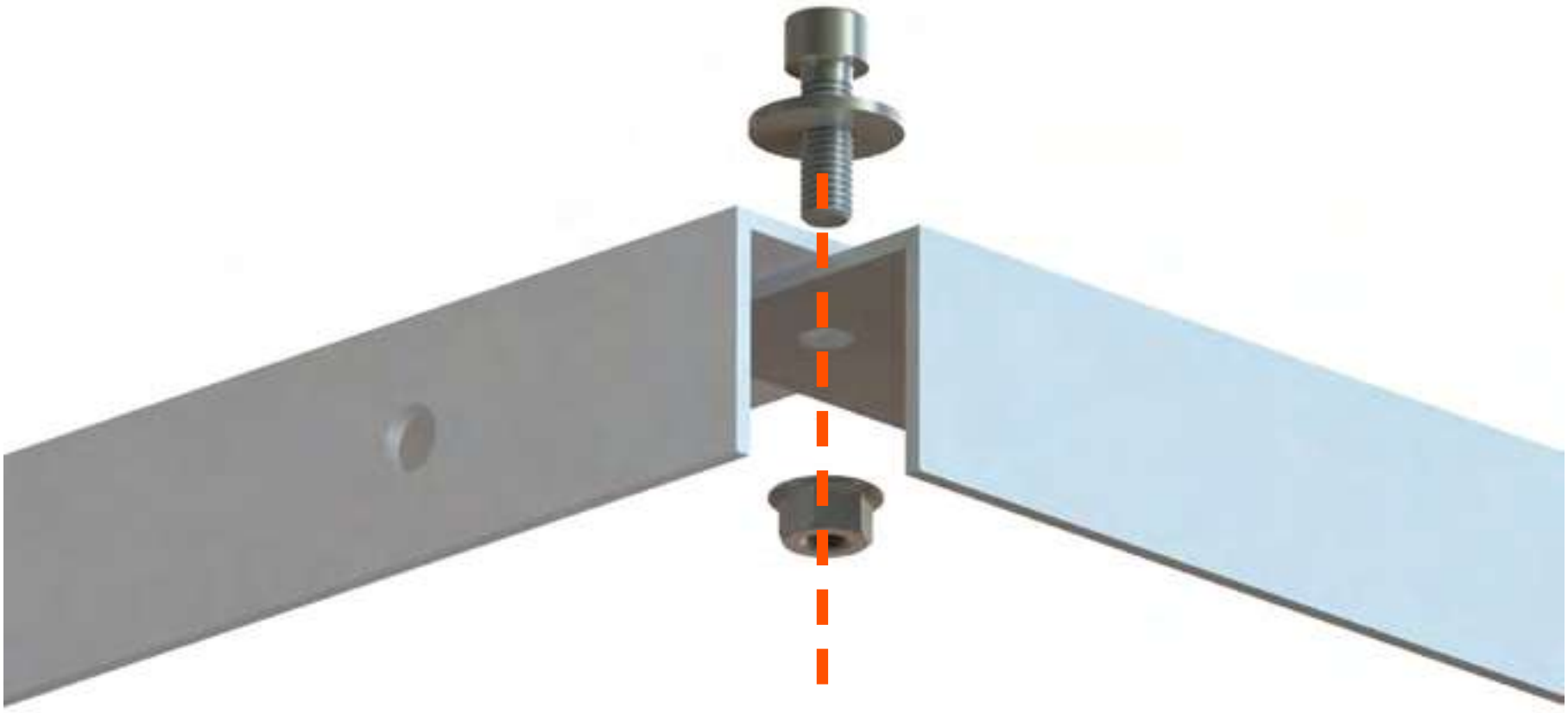
CYLINDER HEAD SCREW

Tighten the bolts and nuts of the Elevation Frame.

ELEVATION FRAME



M8 SERRATED NUT



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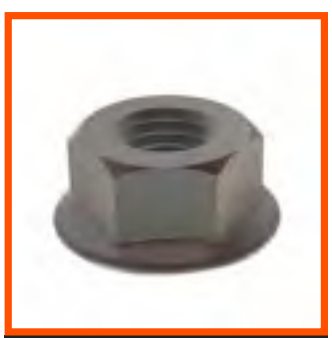
MOUNTING INSTRUCTIONS

SPANNER

MOUNTING RAIL

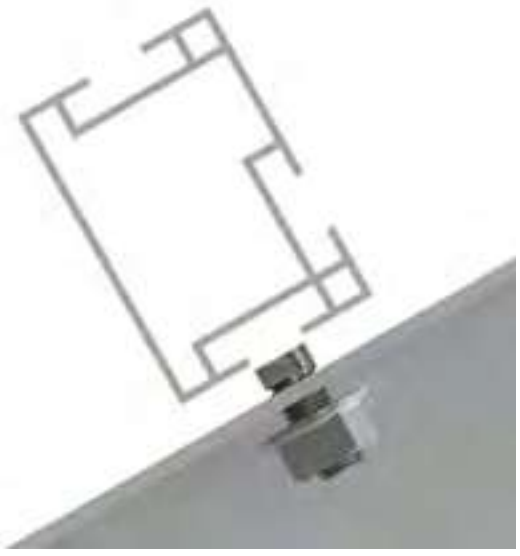
M10 T BOLT

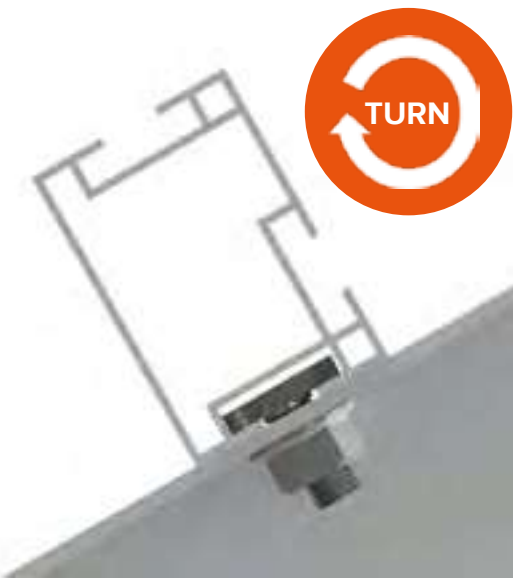


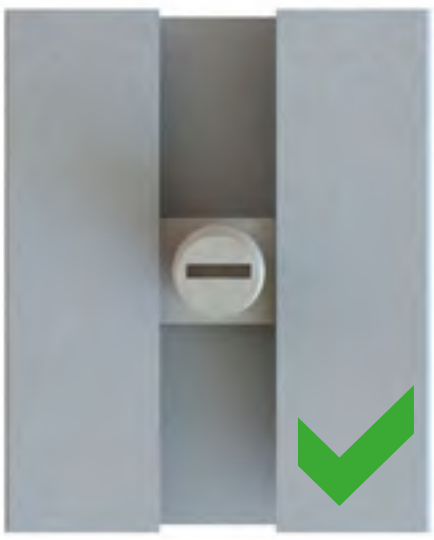
M10 SERRATED NUT

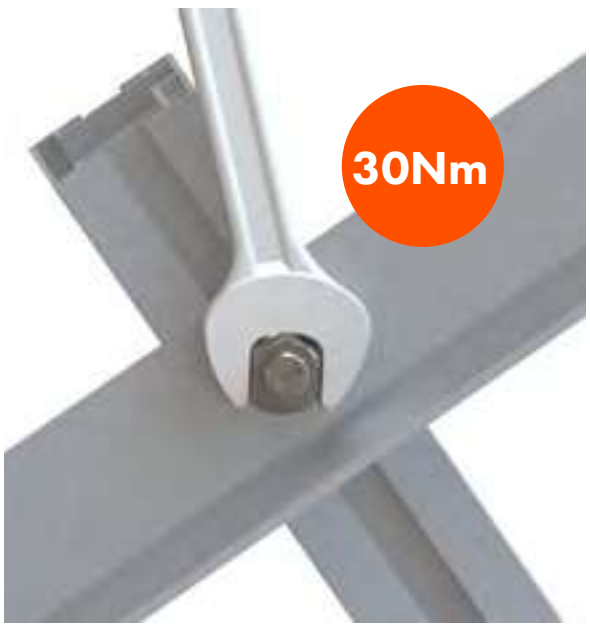
Attach the Mounting Rail.
There will already be holes in the top of the Elevation Frame for attaching the Mounting Rail.

ELEVATION FRAME









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MOUNTING INSTRUCTIONS

LAYOUT

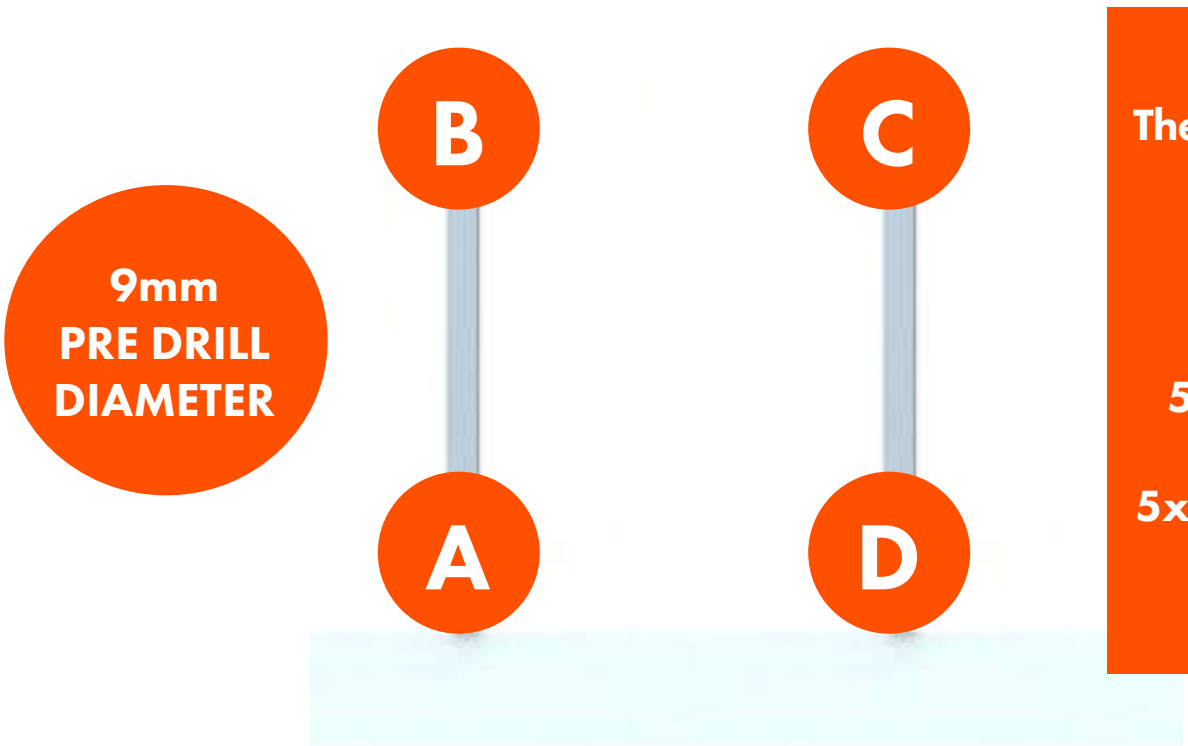
BATTERY DRILL NOT IMPACTOR

HSS DRILL BIT

WIND BRACING SET

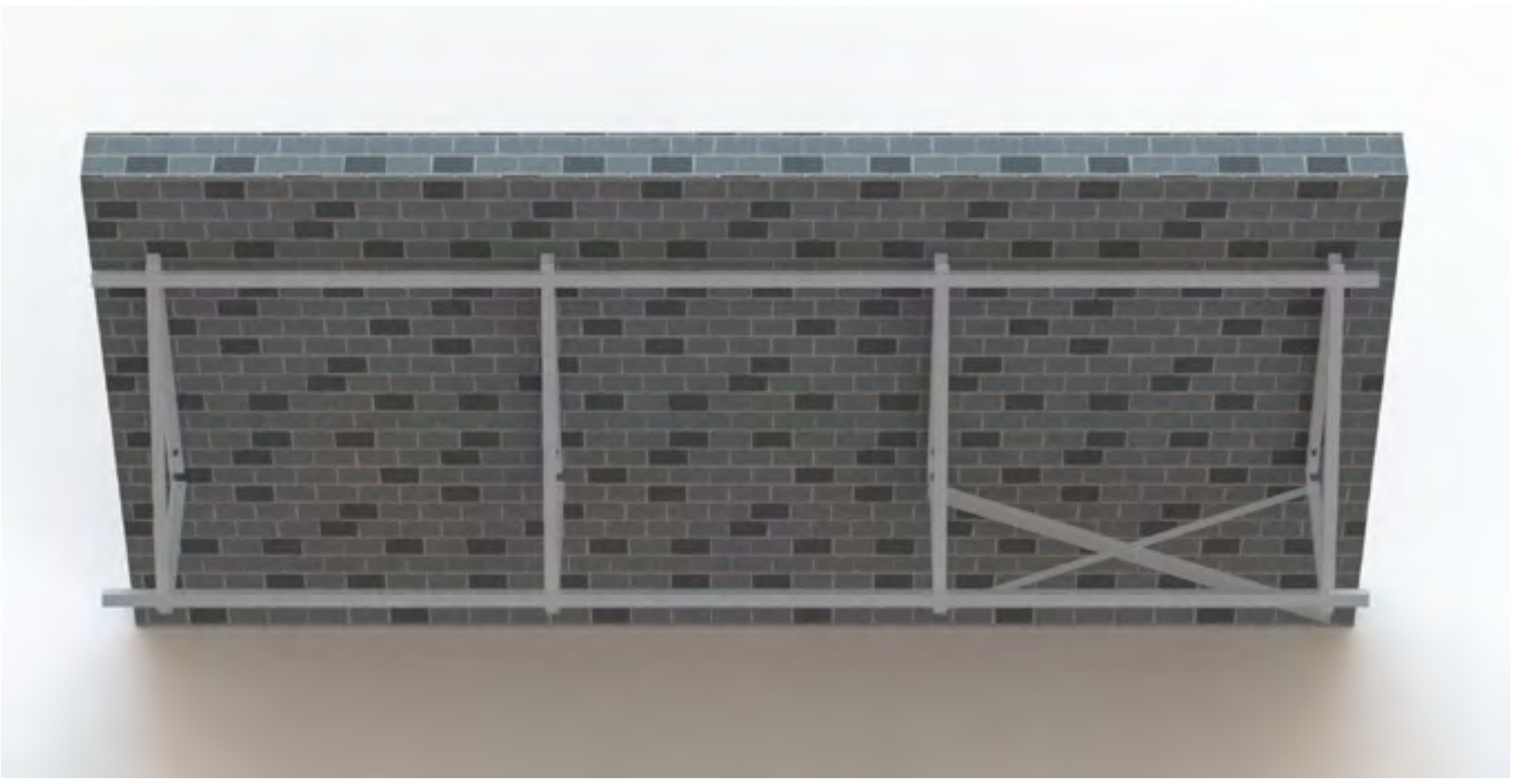
Pre-drill pilot holes for the Wind Bracing.
The layout will tell you where to position the Wind Bracing, if your project needs it.
You only need to pre-drill the back of the Elevation Frames as shown.
Pre-drill a pilot hole (9mm diameter) for each A, B, C & D positions.

ELEVATION FRAME



The Wind Bracing Set includes:

1x Flat Piece
1x L Piece
5x Cylinder Head Screws
5x M8 Serrated Nuts
5x M8 Washers



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MOUNTING INSTRUCTIONS

BATTERY DRILL
NOT IMPACTOR

HSS DRILL BIT

WIND BRACING SET

ELEVATION FRAME

Pre-drill a pilot hole (9mm diameter) into each end of the Flat Piece, so that they match holes A and C.
Pre-drill a pilot hole (9mm diameter) into each end of the L Piece, so that they match holes B and D.
Pre-drill a pilot hole (9mm diameter) into each end of the Flat Piece and L Piece, where they cross over in the middle.

9mm PRE DRILL DIAMETER

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MOUNTING INSTRUCTIONS

ALLEN KEY

SPANNER

WIND BRACING SET

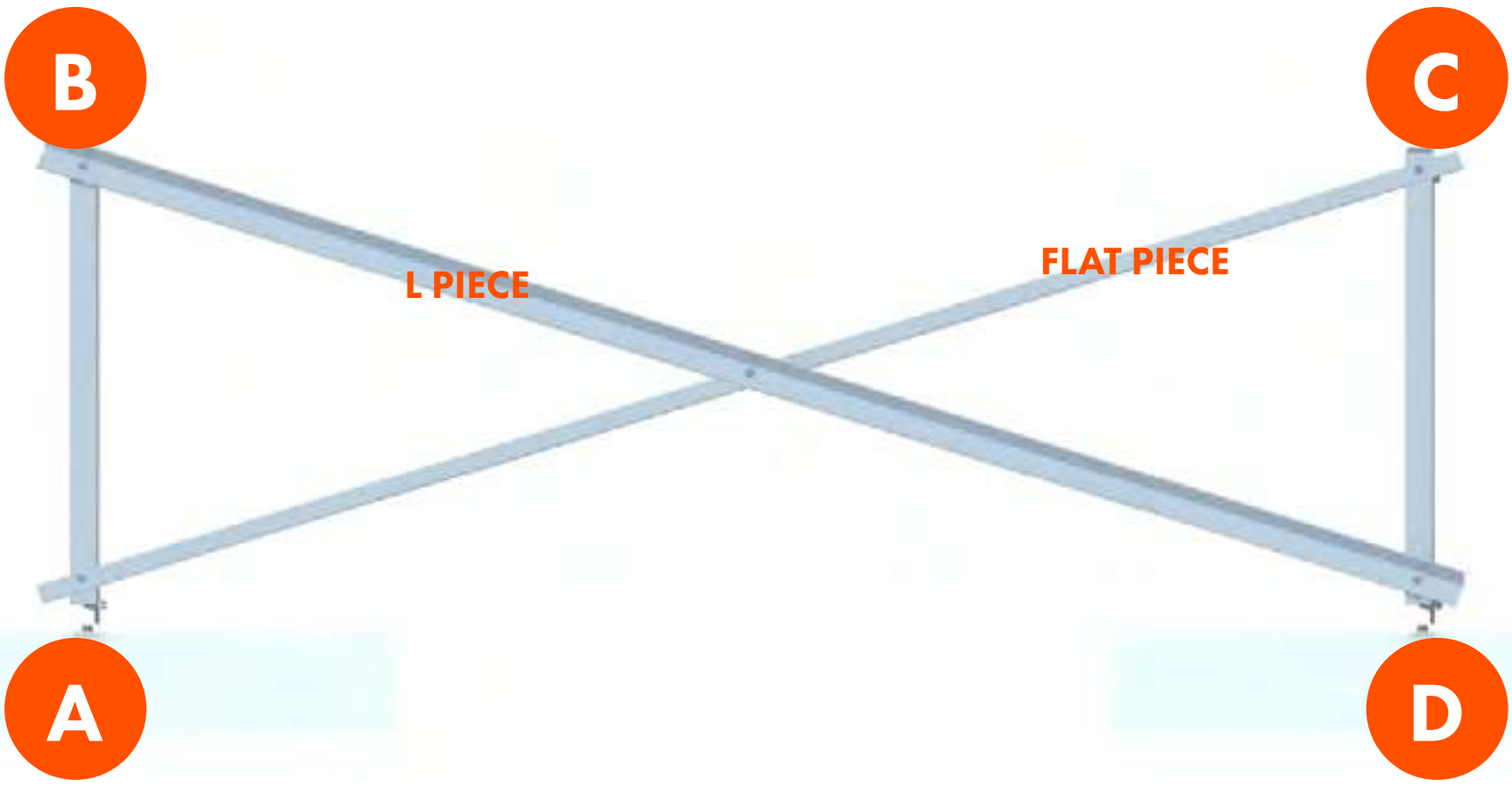
M8 SERRATED NUT

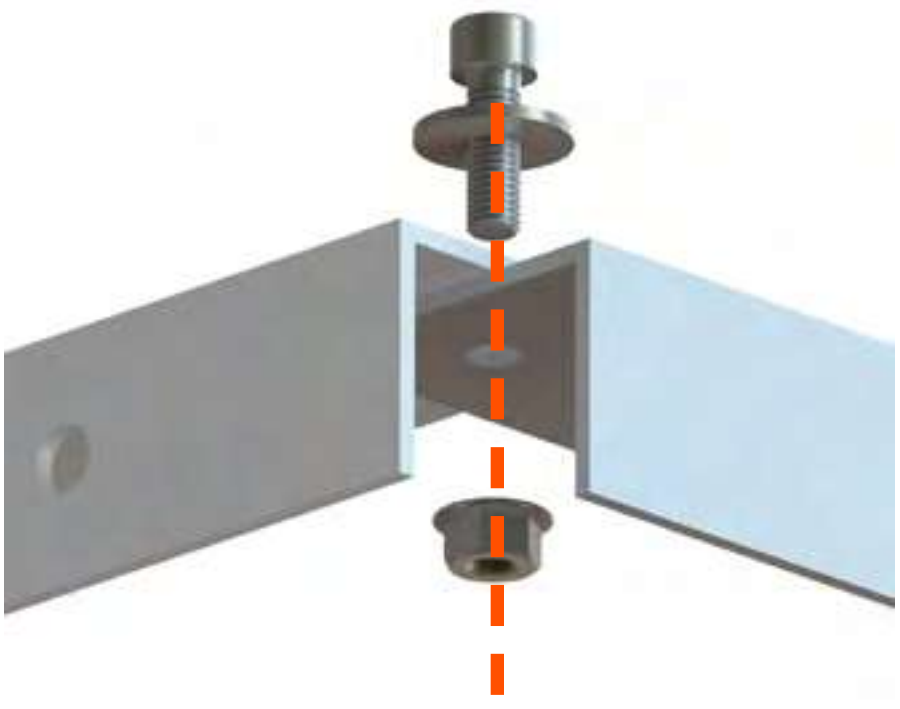
Place the Flat Piece so that it sits over holes A & C. Fix using a Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

Place the L Piece so that it sits over holes B & D. Fix using a Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

Fix the centre with a Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

M8 WASHER





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MOUNTING INSTRUCTIONS

LAYOUT

TAPE MEASURE

STRING LINE

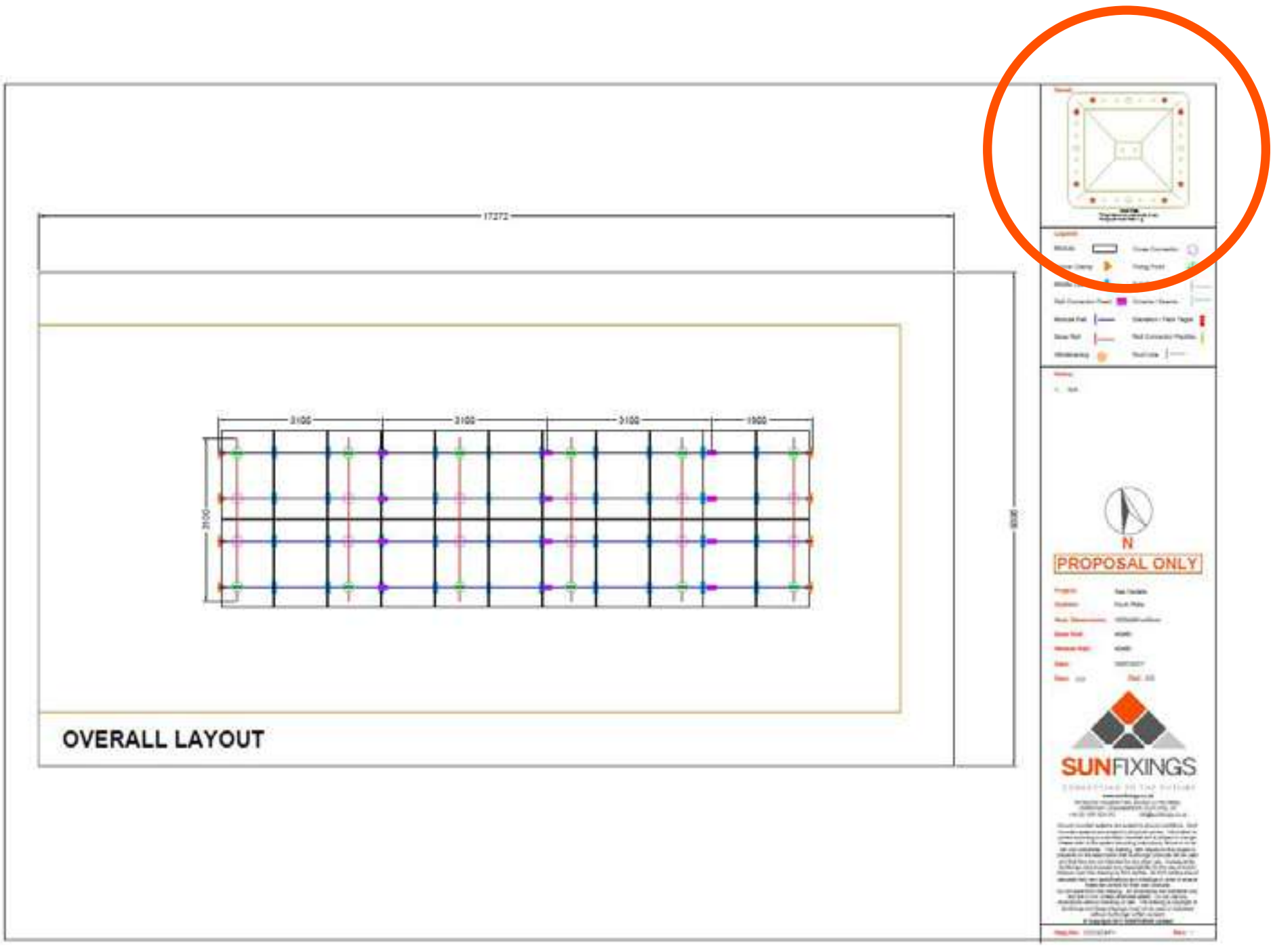
MARKER

Use the layout to confirm the position of the Hook Plates.

Mark on the roof the position of the fixing holes.

HOOK PLATE

FIXING HOLES



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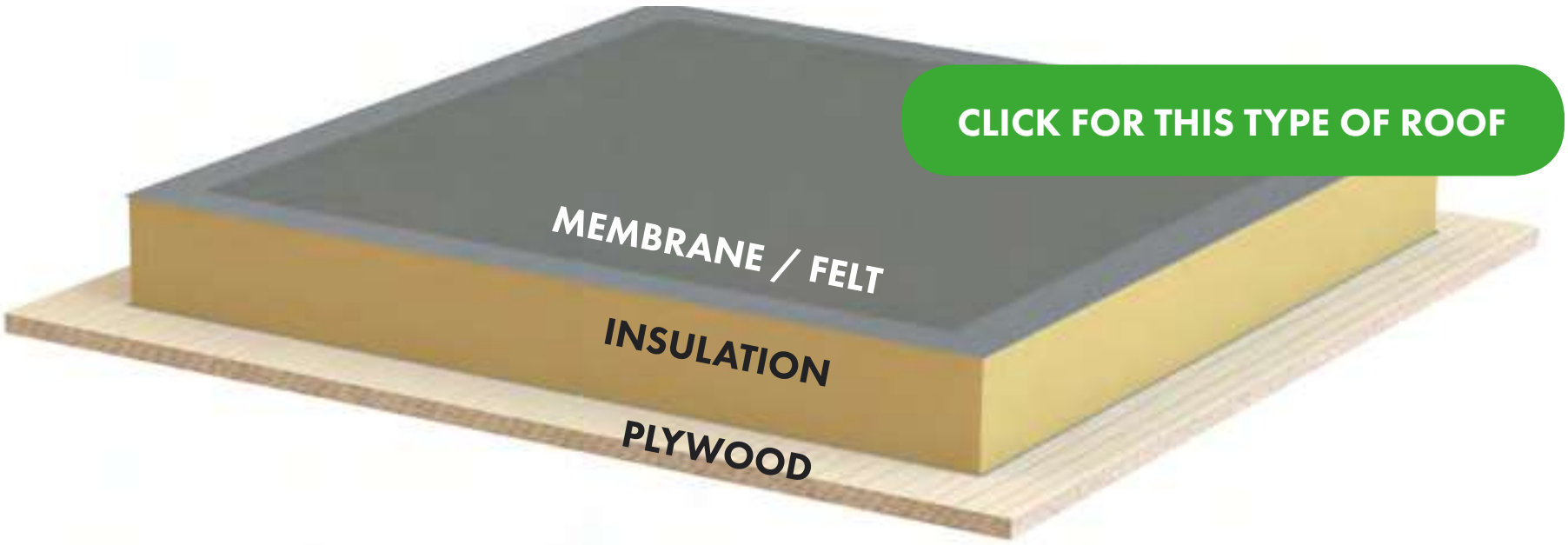
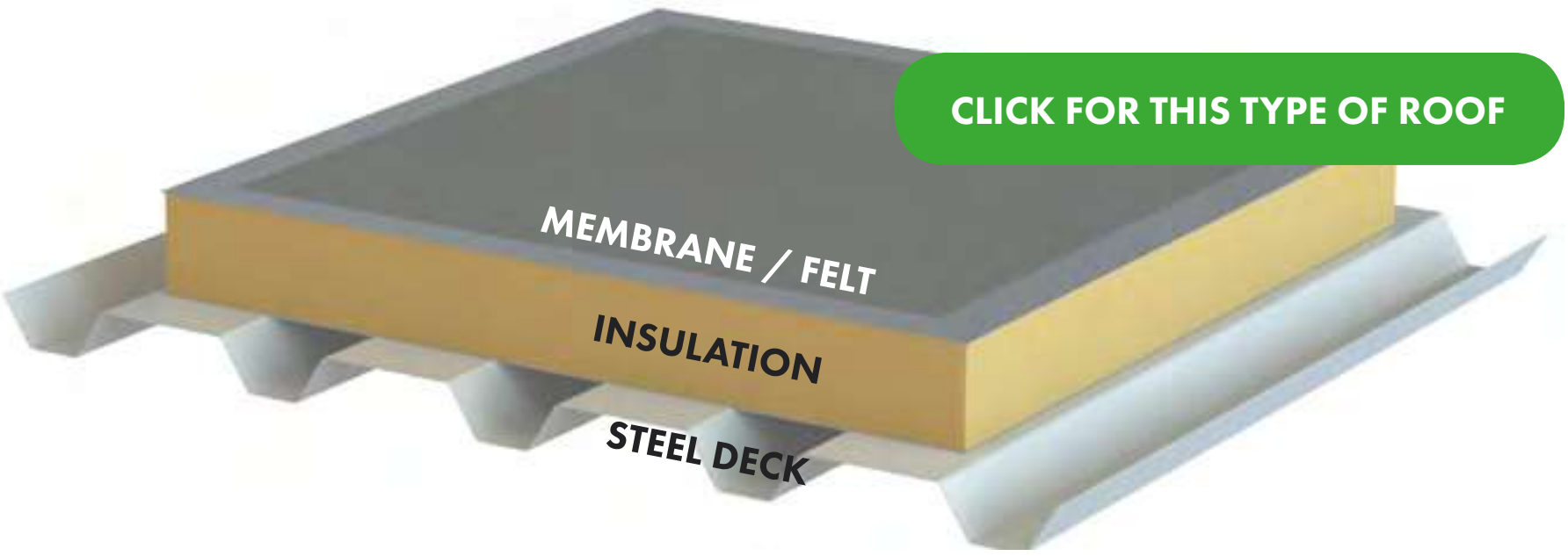
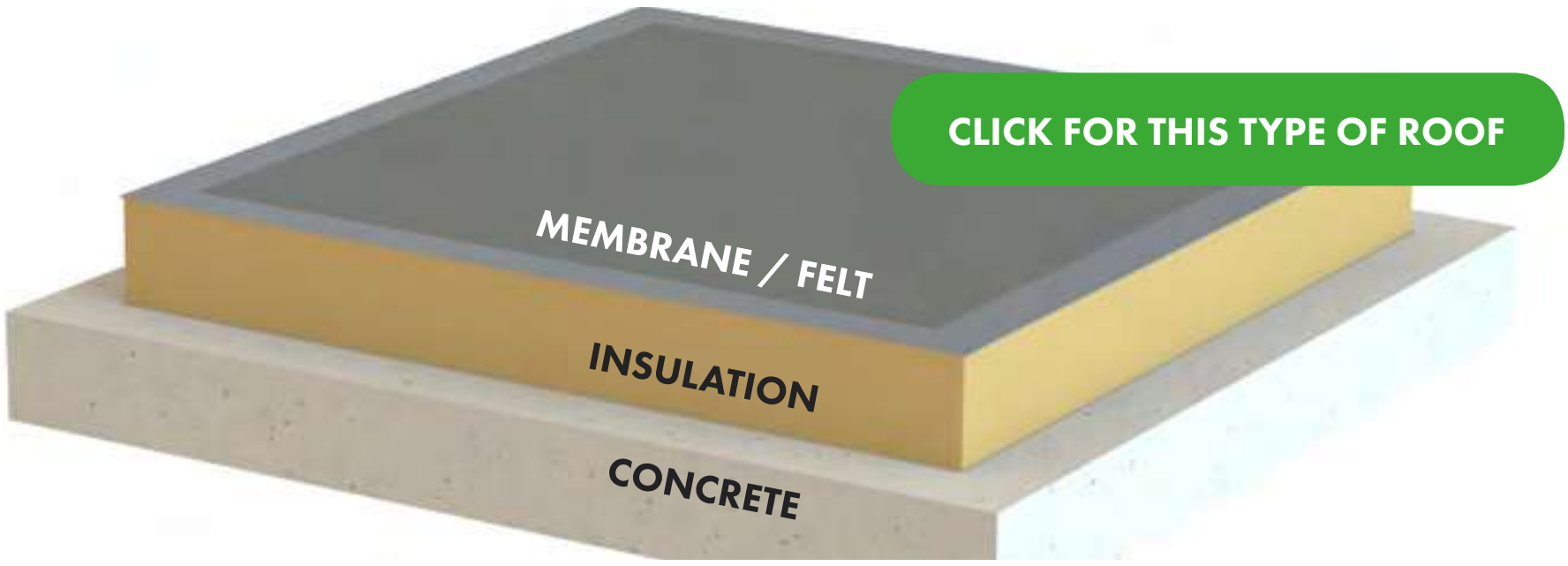
MOUNTING INSTRUCTIONS







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MOUNTING INSTRUCTIONS

LAYOUT

BATTERY DRILL
NOT IMPACTOR

SCREW BIT

FIXING SCREW

Connect the Hook Plate to the plywood of the roof.

Use the layout to confirm the position of the fixing holes in the Hook Plate.

HOOK PLATE

DO NOT OVERTIGHTEN THE FIXING SCREWS.
DO NOT USE IMPACTORS

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MOUNTING INSTRUCTIONS

LAYOUT

BATTERY DRILL NOT IMPACTOR

SCREW BIT

FIXING SCREW

Connect the Hook Plate to the roof through the insulation.

Use the layout to confirm the position of the fixing holes in the Hook Plate.

THERMAL TUBE

HOOK PLATE

DO NOT OVERTIGHTEN THE FIXING SCREWS.
DO NOT USE IMPACTORS

Pre-drill a pilot hole for concrete decks. Contact us for recommended diameter and depth dimenion.

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MOUNTING INSTRUCTIONS

A qualified Roofer needs to hot weld the additional roof covering to the existing roof to seal the Hook Plate.

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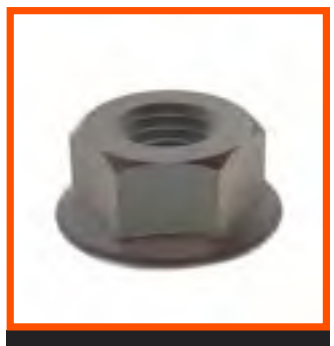
MOUNTING INSTRUCTIONS

SPANNER

MOUNTING RAIL

M10 T BOLT



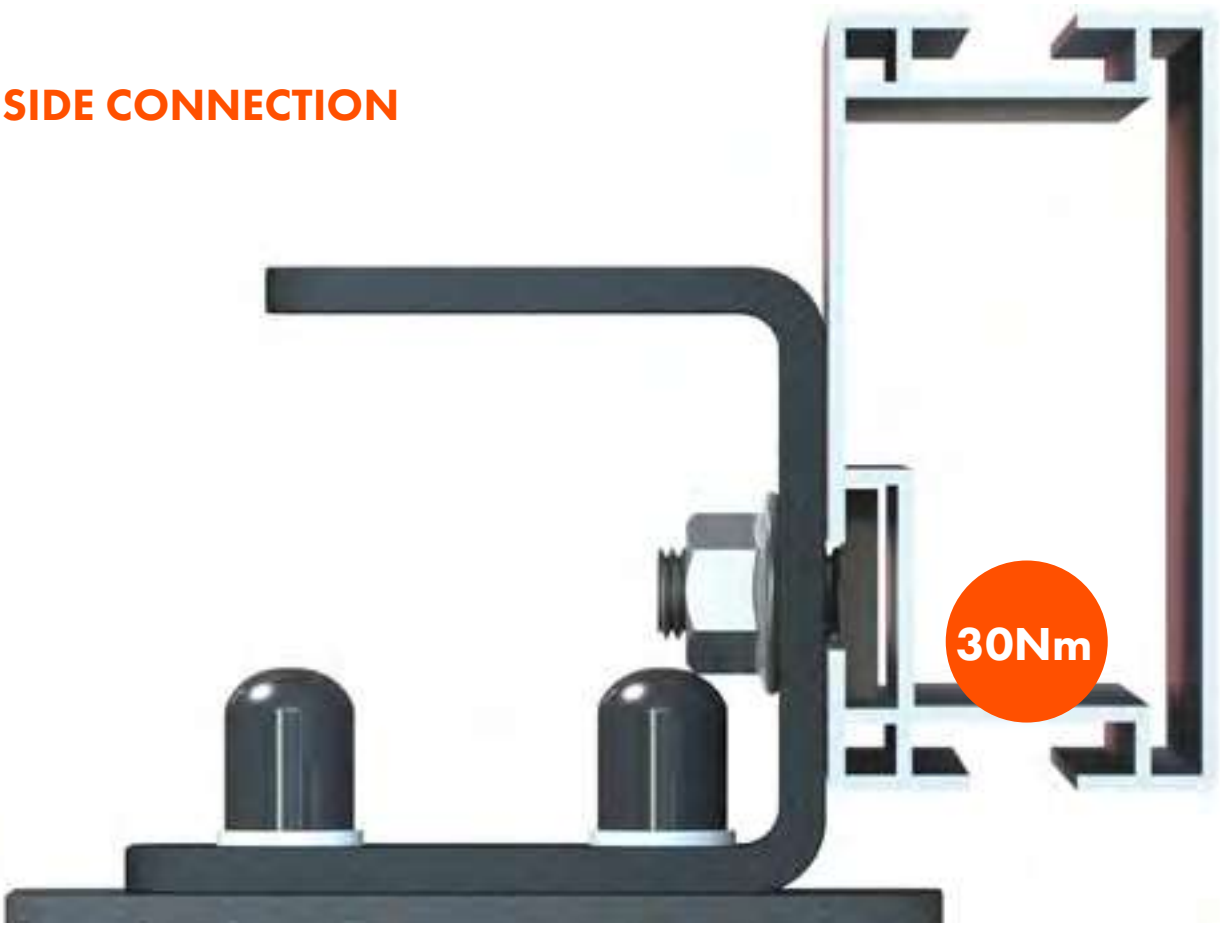
M10 SERRATED NUT

Connect the Mounting Rail to the Hook Plate.

HOOK PLATE

STANDARD CONNECTION

SIDE CONNECTION



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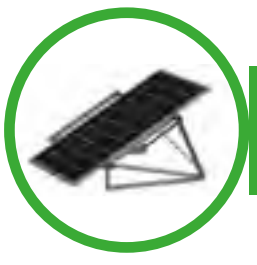

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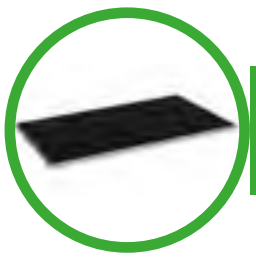

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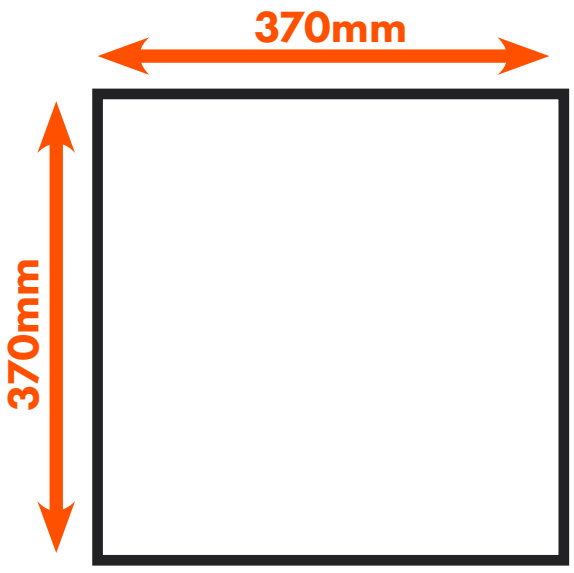
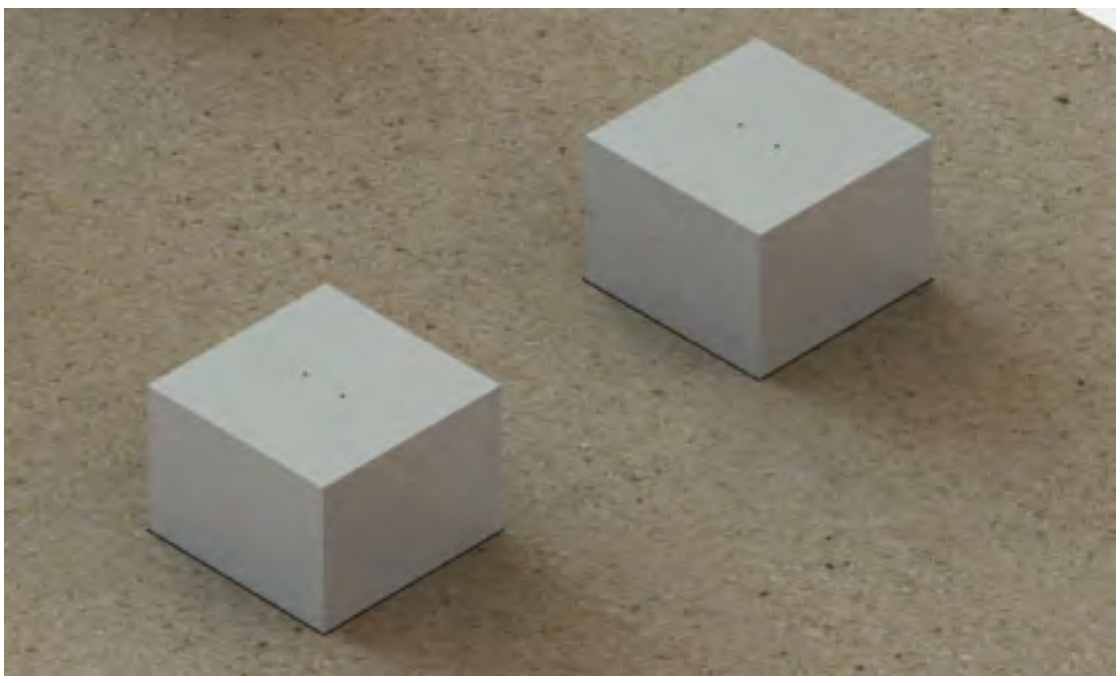
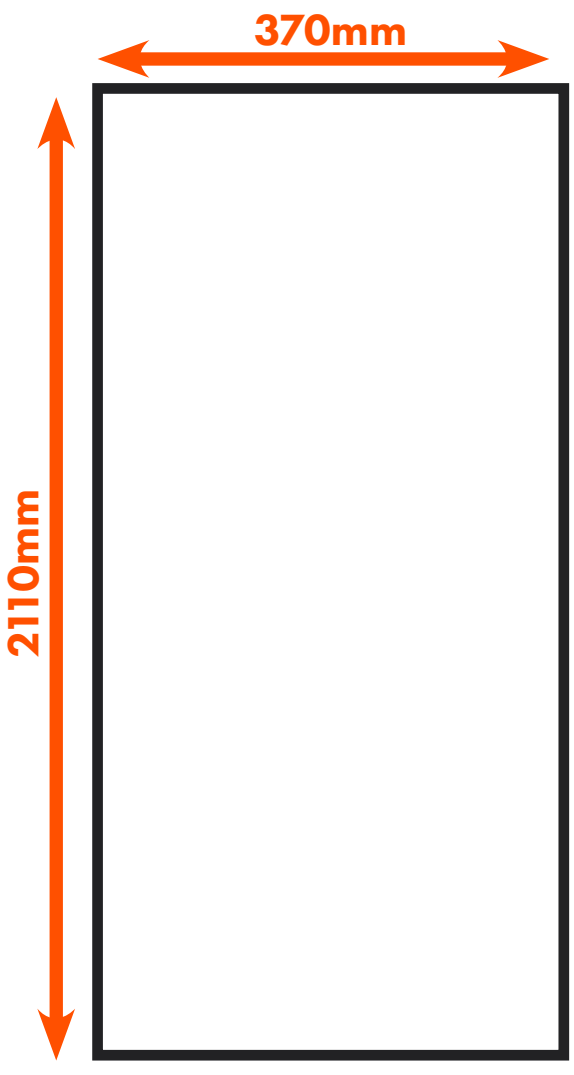
MOUNTING INSTRUCTIONS





Types of ballast that can be used.



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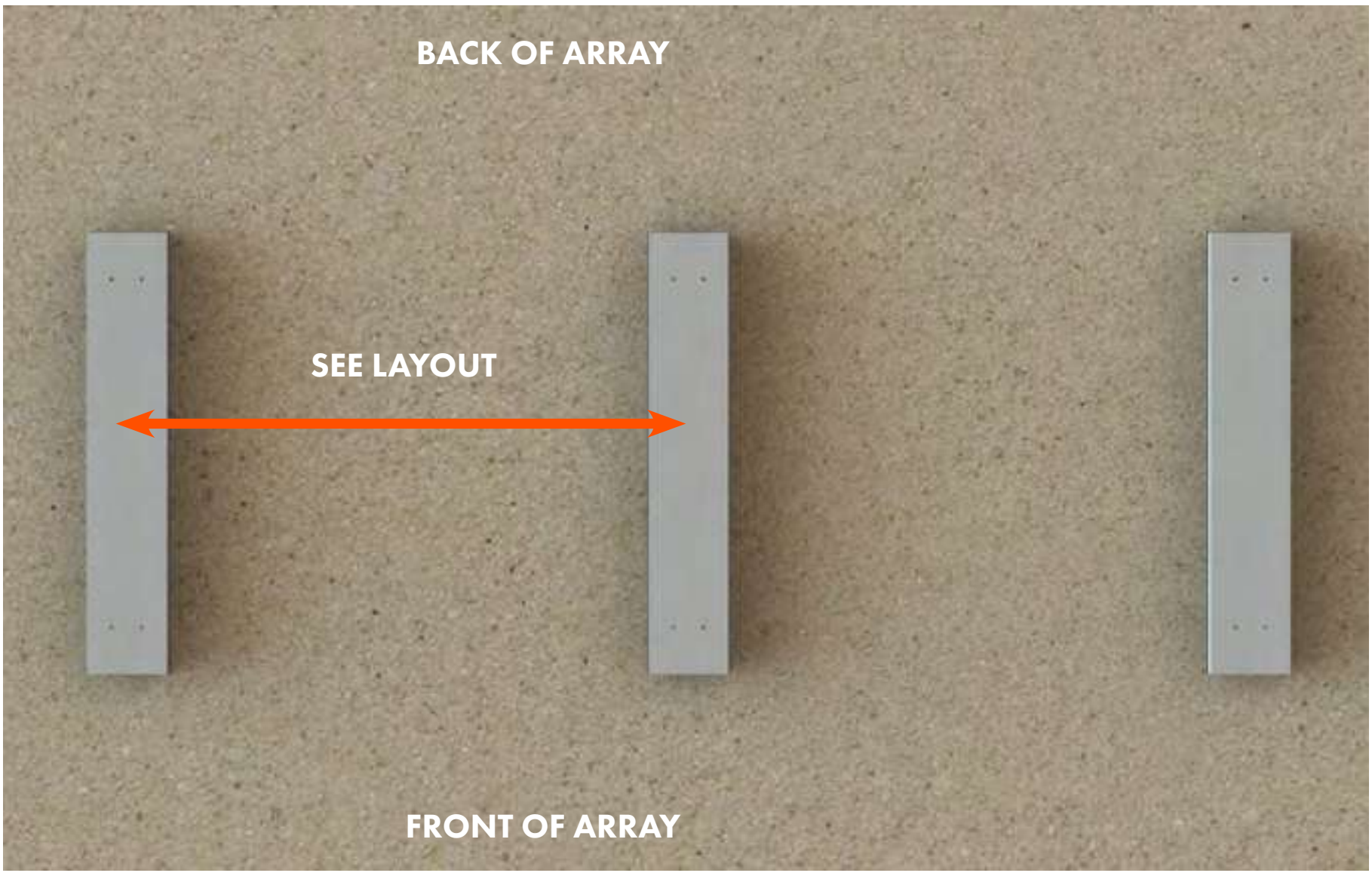
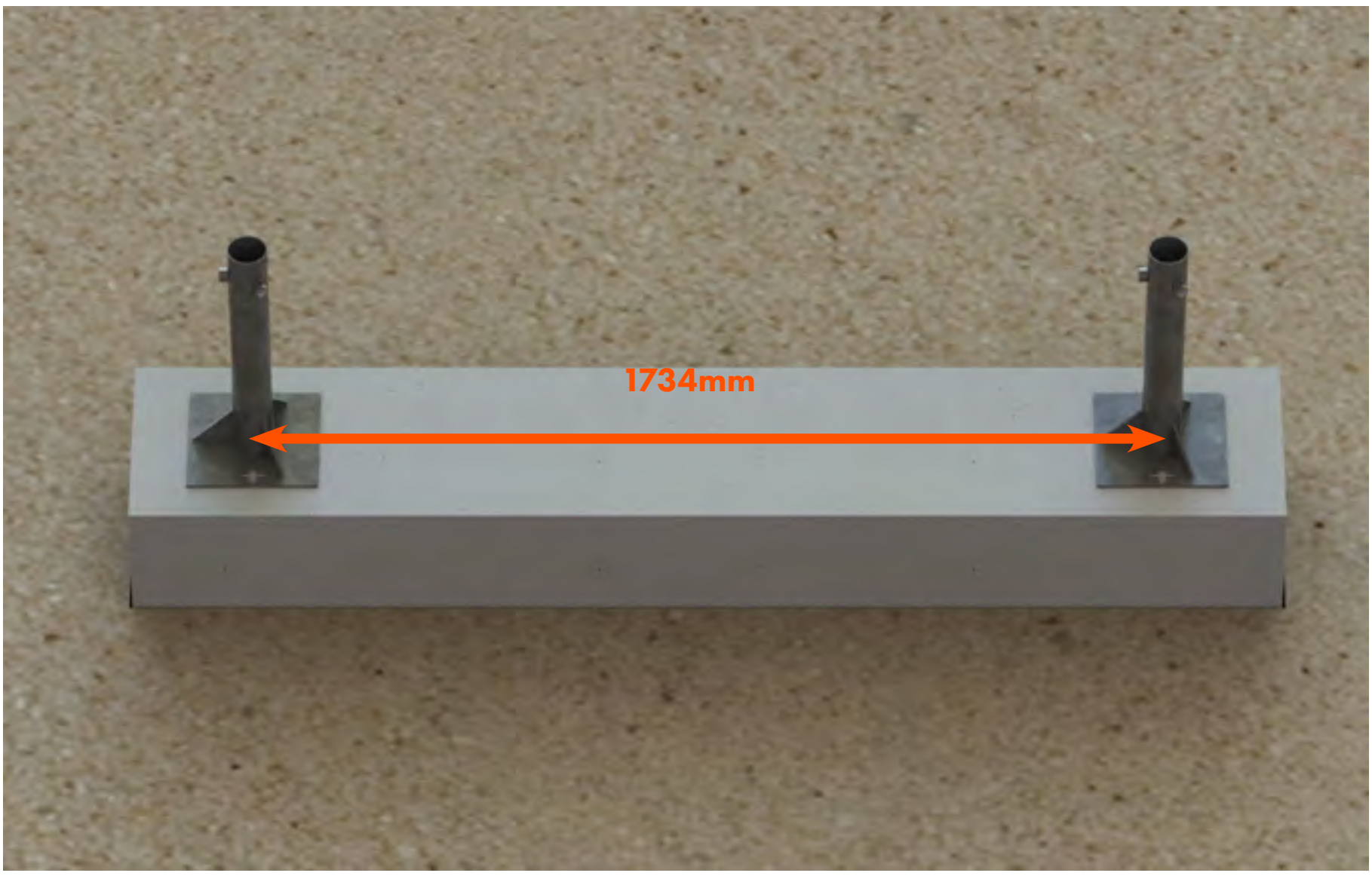
MOUNTING INSTRUCTIONS

Use the layout to mark out the position of the ballast.

LAYOUT

ADJUSTABLE FOOT





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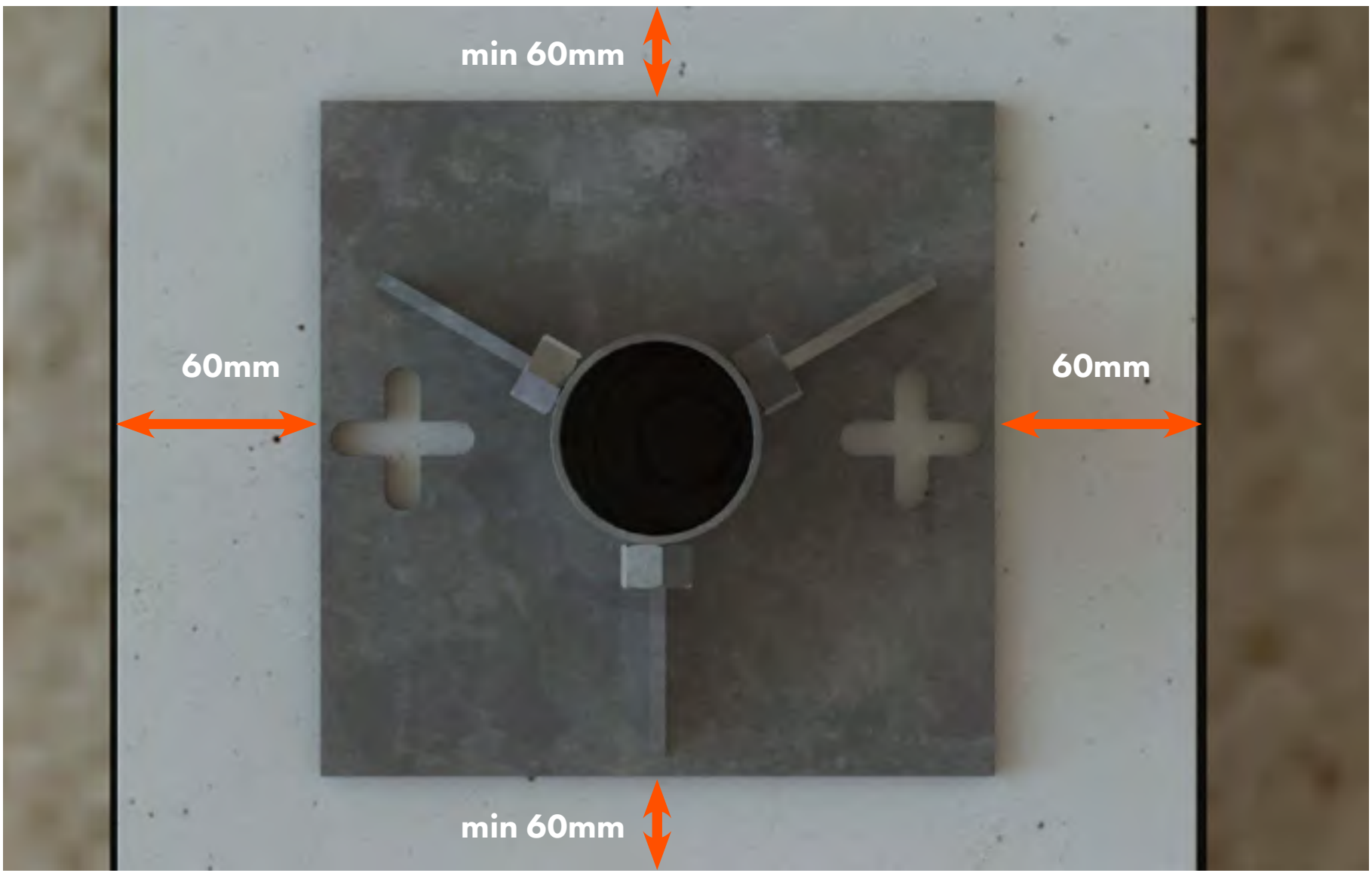
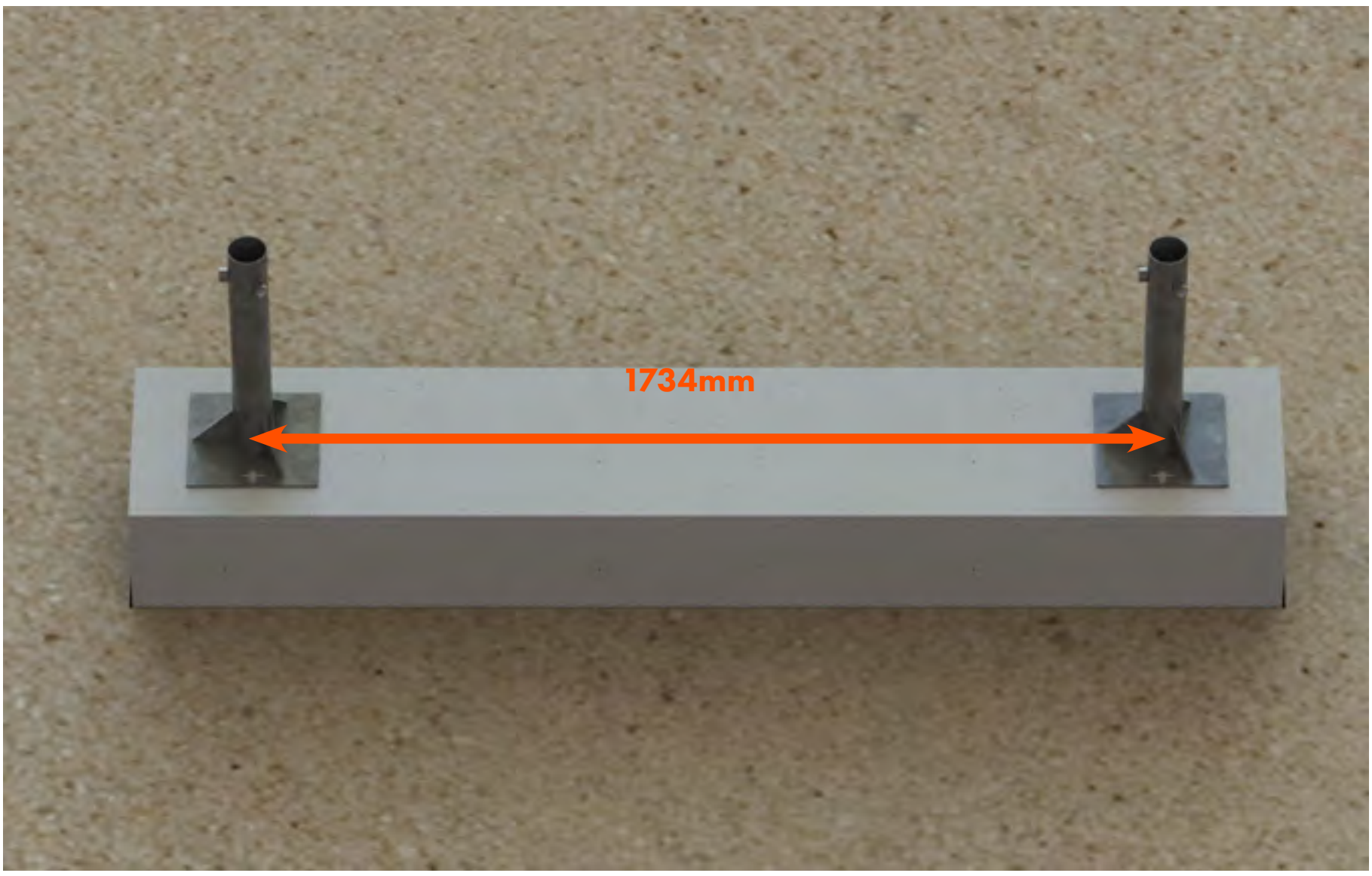
MOUNTING INSTRUCTIONS

Use the layout to mark out the position of the ballast.

LAYOUT

ADJUSTABLE FOOT





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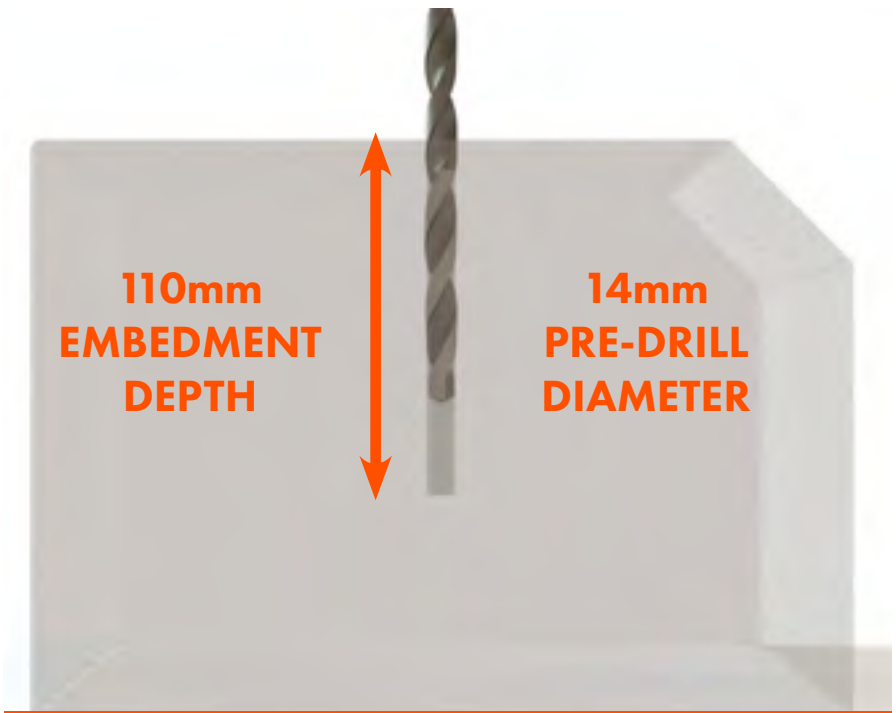
MOUNTING INSTRUCTIONS

BATTERY DRILL

MASONRY DRILL BIT

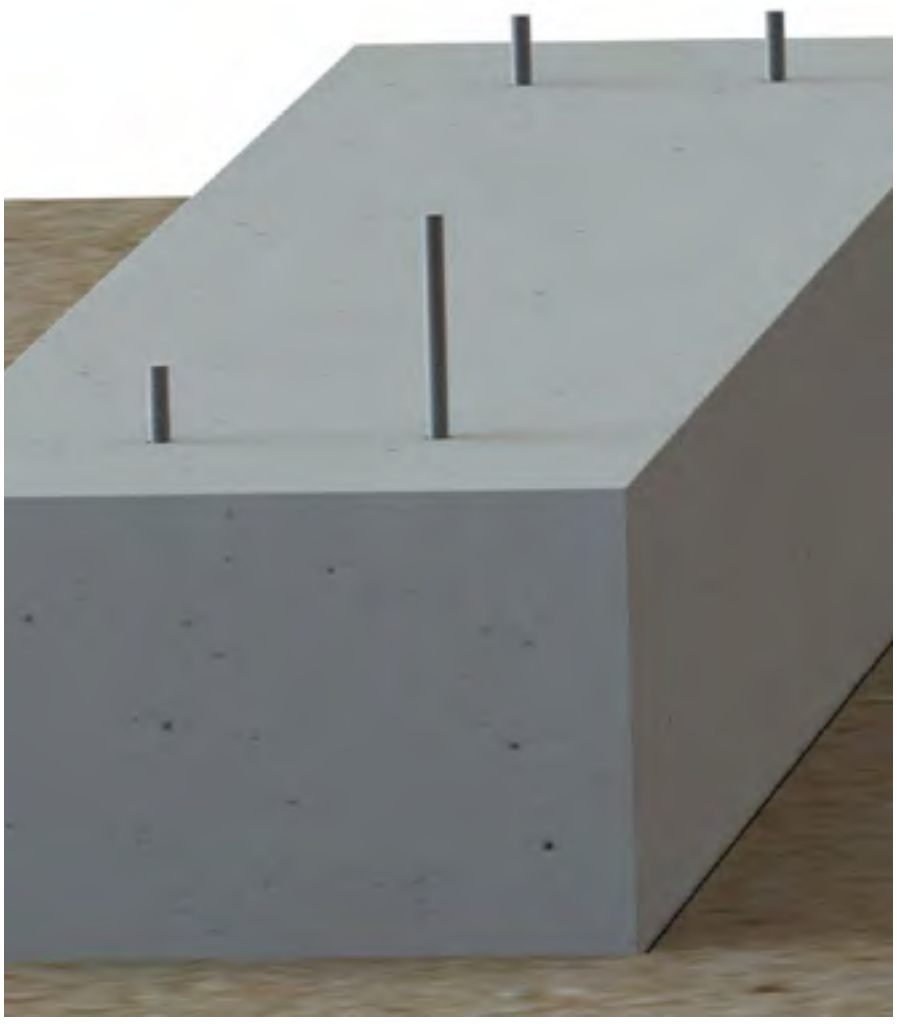
CHEMICAL FIXING

RESIN & APPLICATION TOOL



Pre-drill the concrete ballast and install the Chemical Fixing.

Follow the instructions on the Resin tube and Application Tool.



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MOUNTING INSTRUCTIONS

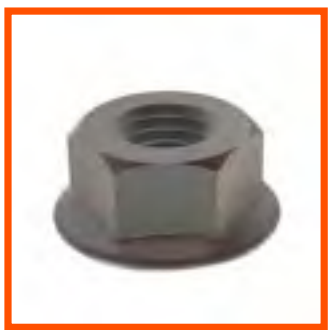
SPANNER

ADJUSTABLE FOOT

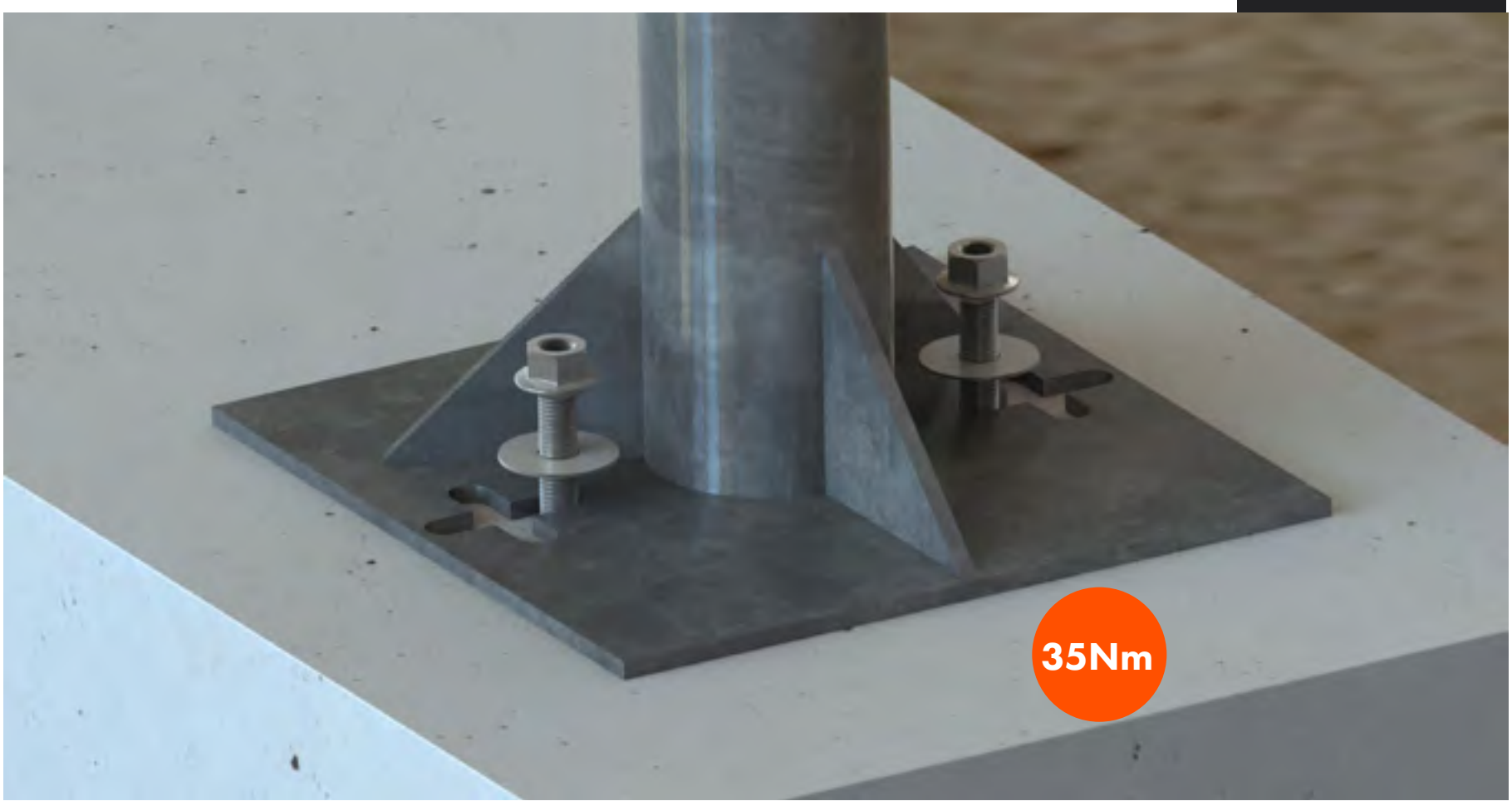
CHEMICAL FIXING

M12 WASHER

Fix the Adjustable Foot to the ballast.



M12 SERRATED NUT



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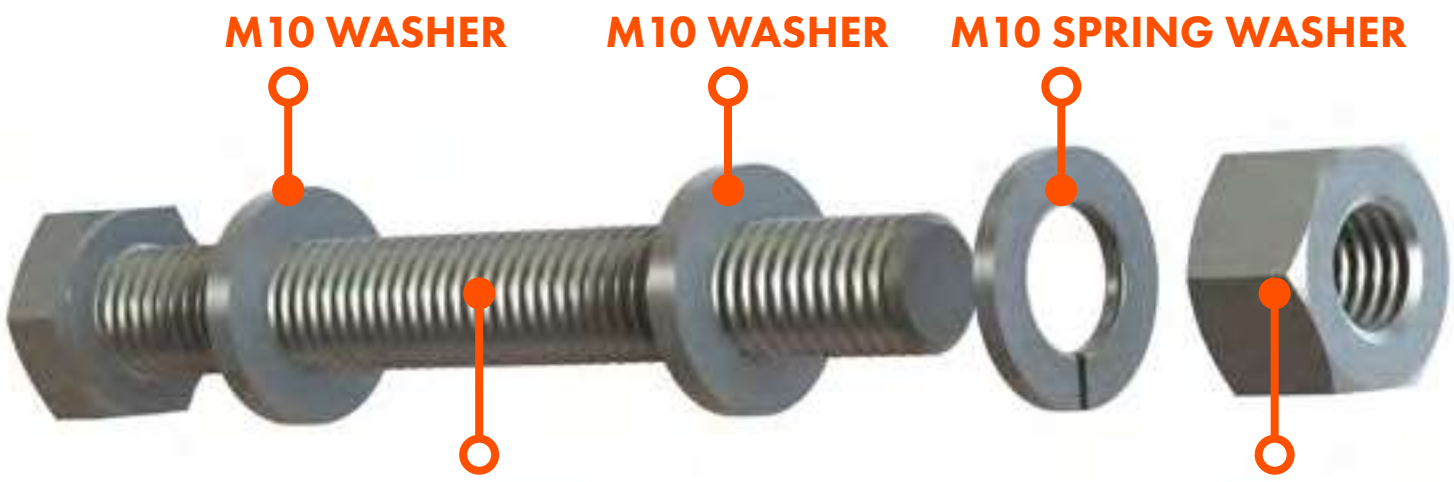
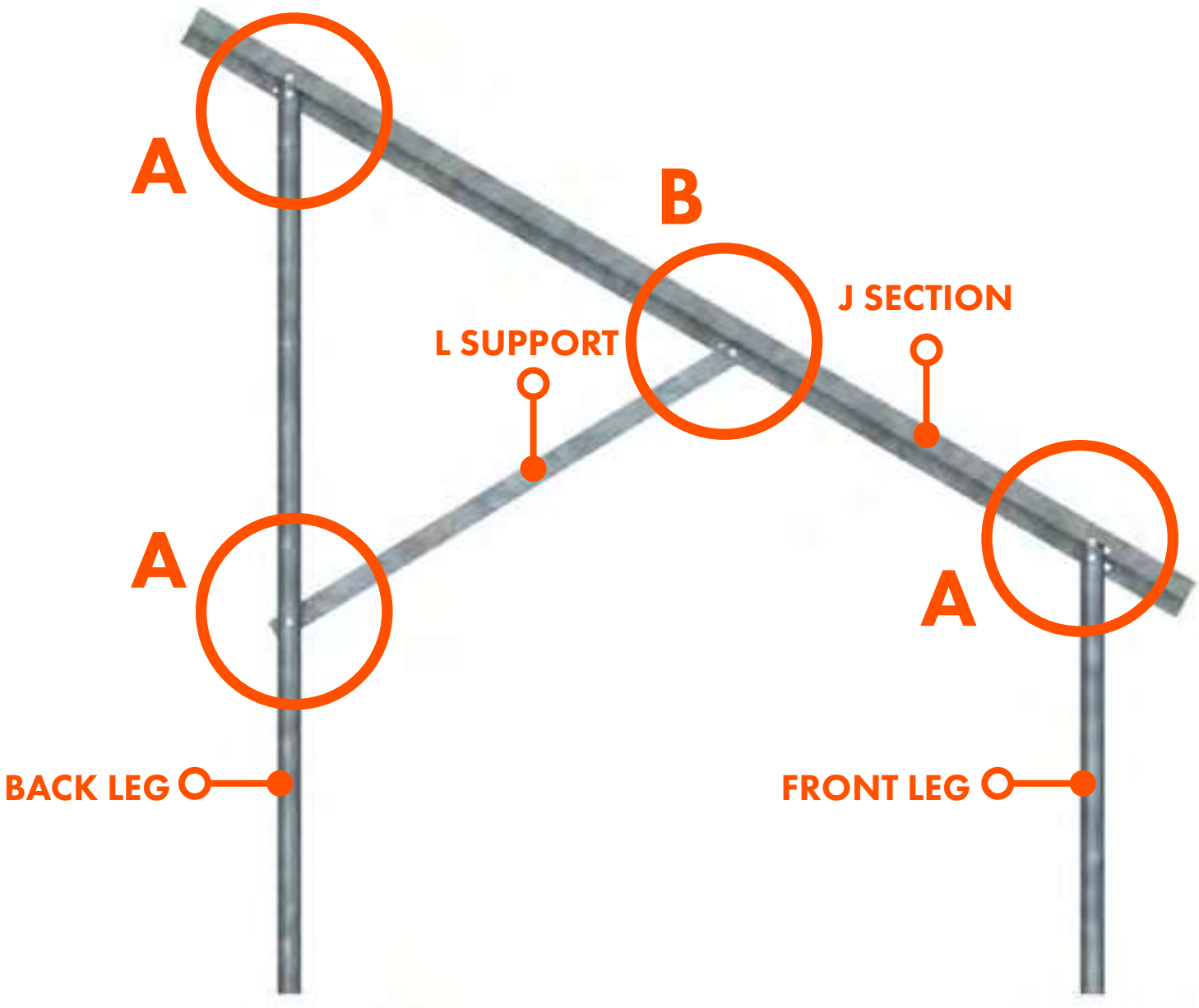
A

B





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MOUNTING INSTRUCTIONS

SOCKET WRENCH

35Nm

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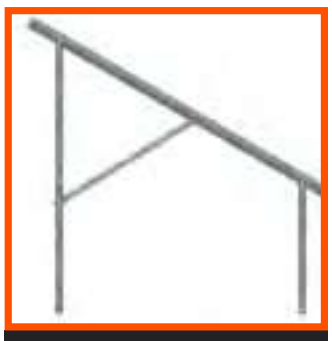
MOUNTING INSTRUCTIONS

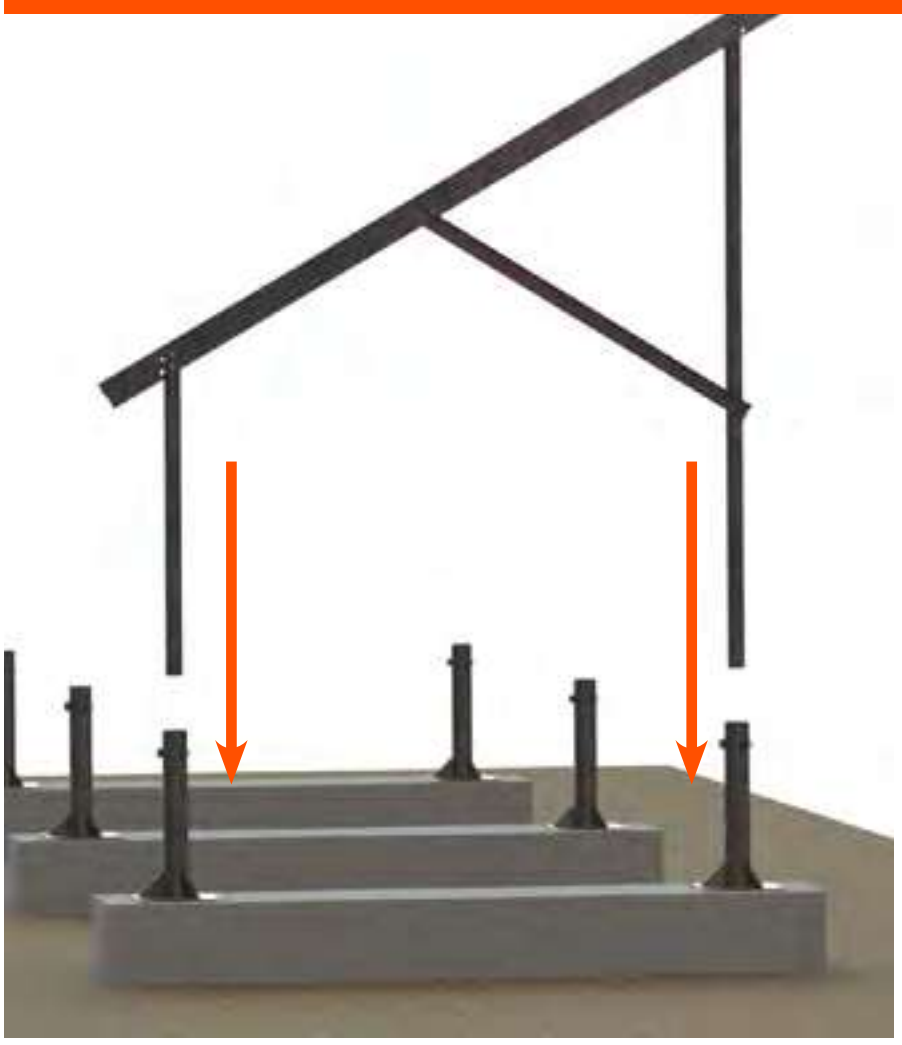
SOCKET WRENCH

ADJUSTABLE FOOT



PARK TEGRA FRAME

Galvanised spray is provided for any scratches made into any of the steel items. Follow the instructions on the spray.



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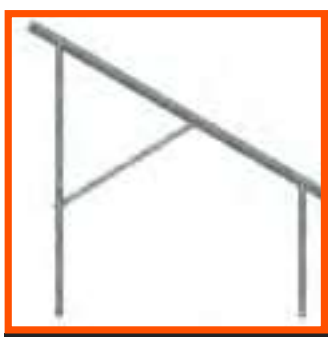
MOUNTING INSTRUCTIONS

SPANNER

M10 T BOLT

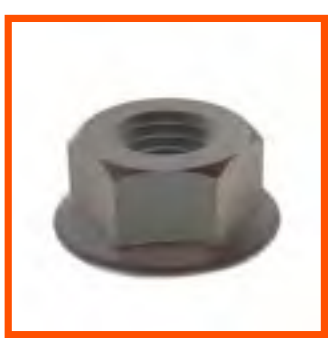
PENNY WASHER



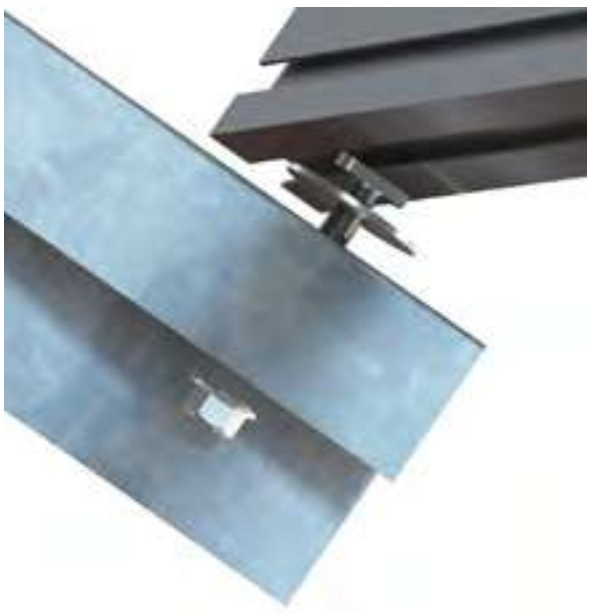
PARK TEGRA FRAME

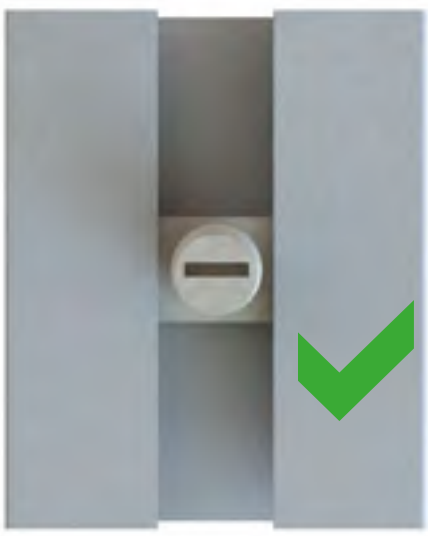
Attach the Mounting Rail to the Park Tegra Frame.

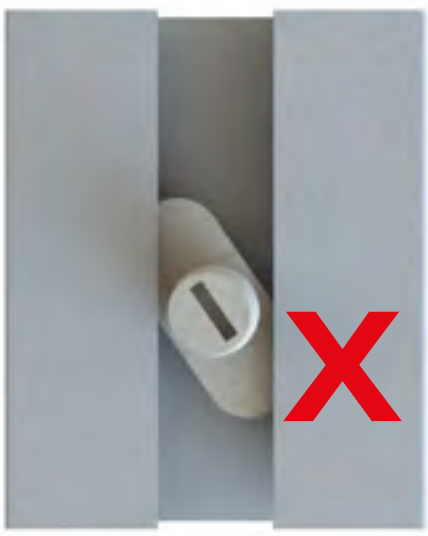
M10 SERRATED NUT

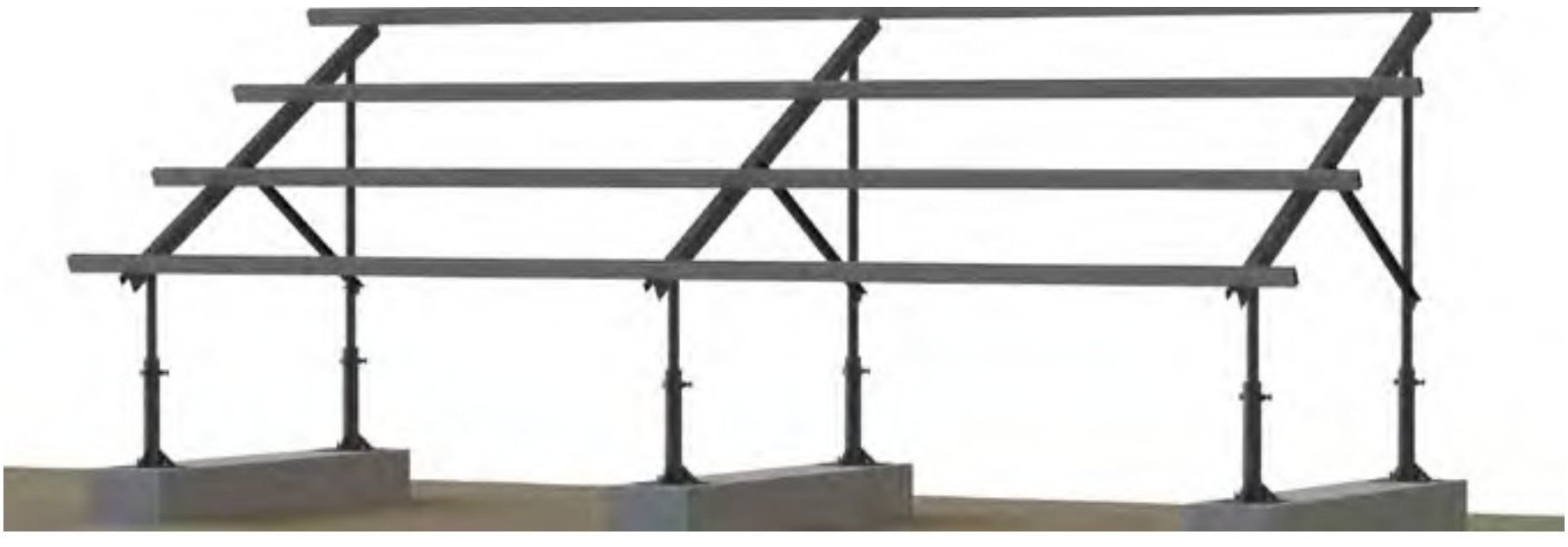


M10 SERRATED NUT









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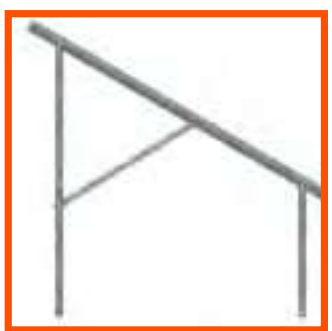
MOUNTING INSTRUCTIONS

SPANNER

LAYOUT

TURNBUCKLE

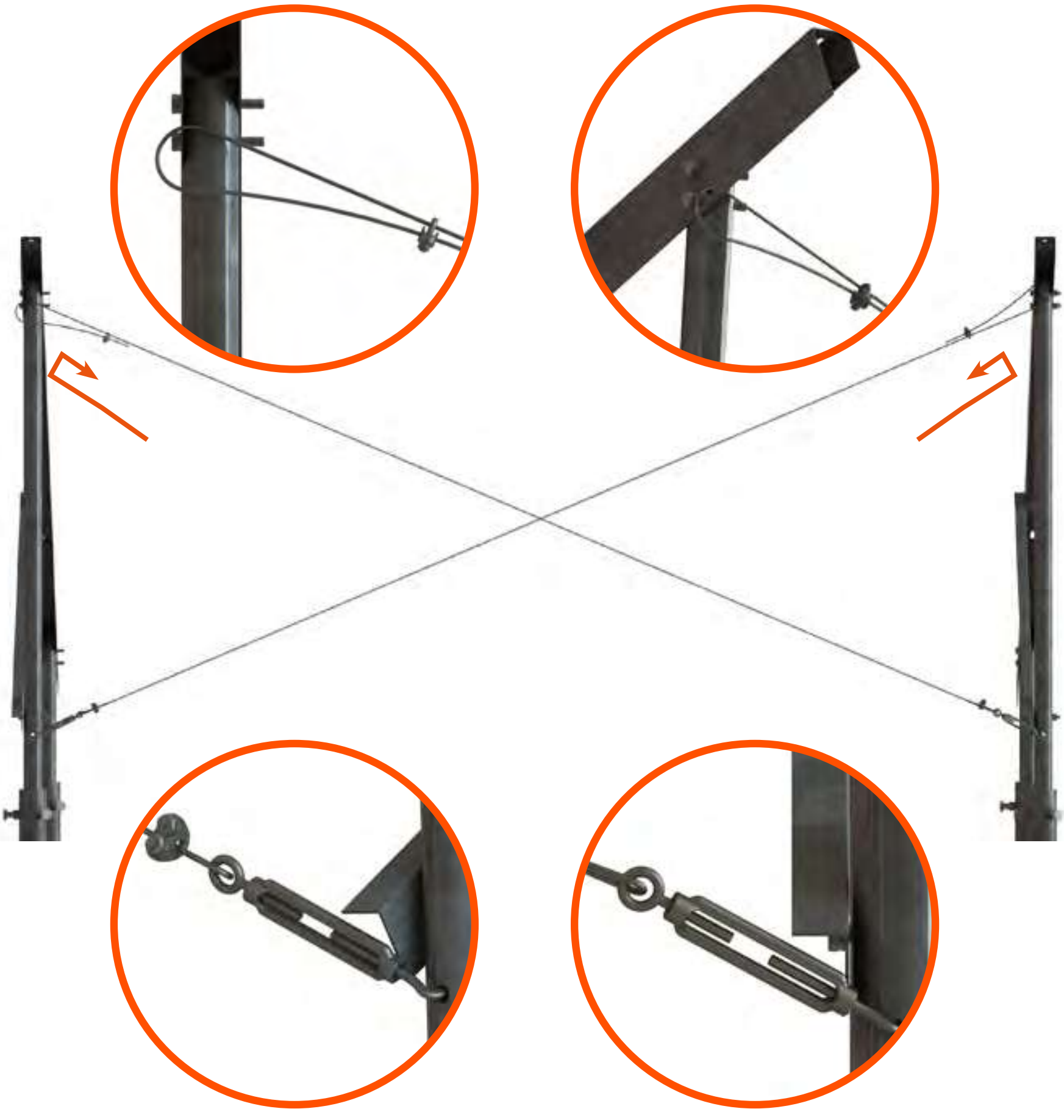


PARK TEGRA FRAME

Attach the Wind Bracing to the Park Tegra Frame, where specified on the layout.

TENSION CABLE

CLIP



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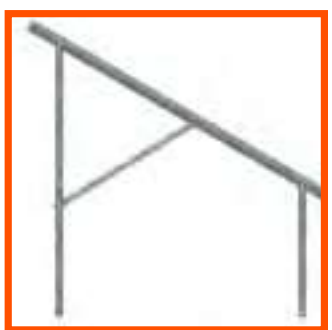
MOUNTING INSTRUCTIONS

SPANNER

LAYOUT

TURNBUCKLE

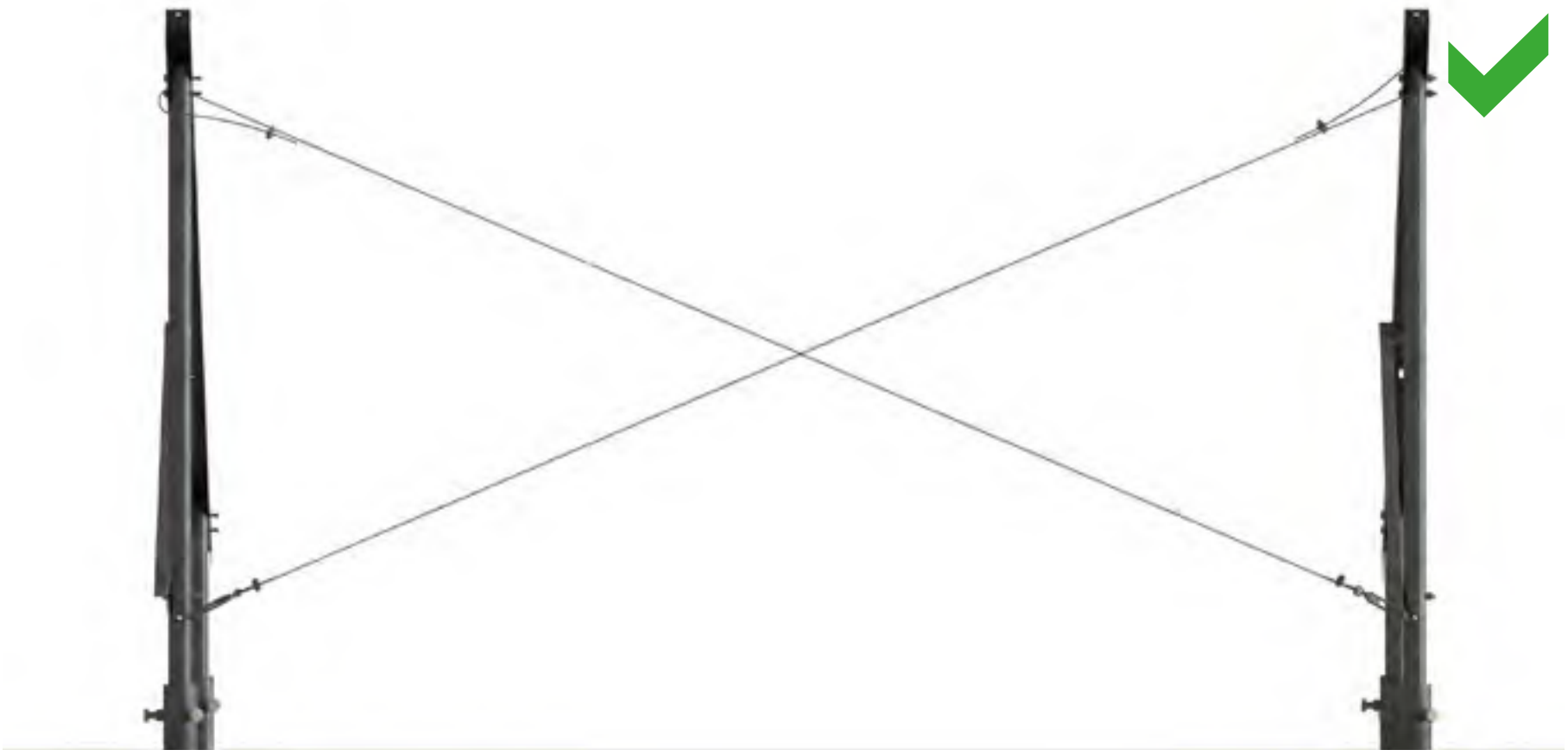


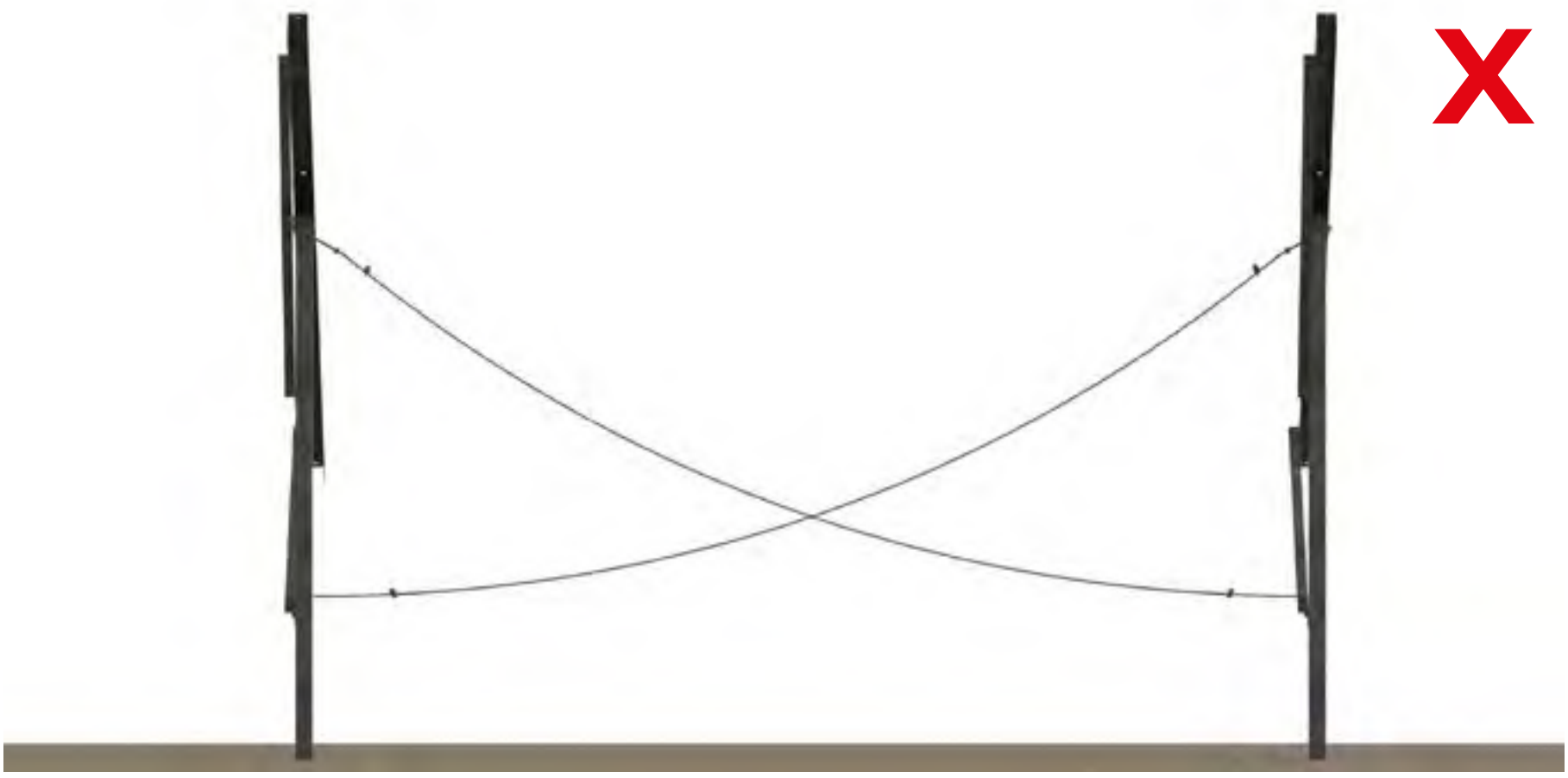
PARK TEGRA FRAME

Attach the Wind Bracing to the Park Tegra Frame, where specified on the layout.

TENSION CABLE

CLIP





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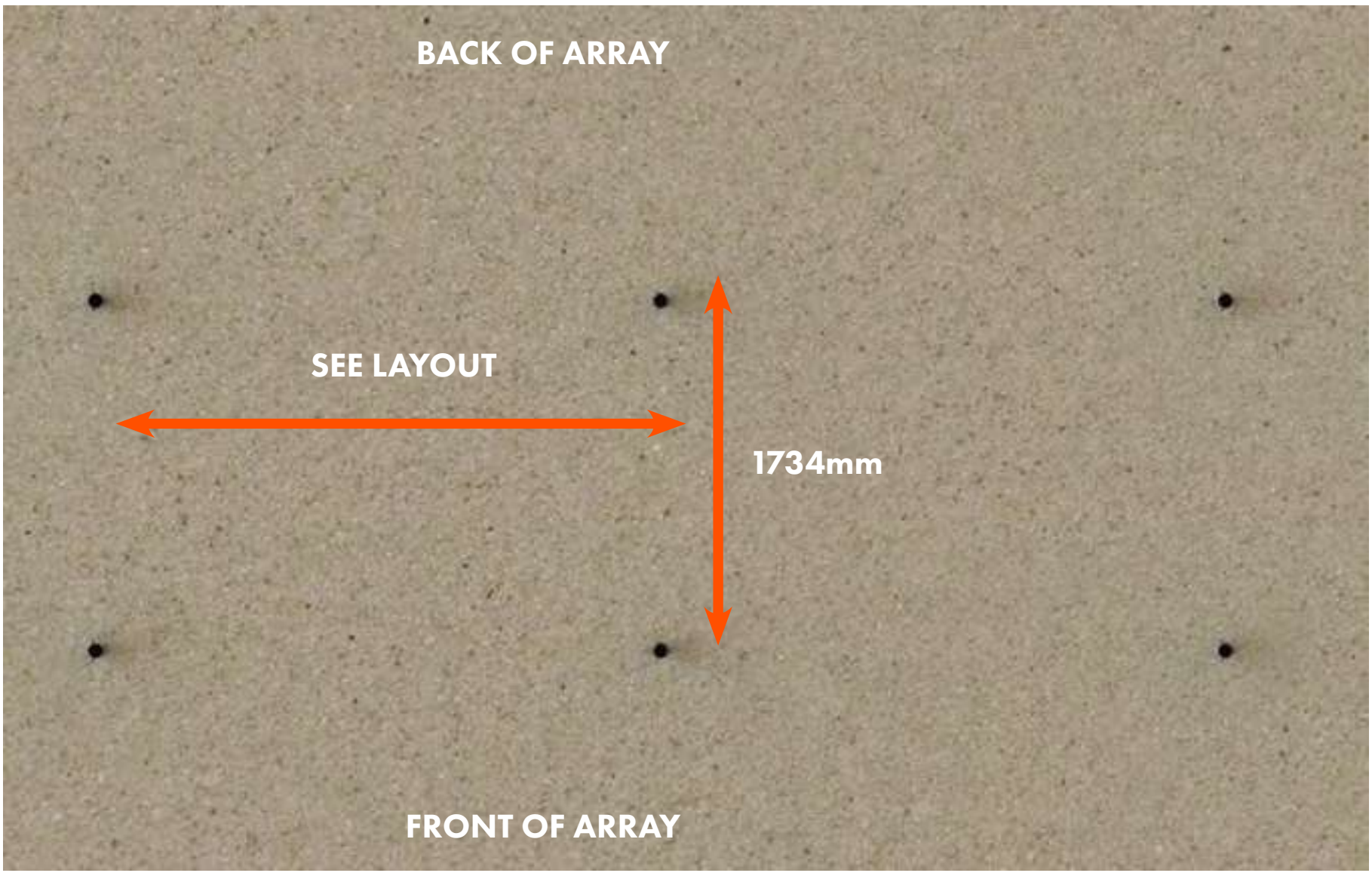
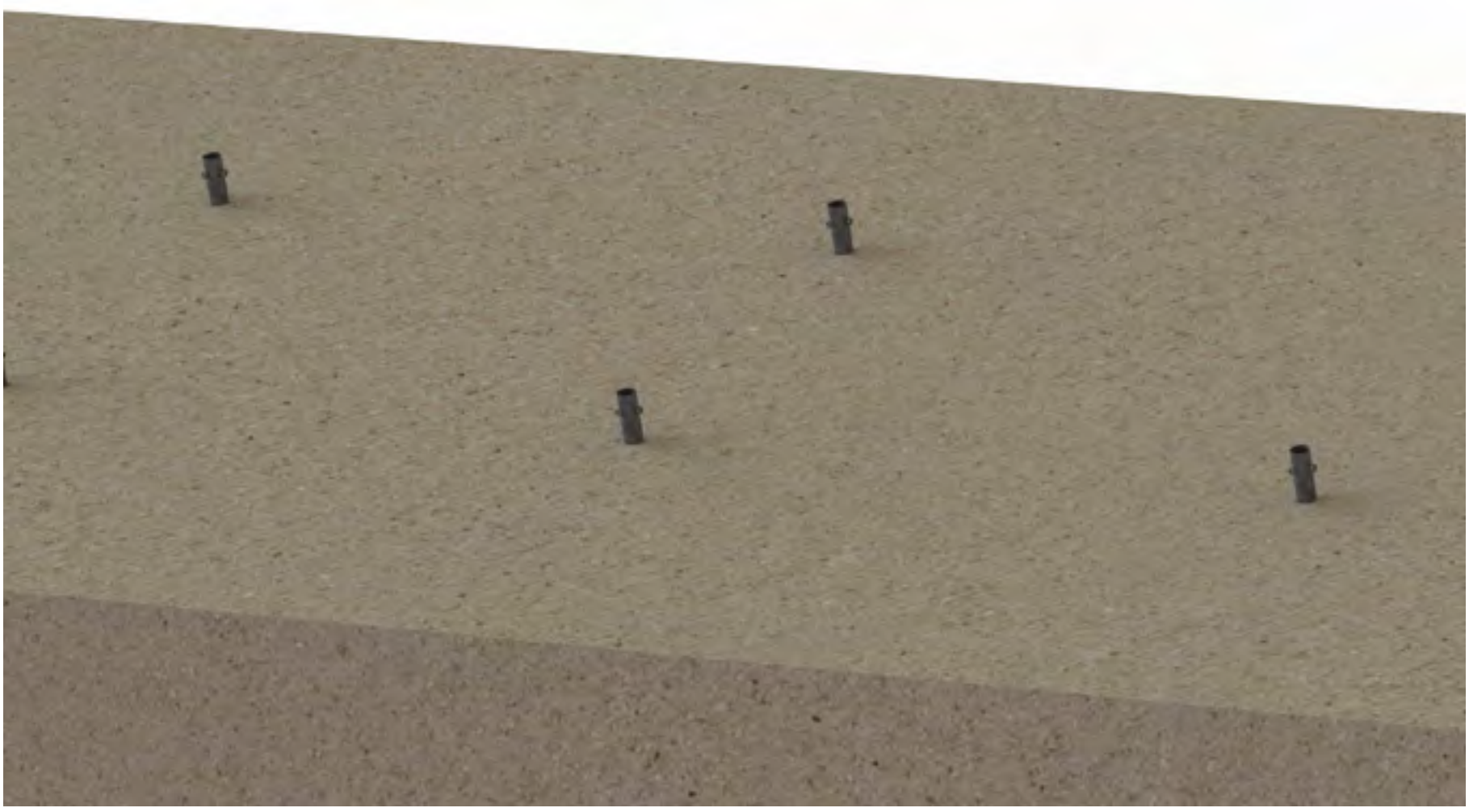
MOUNTING INSTRUCTIONS

Use the layout to mark out the position of the Ground Anchors.

LAYOUT

GROUND ANCHOR





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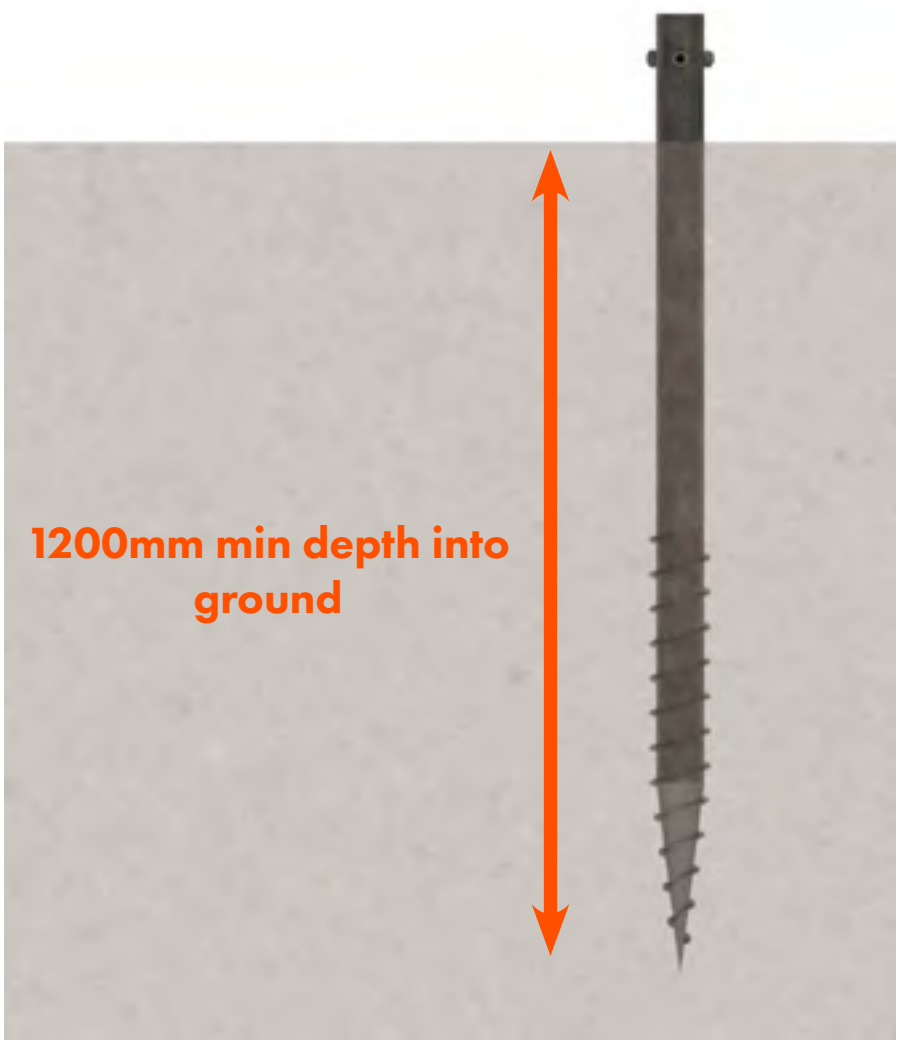
MOUNTING INSTRUCTIONS

HYDRAULIC AUGER UNIT

AUGER ADAPTER

GROUND ANCHOR



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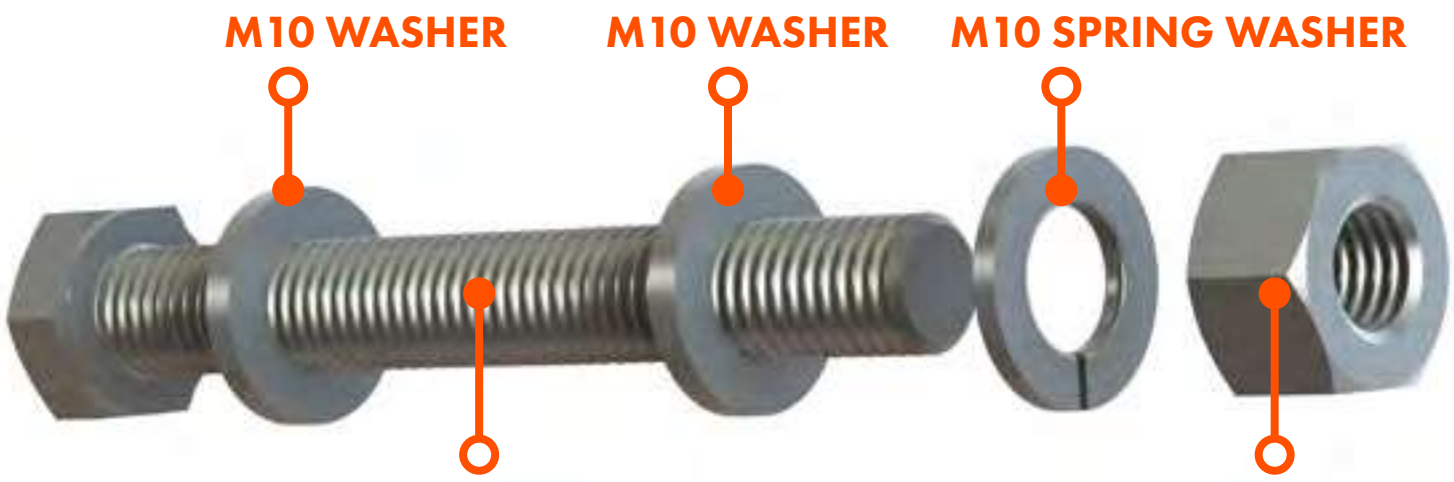

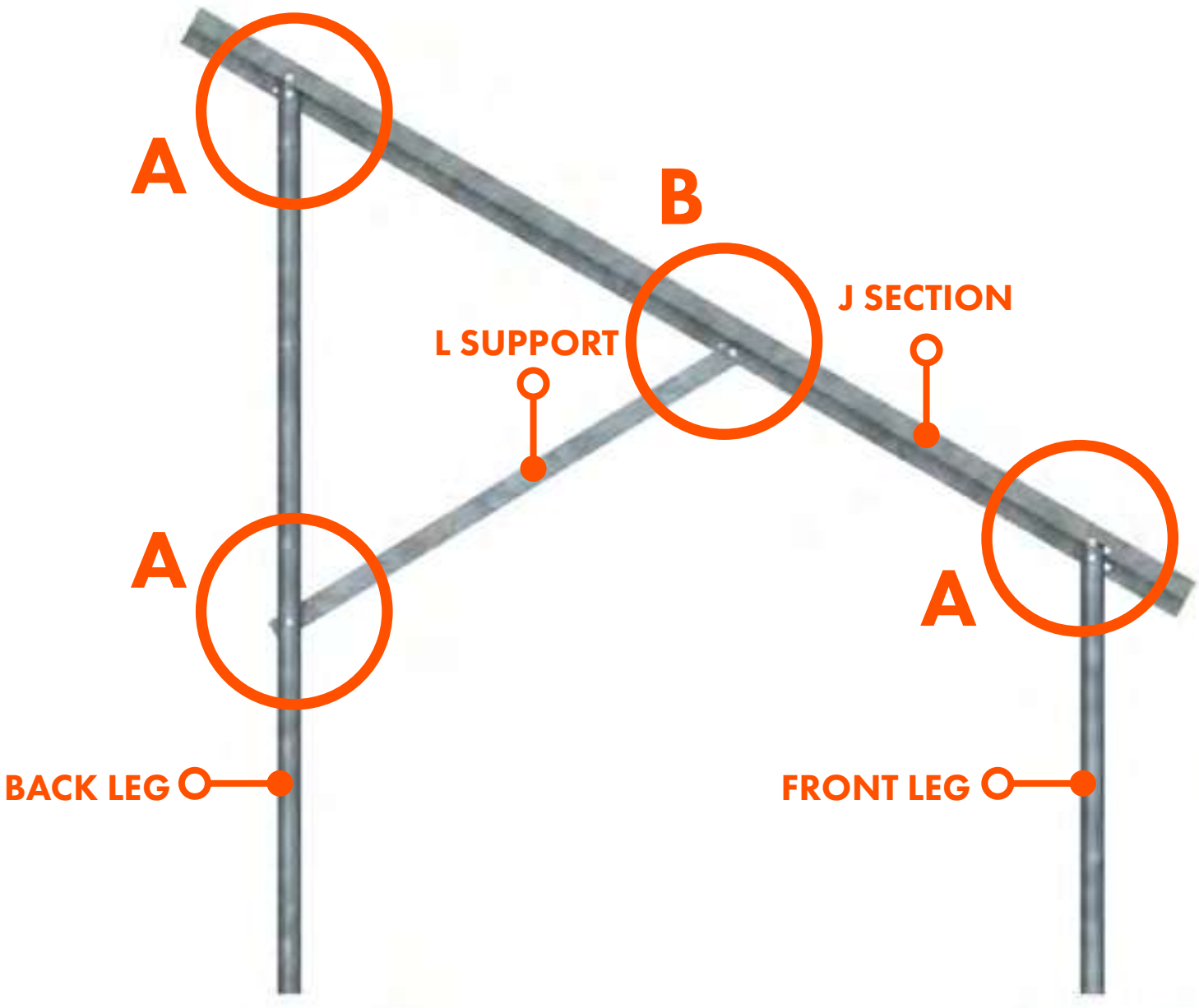

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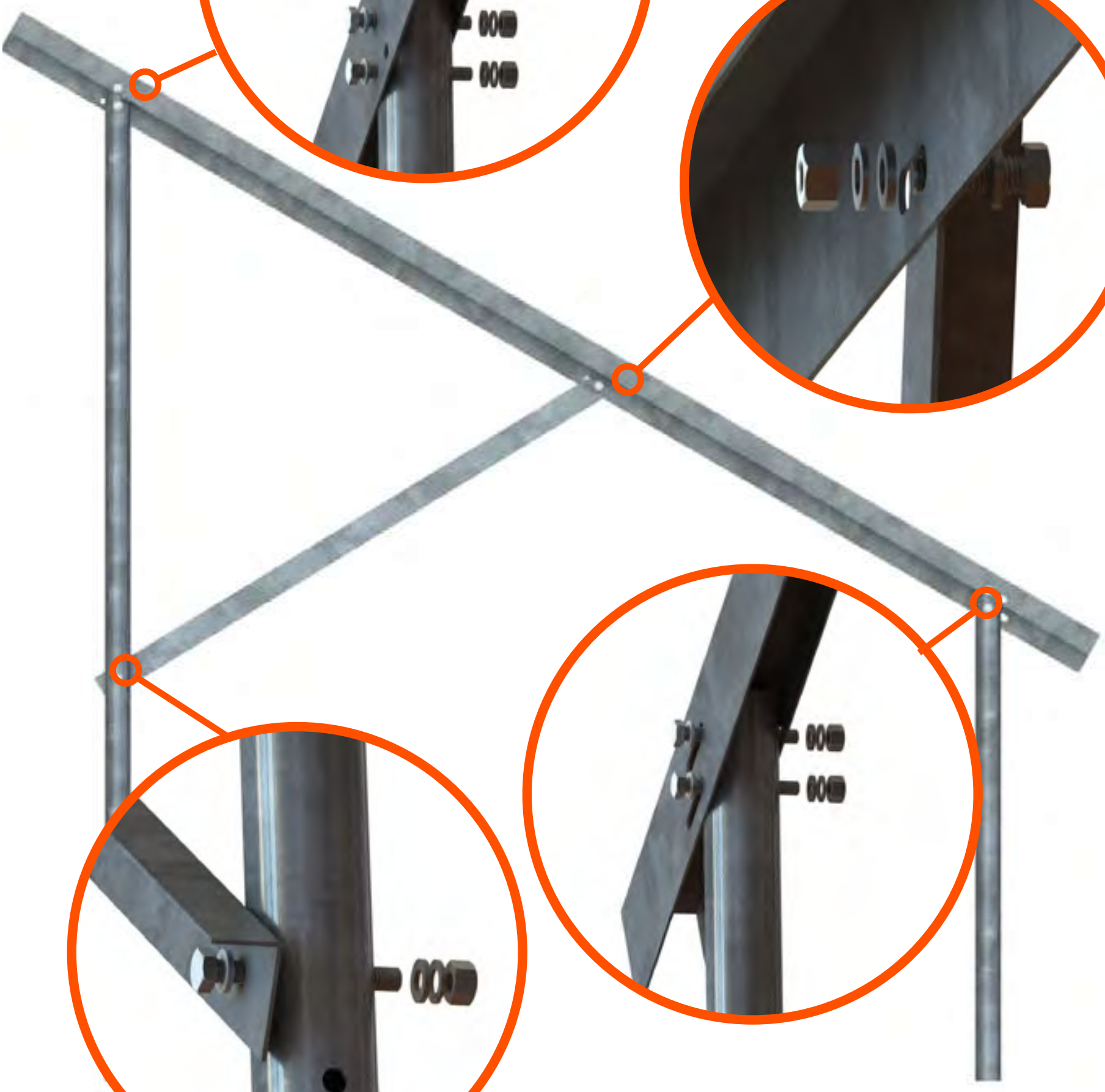
MOUNTING INSTRUCTIONS

SOCKET WRENCH

35Nm



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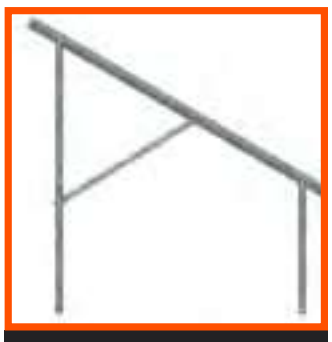
MOUNTING INSTRUCTIONS

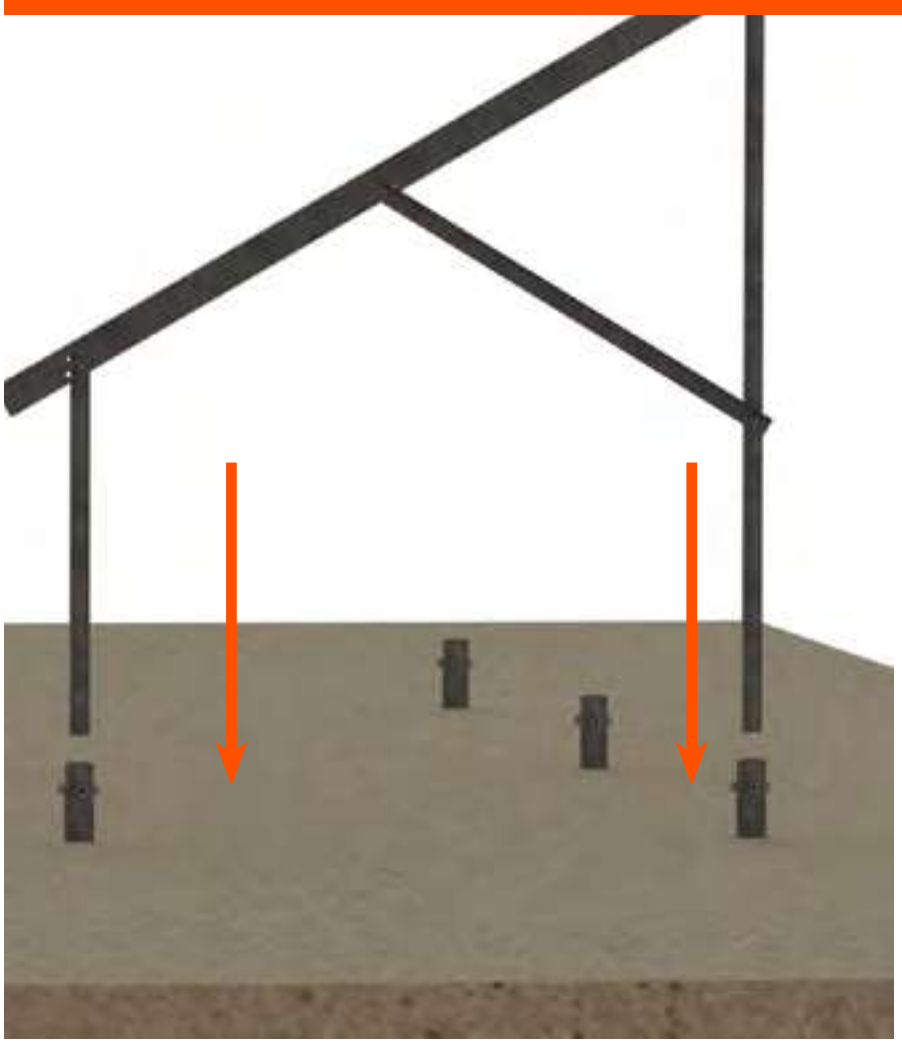
SOCKET WRENCH

GROUND ANCHOR



PARK TEGRA FRAME

Galvanised spray is provided for any scratches made into any of the steel items. Follow the instructions on the spray.



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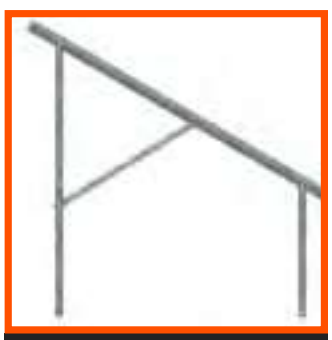
MOUNTING INSTRUCTIONS

SPANNER

M10 T BOLT

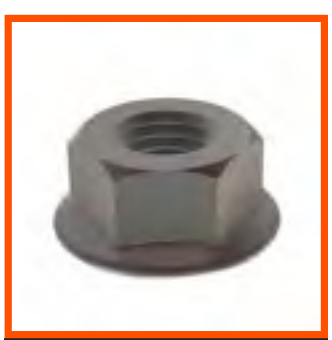
PENNY WASHER



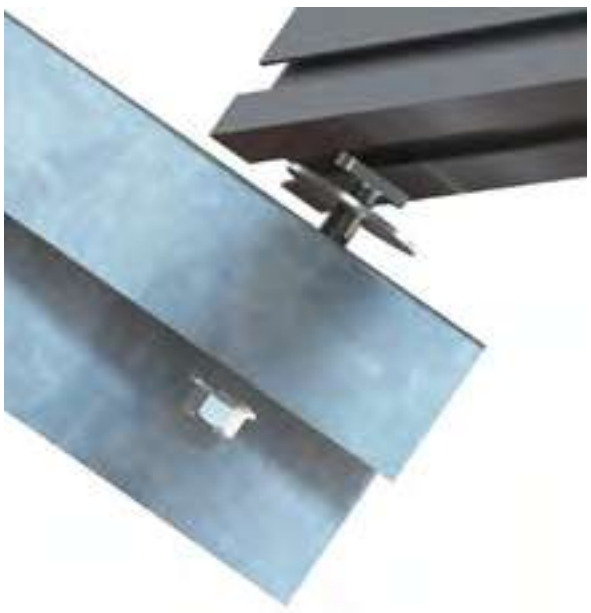
PARK TEGRA FRAME

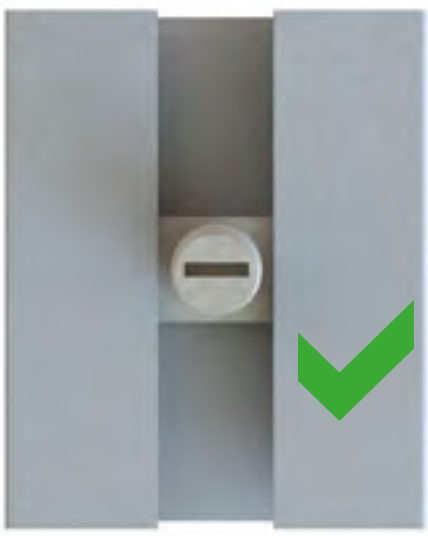
Attach the Mounting Rail to the Park Tegra Frame.

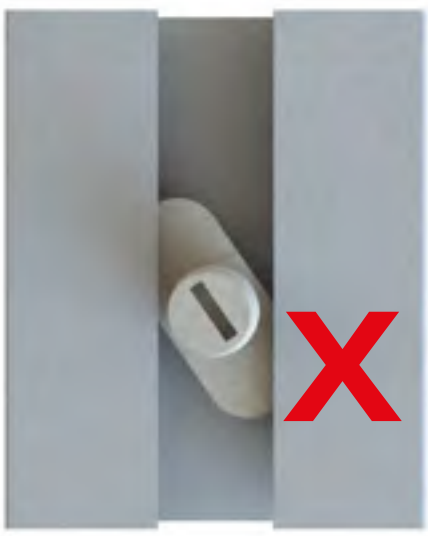
M10 SERRATED NUT



M10 SERRATED NUT







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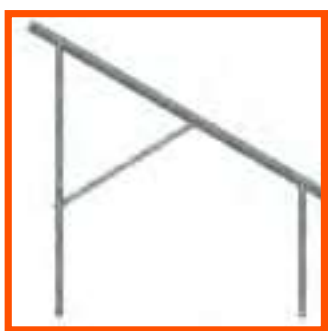
MOUNTING INSTRUCTIONS

SPANNER

LAYOUT

TURNBUCKLE

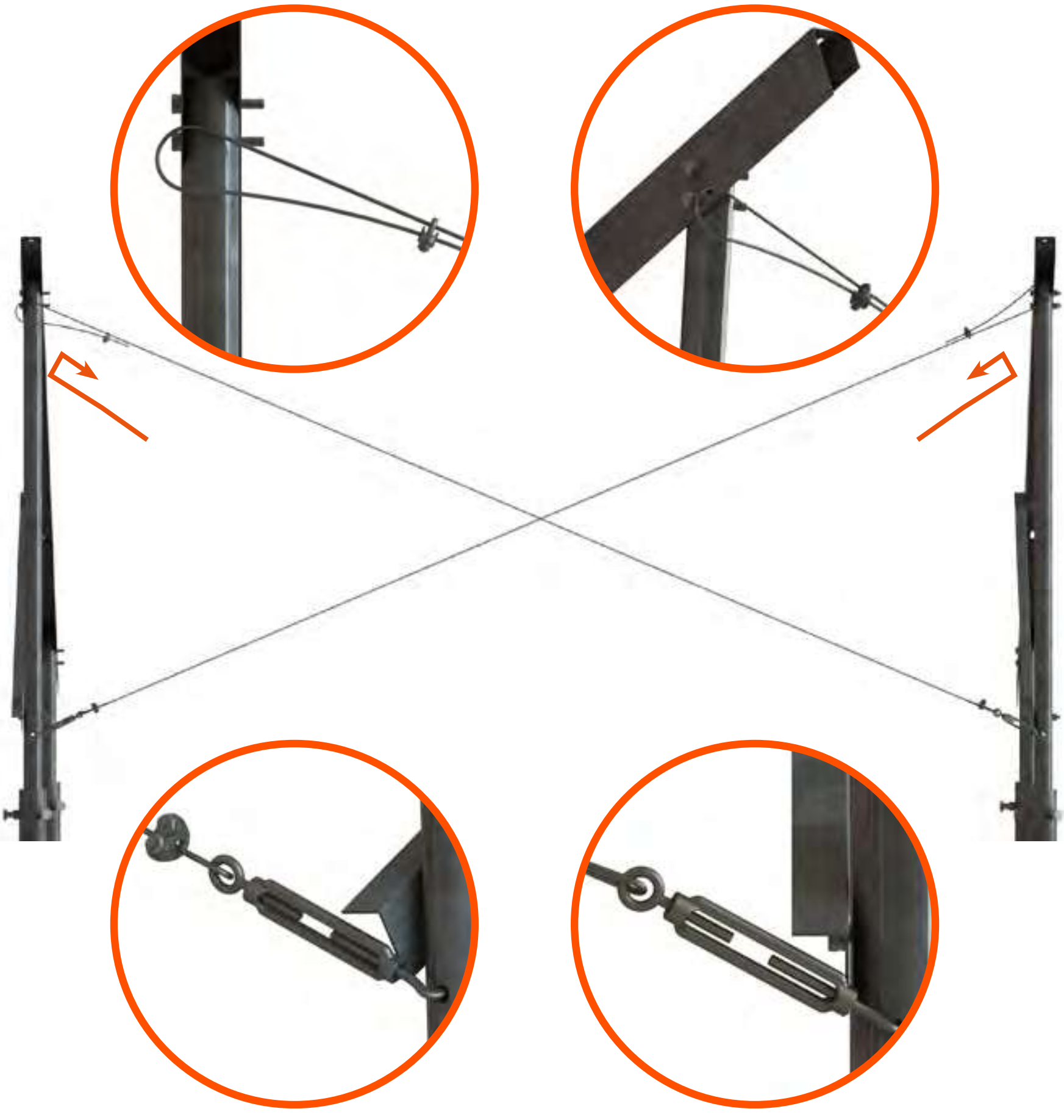


PARK TEGRA FRAME

Attach the Wind Bracing to the Park Tegra Frame, where specified on the layout.

TENSION CABLE

CLIP



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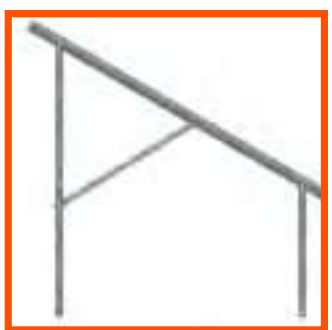
MOUNTING INSTRUCTIONS

SPANNER

LAYOUT

TURNBUCKLE

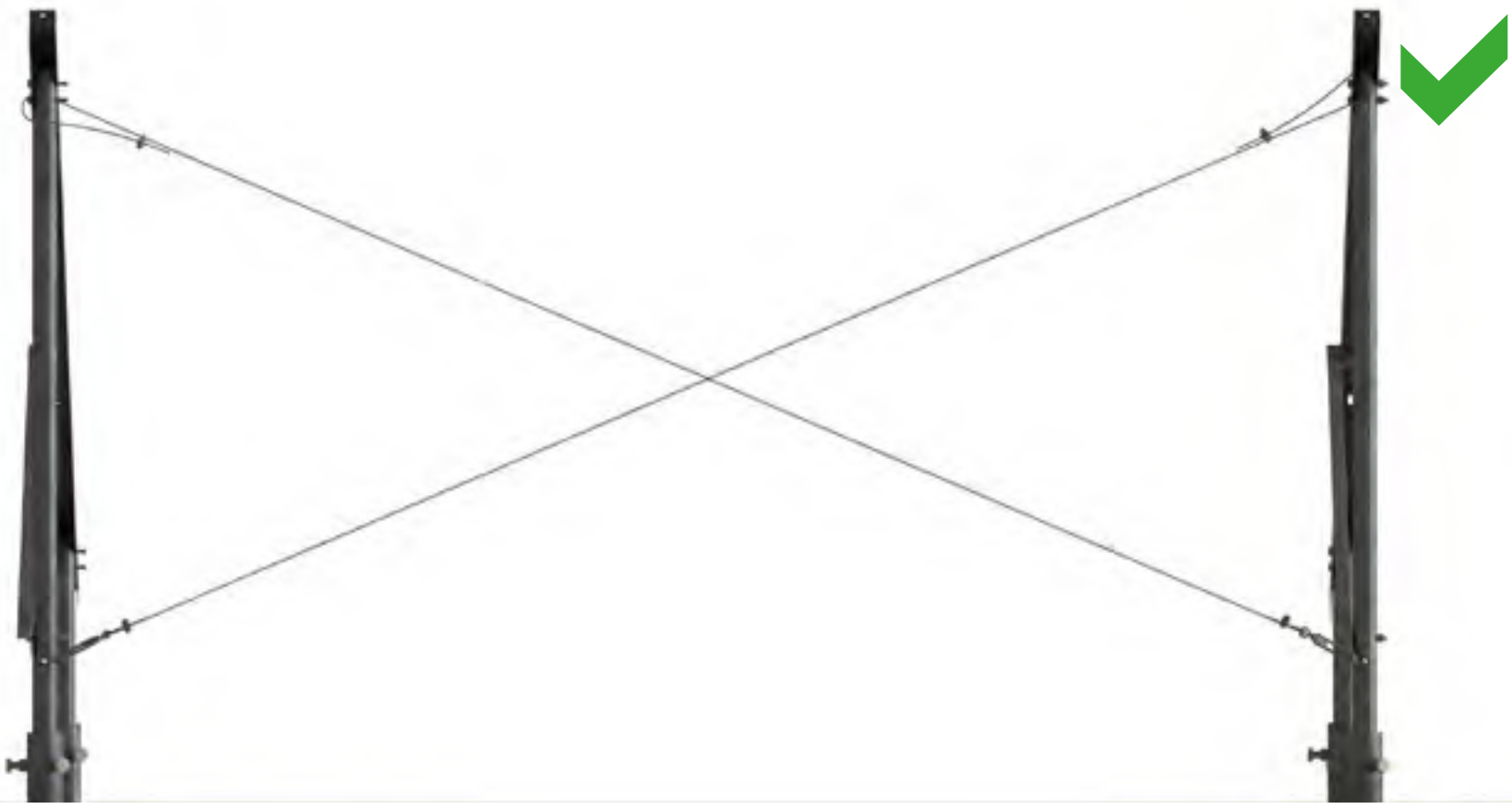


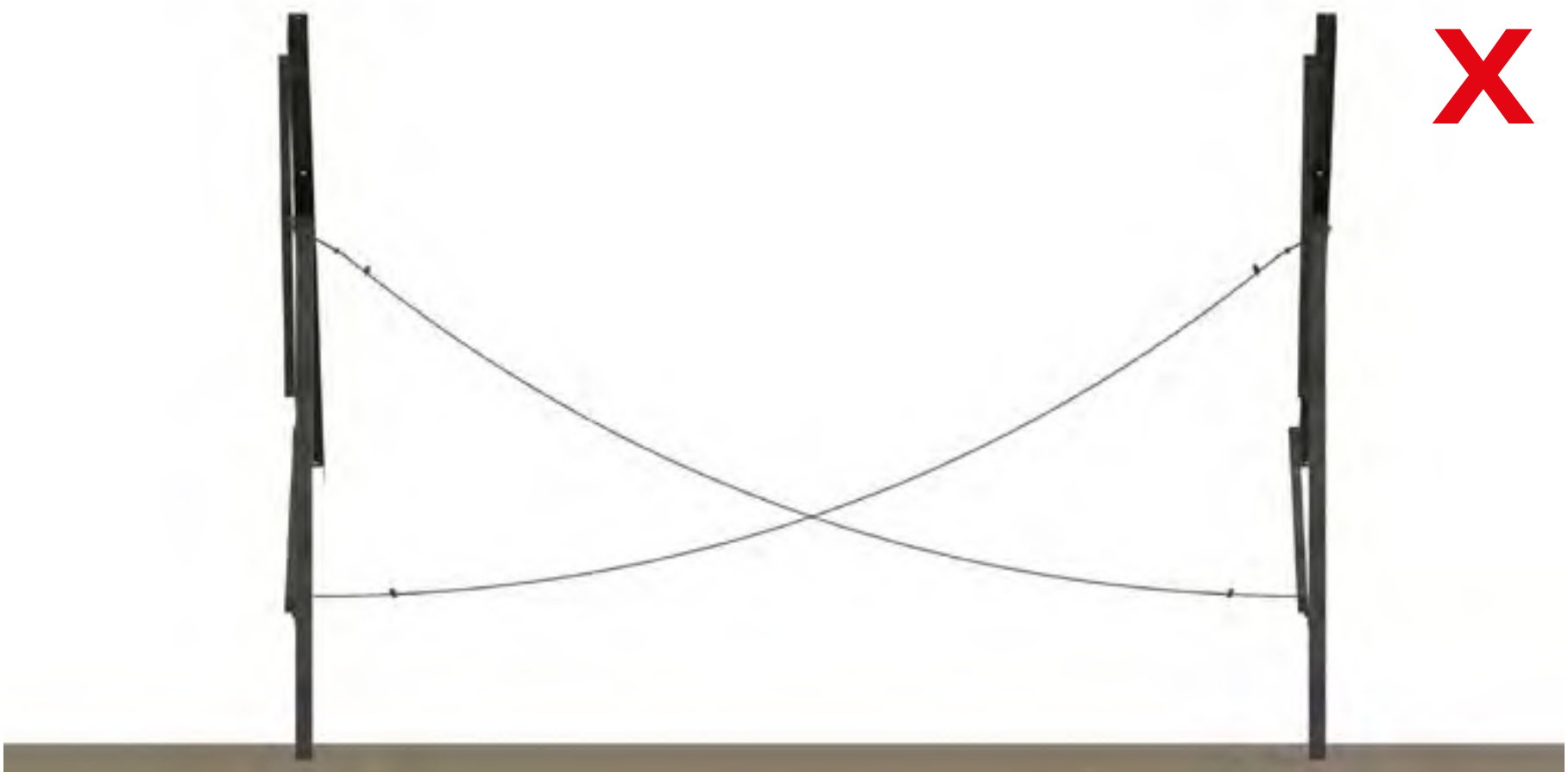
PARK TEGRA FRAME

Attach the Wind Bracing to the Park Tegra Frame, where specified on the layout.

TENSION CABLE

CLIP





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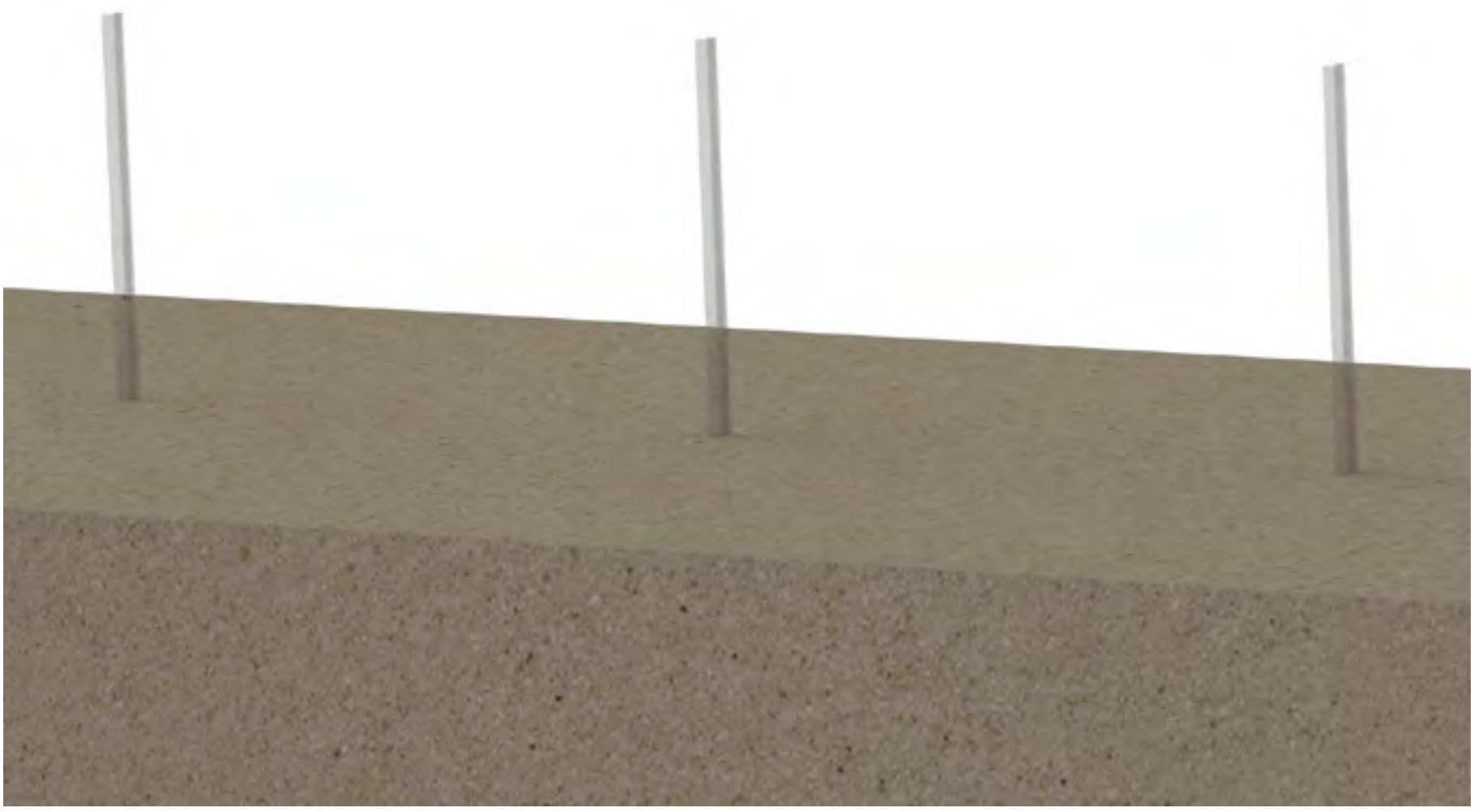
MOUNTING INSTRUCTIONS

Use the layout to mark out the piling positions.

LAYOUT



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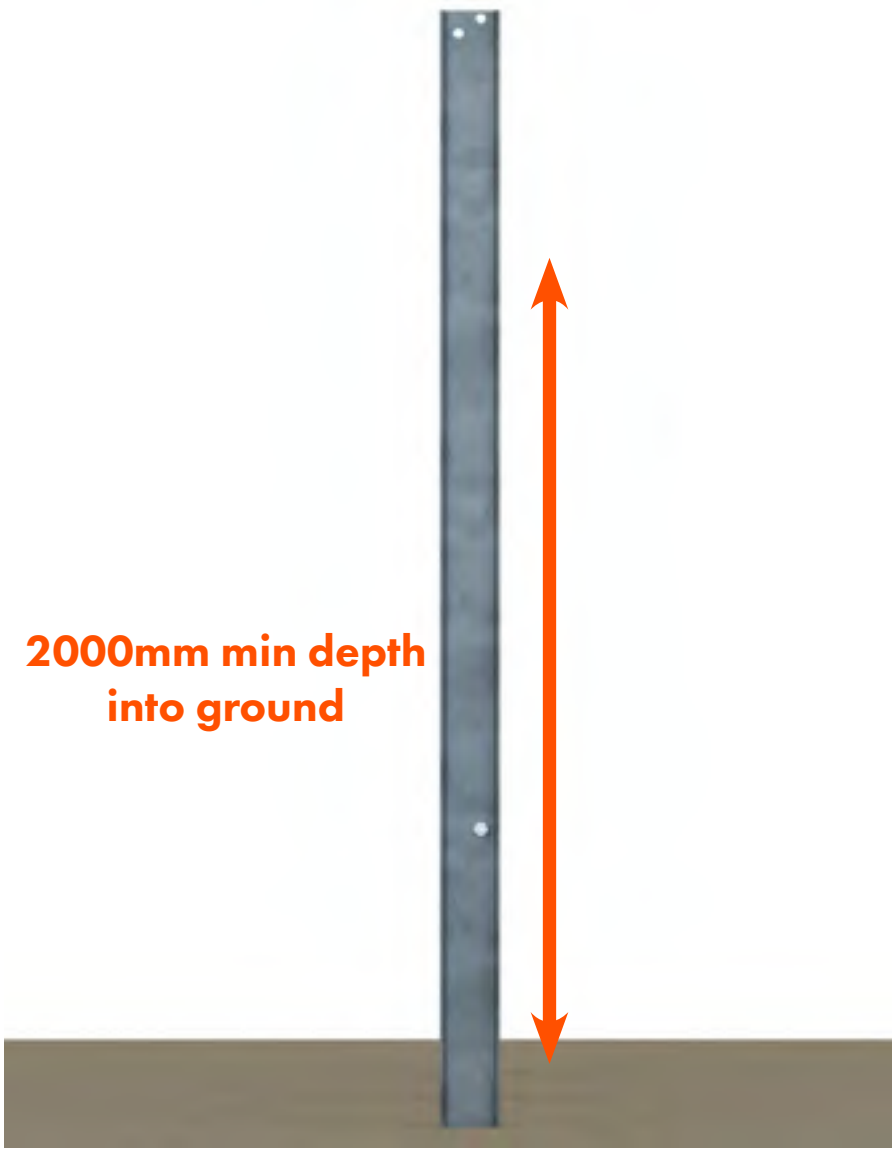
MOUNTING INSTRUCTIONS

HYDRAULIC PILING UNIT

MAIN BEAM



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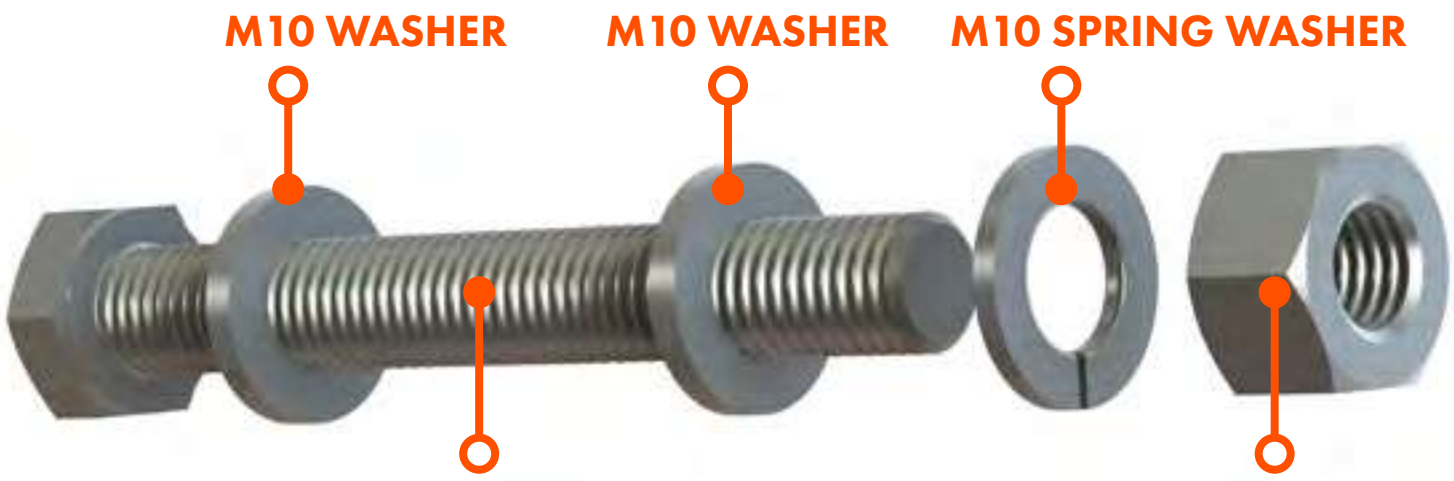

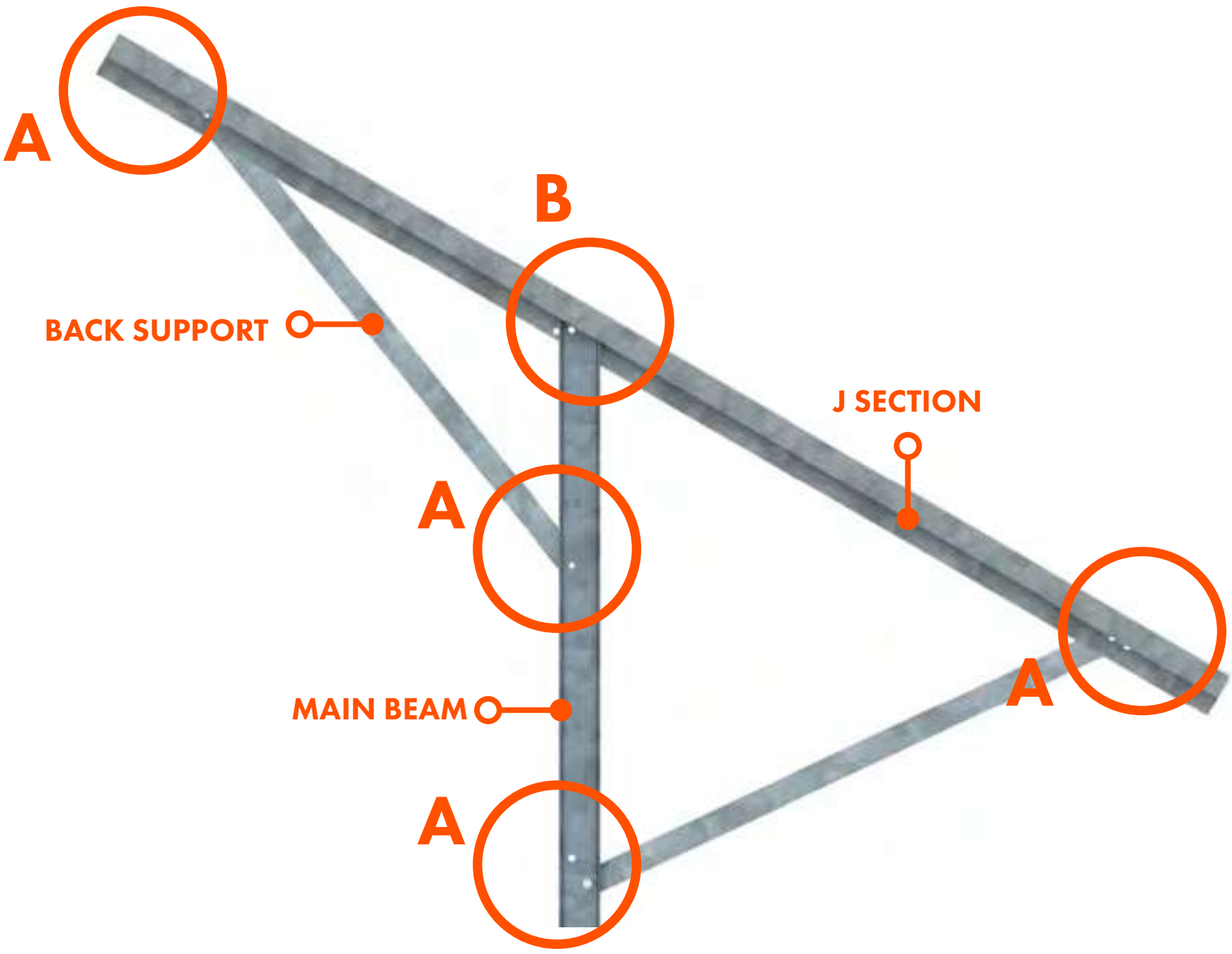

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MOUNTING INSTRUCTIONS

Galvanised spray is provided for any scratches made into any of the steel items. Follow the instructions on the spray.

SOCKET WRENCH

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MOUNTING INSTRUCTIONS

SPANNER

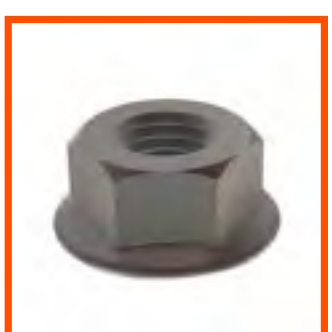
M10 T BOLT

PENNY WASHER

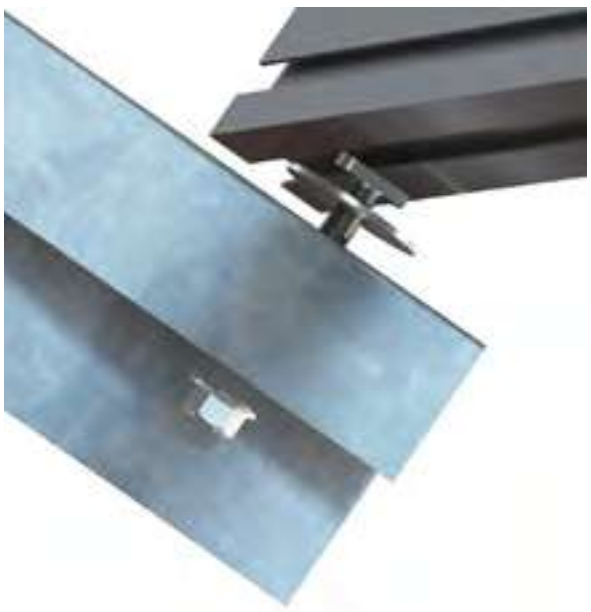
PARK TEGRA FRAME

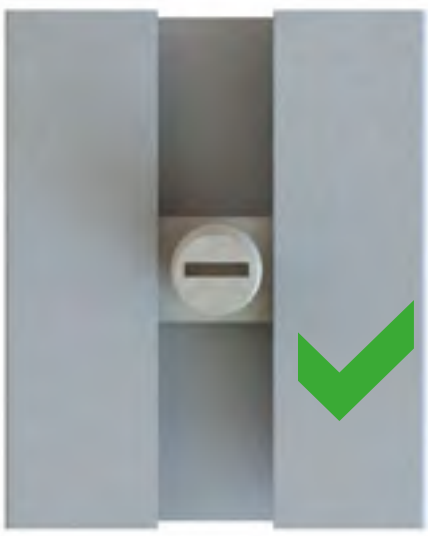
Attach the Mounting Rail to the Park Tegra Frame.

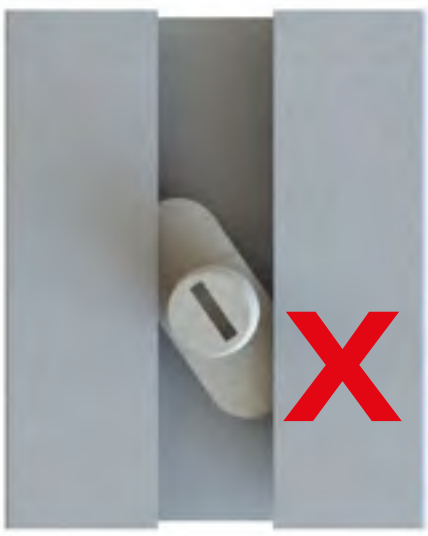
M10 SERRATED NUT



M10 SERRATED NUT







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MOUNTING INSTRUCTIONS

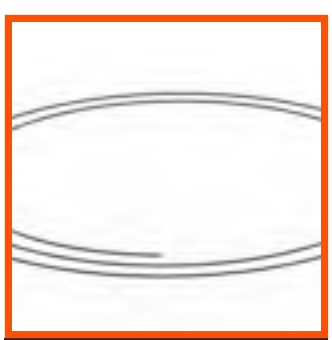
SPANNER

LAYOUT

TURNBUCKLE

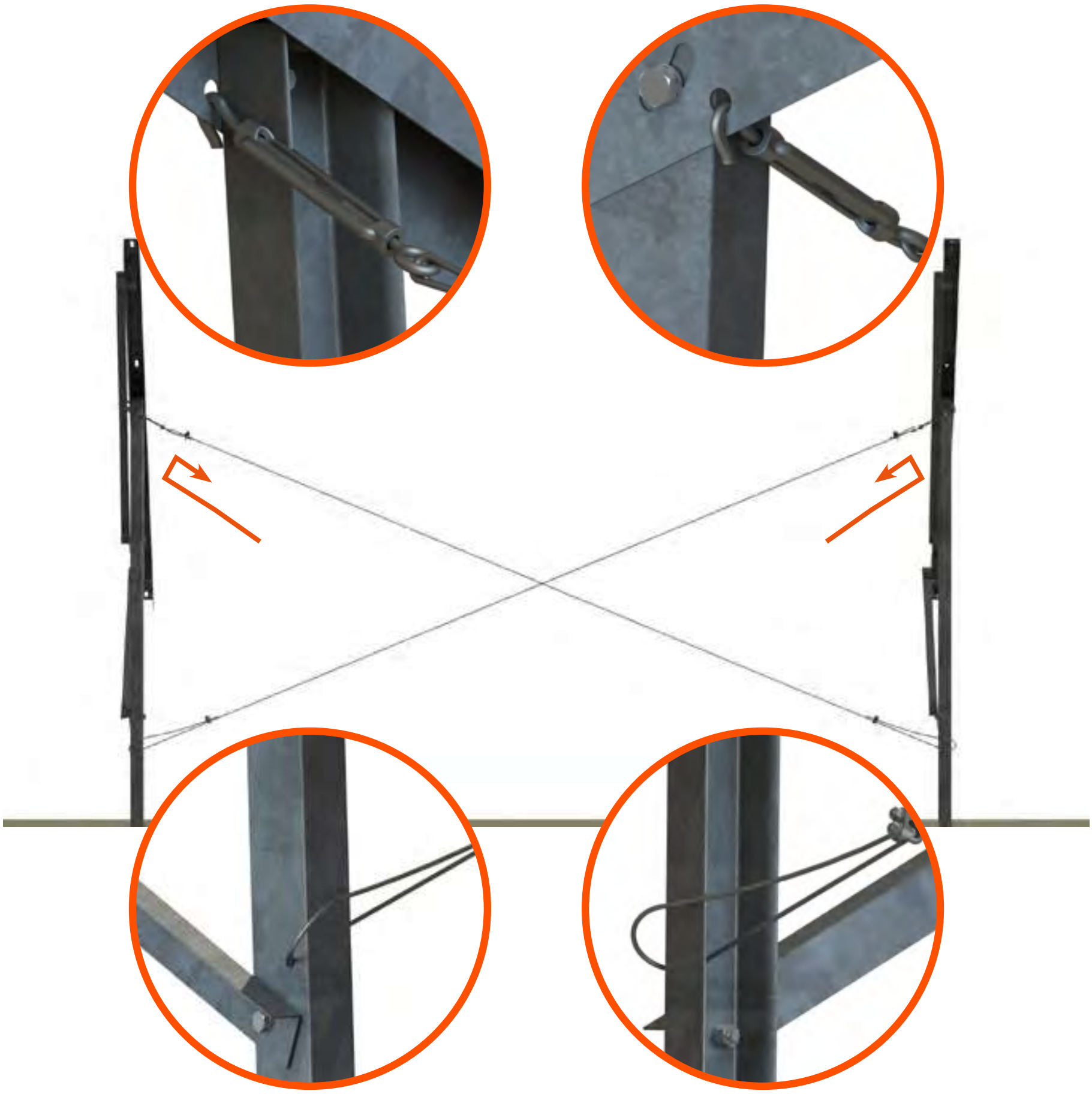
PARK TEGRA FRAME

Attach the Wind Bracing to the Park Tegra Frame, where specified on the layout.



TENSION CABLE

CLIP



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MOUNTING INSTRUCTIONS

SPANNER

LAYOUT

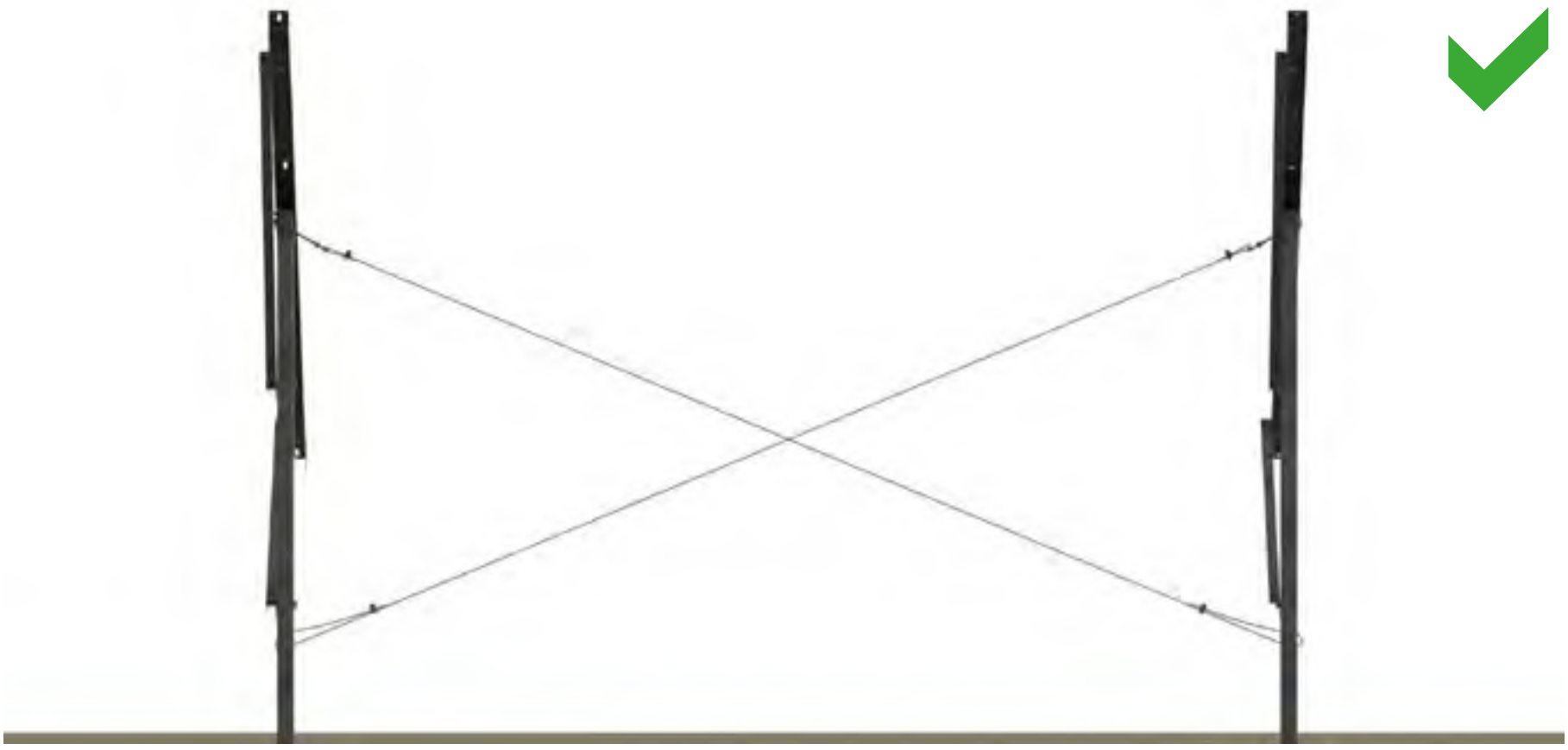
TURNBUCKLE

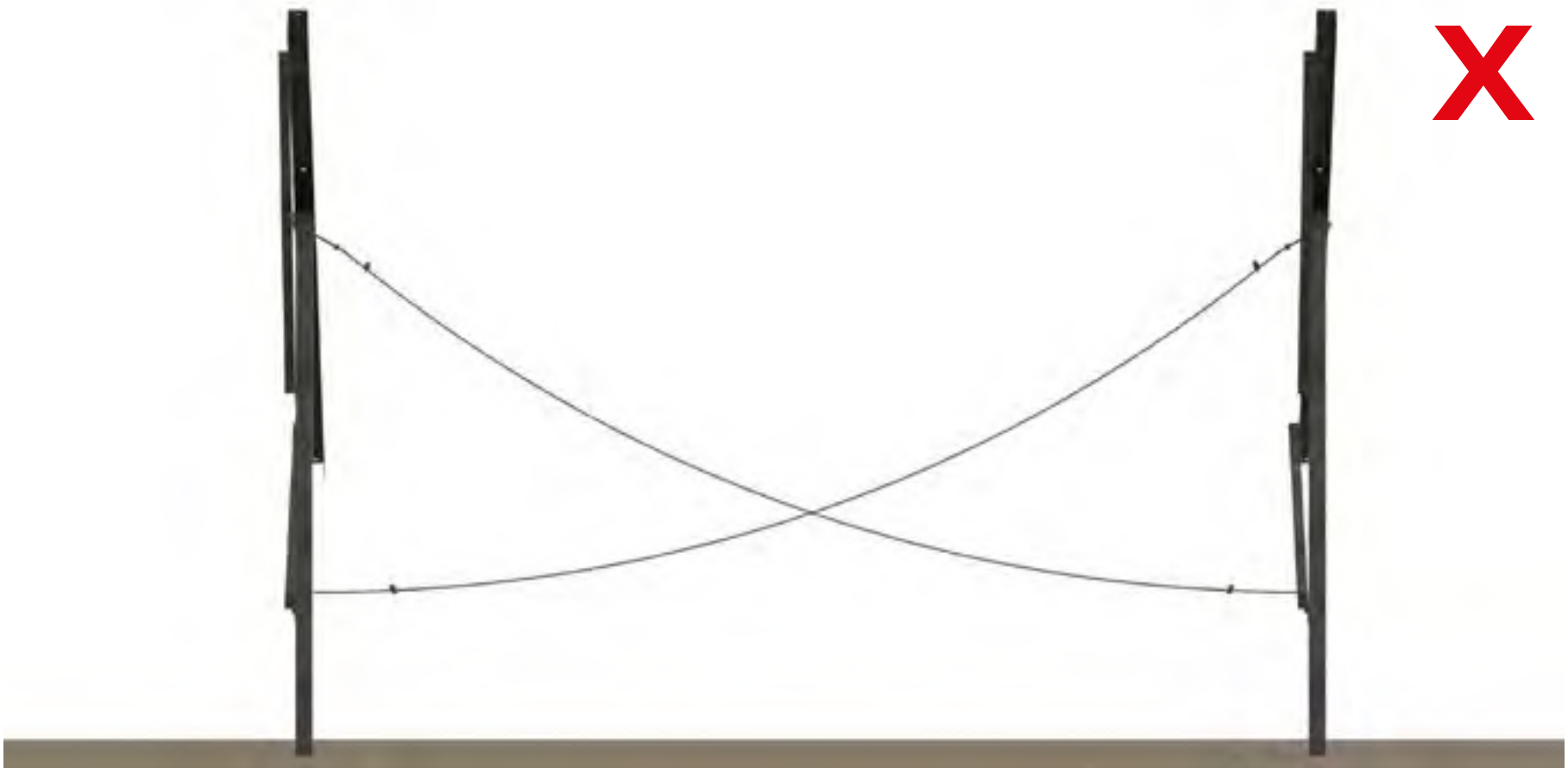
PARK TEGRA FRAME

Attach the Wind Bracing to the Park Tegra Frame, where specified on the layout.

TENSION CABLE

CLIP





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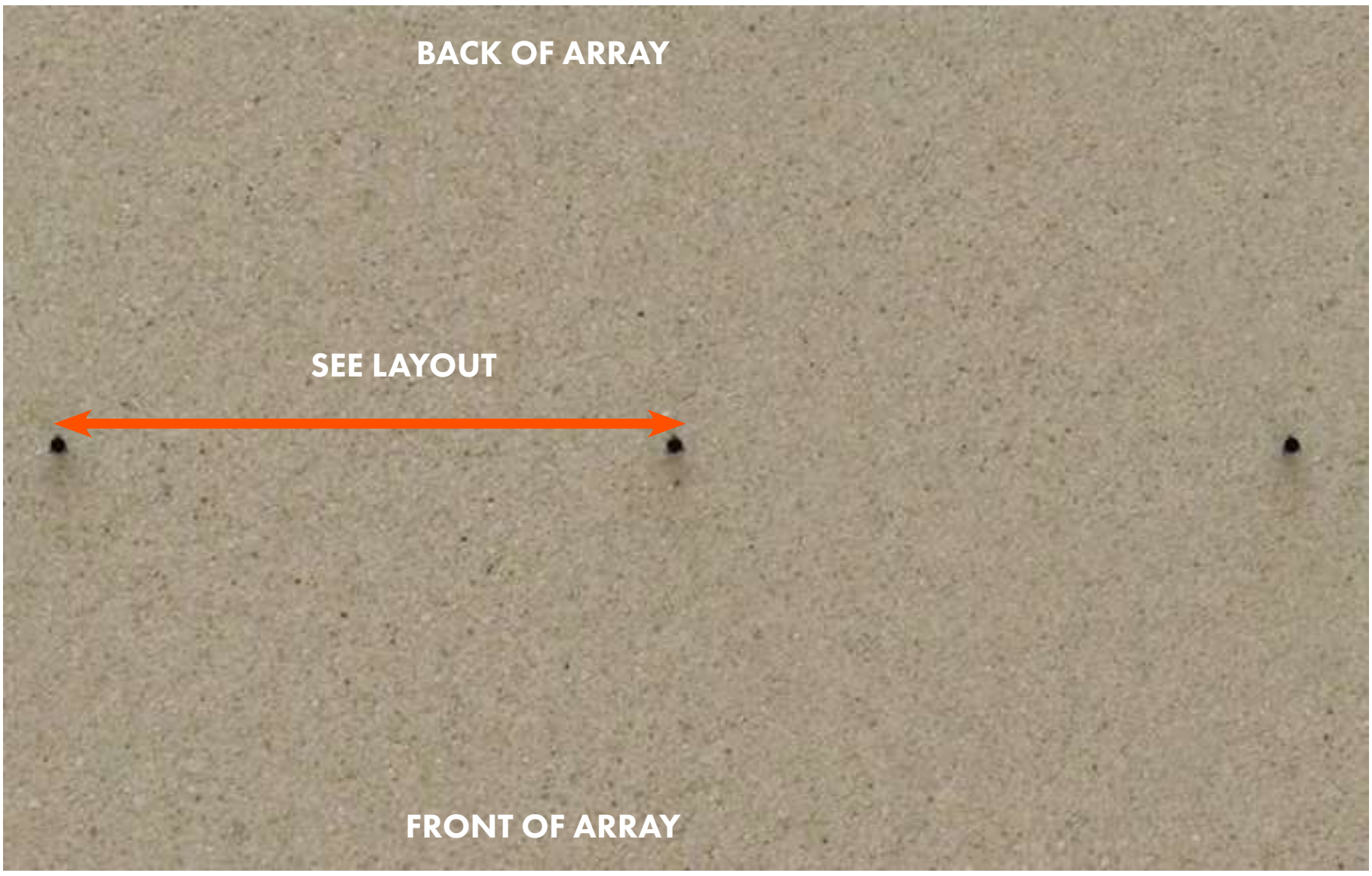
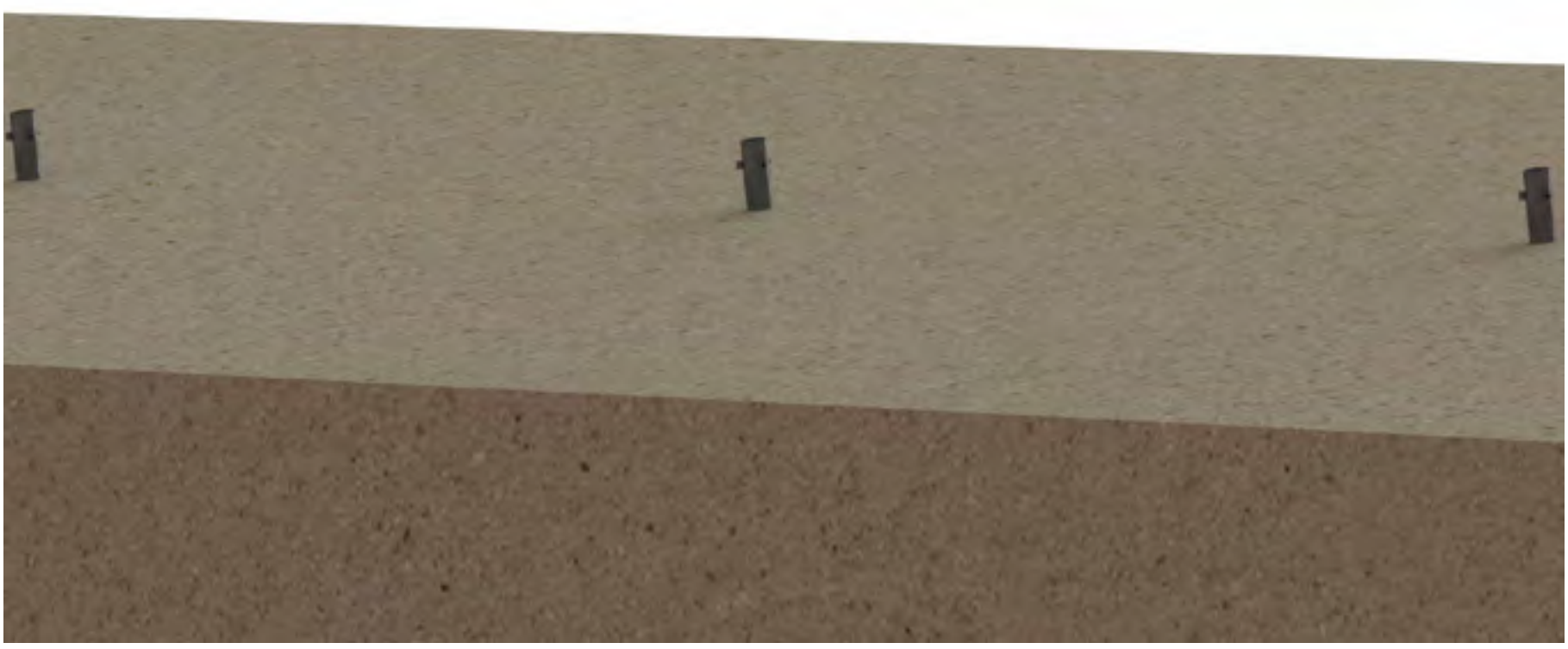
MOUNTING INSTRUCTIONS

Use the layout to mark out the position of the Ground Anchors.

LAYOUT

GROUND ANCHOR





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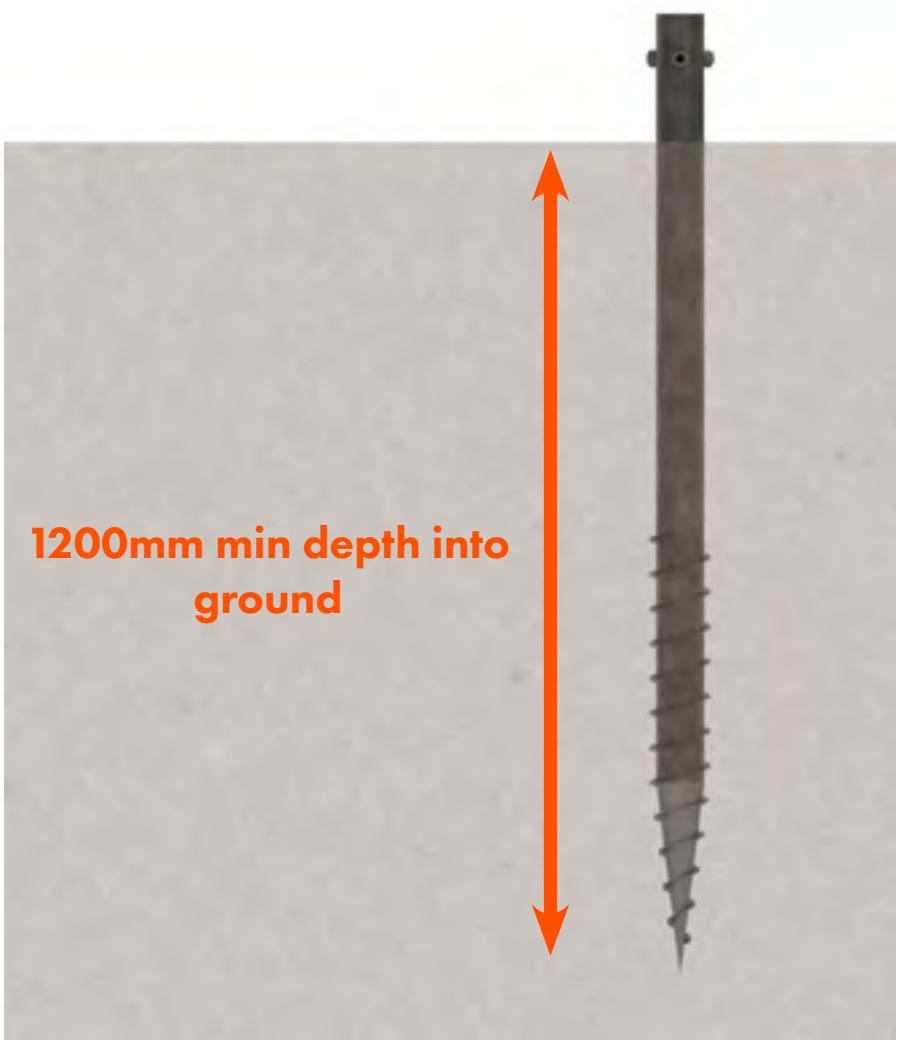
MOUNTING INSTRUCTIONS

HYDRAULIC AUGER UNIT

AUGER ADAPTER

GROUND ANCHOR



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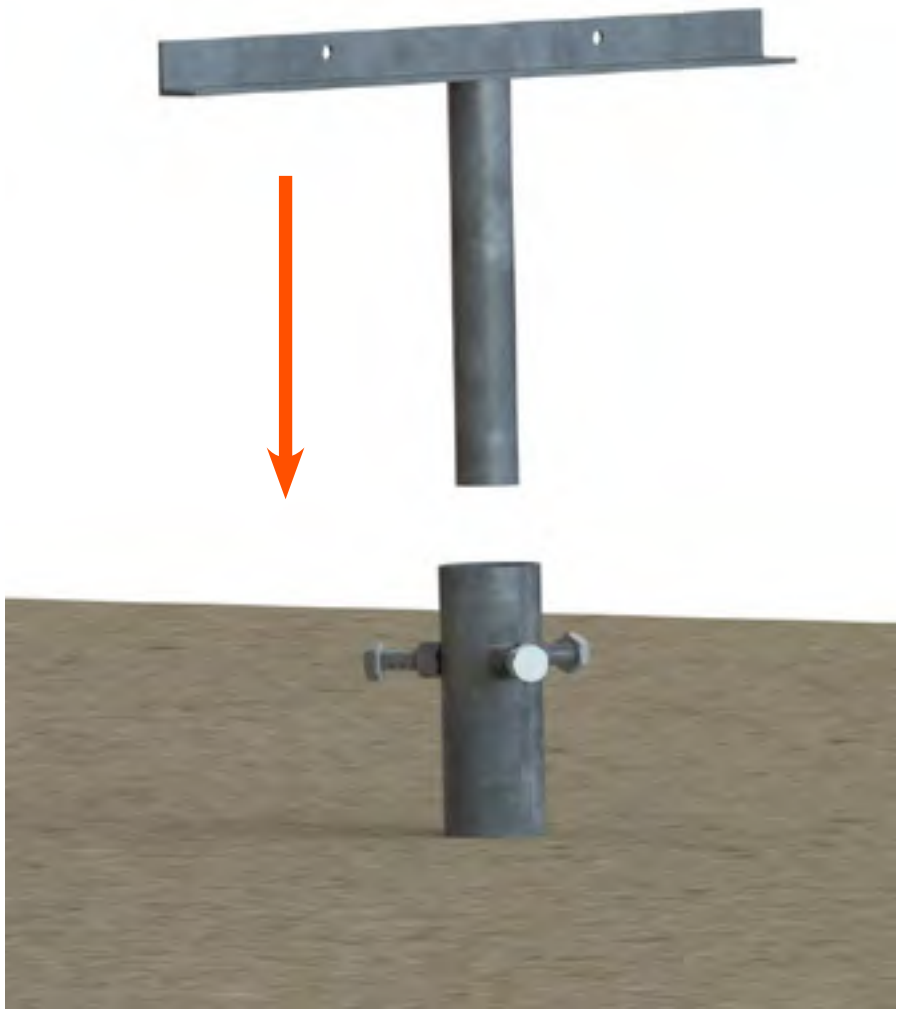
MOUNTING INSTRUCTIONS

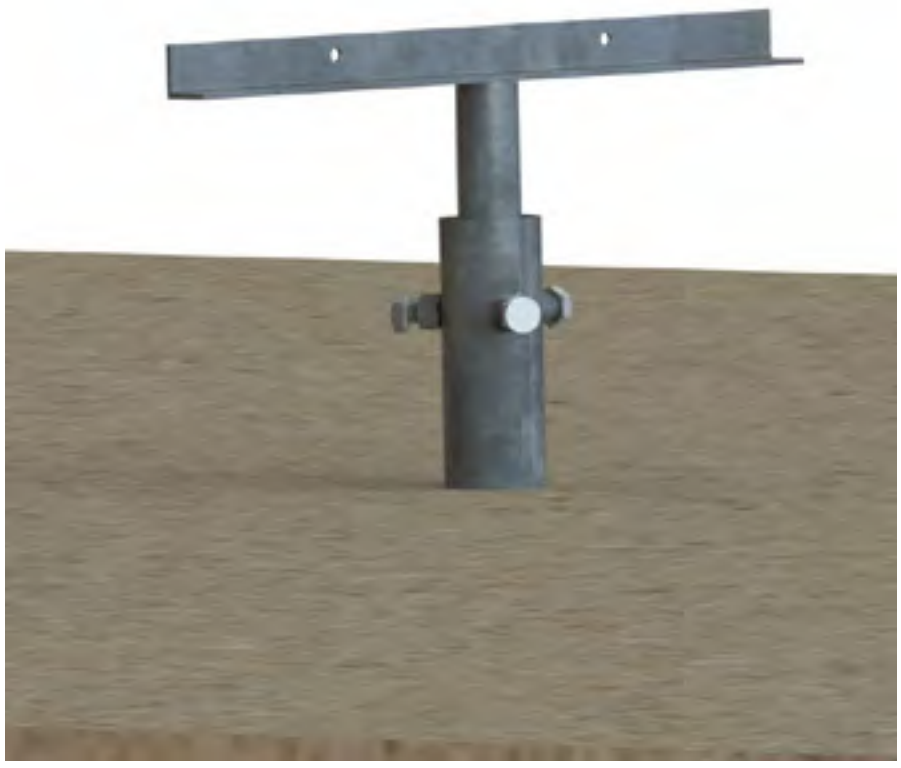
HYDRAULIC AUGER UNIT

AUGER ADAPTER

GROUND ANCHOR

Galvanised spray is provided for any scratches made into any of the steel items. Follow the instructions on the spray.





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MOUNTING INSTRUCTIONS

BATTERY DRILL
NOT IMPACTOR

HSS DRILL BIT

ELEVATION FRAME

T ADAPTER

Pre-drill the bottom of the Elevation, match holes positions in the T Adapter.

9mm pre-drill diameter

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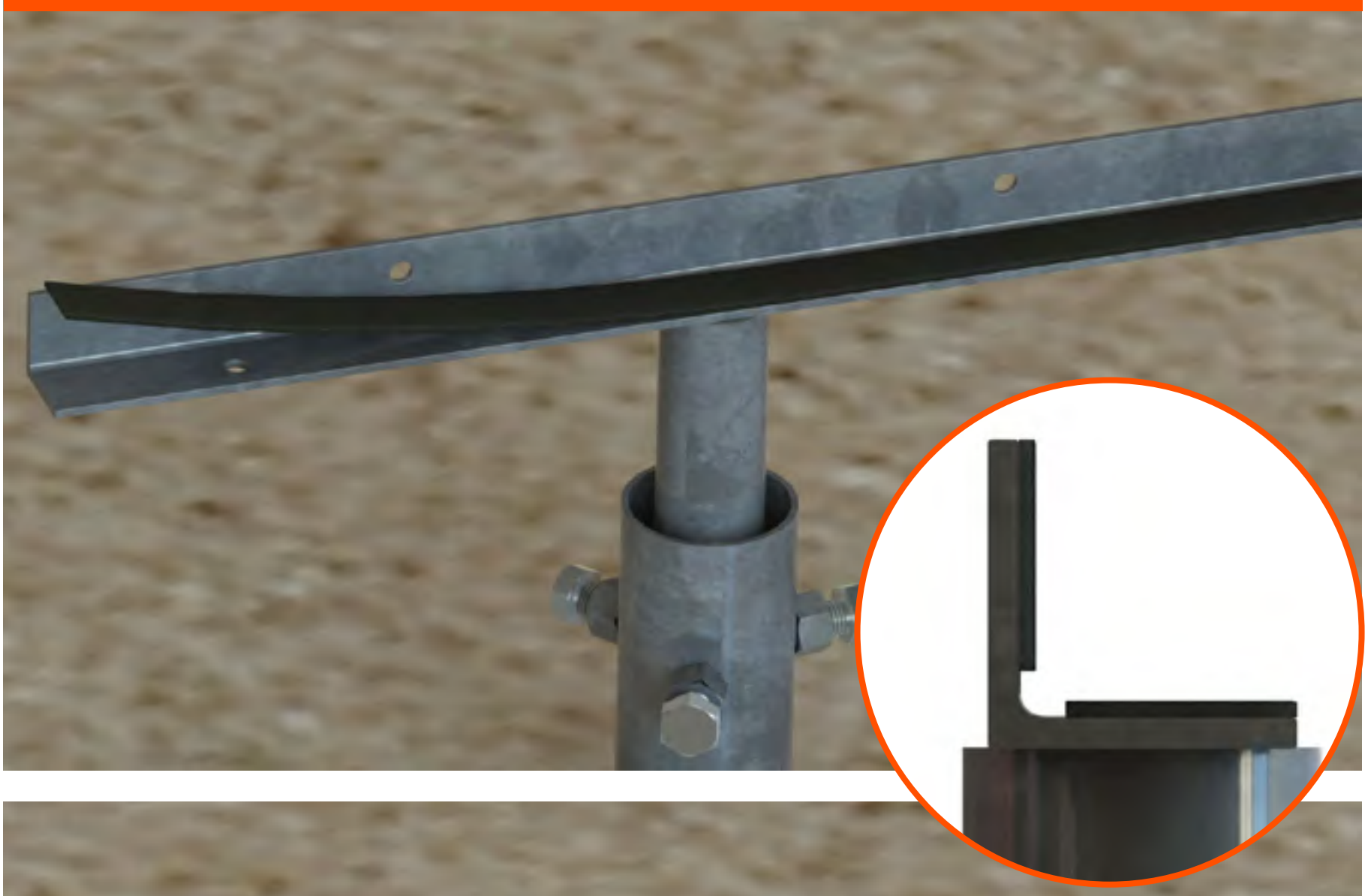
MOUNTING INSTRUCTIONS

KNIFE

EPDM

T ADAPTER

Apply EPDM to the T Adapter



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MOUNTING INSTRUCTIONS

SPANNER

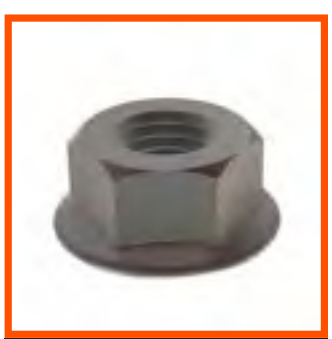
ALLEN KEY

WASHER

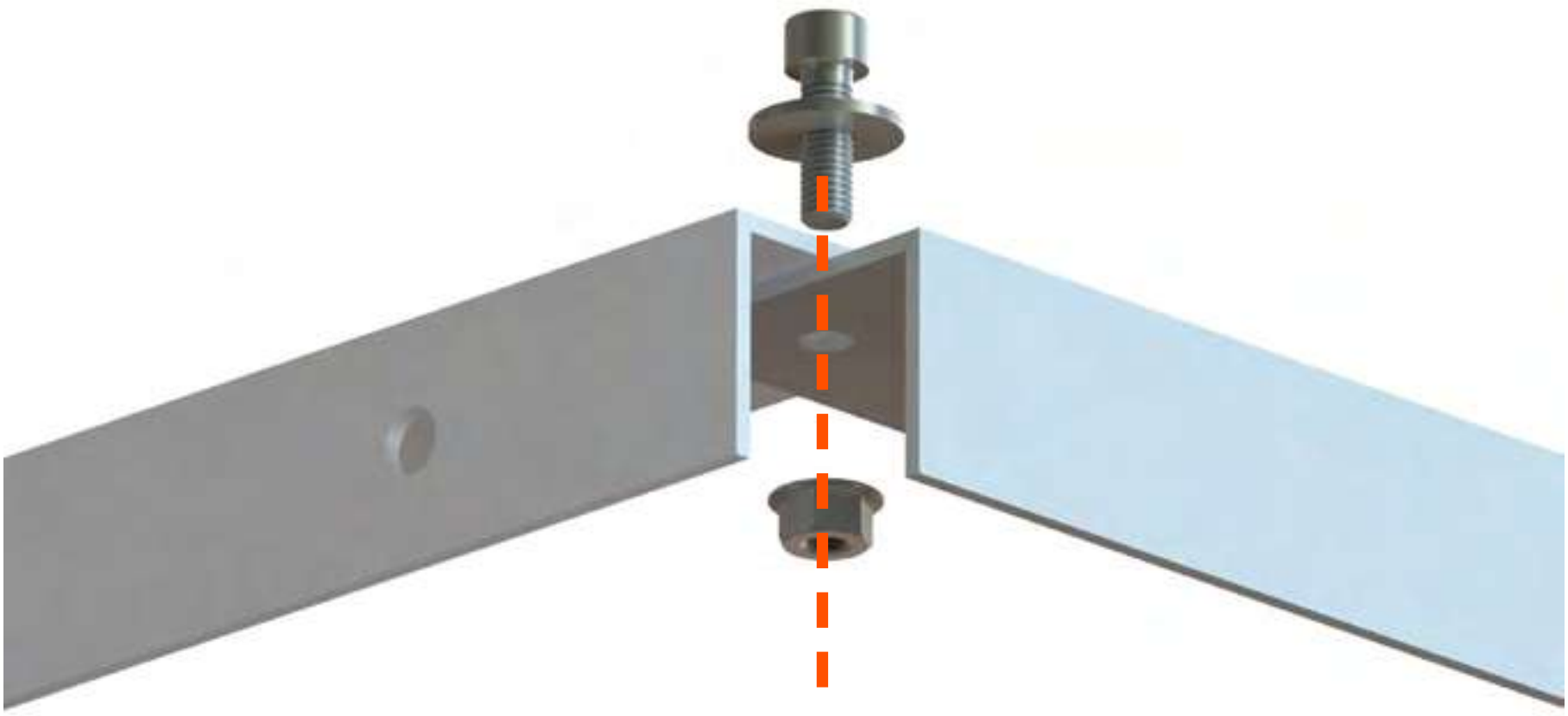
CYLINDER HEAD SCREW

Tighten the bolts and nuts of the Elevation Frame.

ELEVATION FRAME



M8 SERRATED NUT



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MOUNTING INSTRUCTIONS

SPANNER

ALLEN KEY

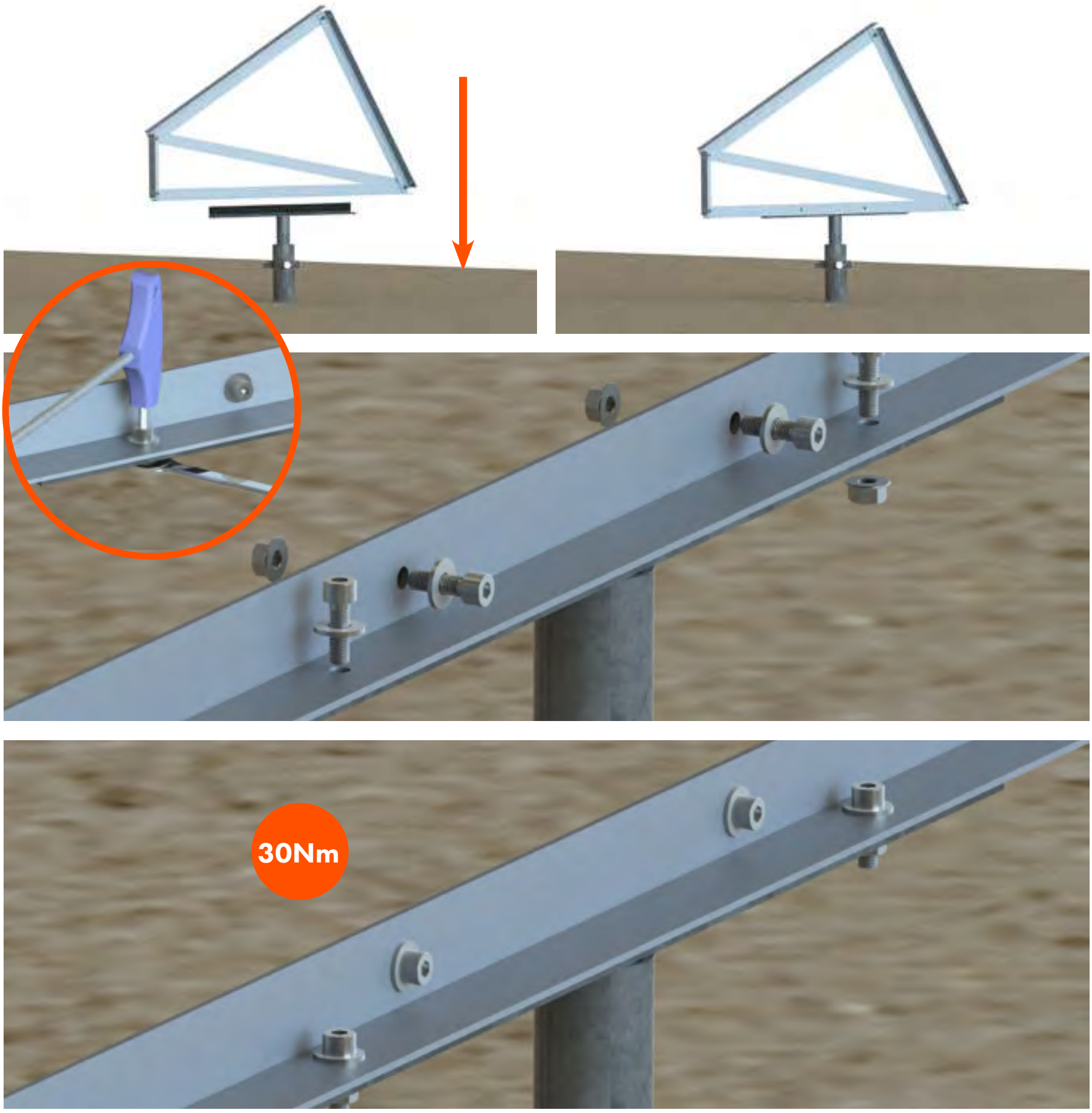
WASHER

CYLINDER HEAD SCREW

Attach the Elevation Frame to the T Adapter.

ELEVATION FRAME

M8 SERRATED NUT



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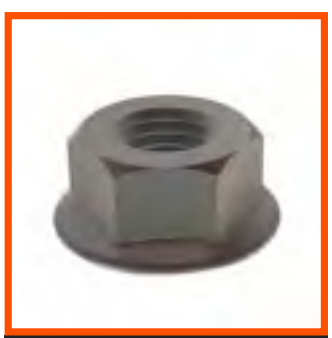
MOUNTING INSTRUCTIONS

SPANNER

MOUNTING RAIL

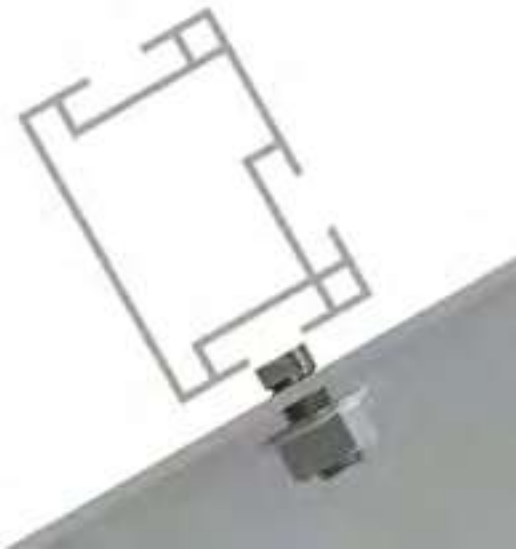
M10 T BOLT

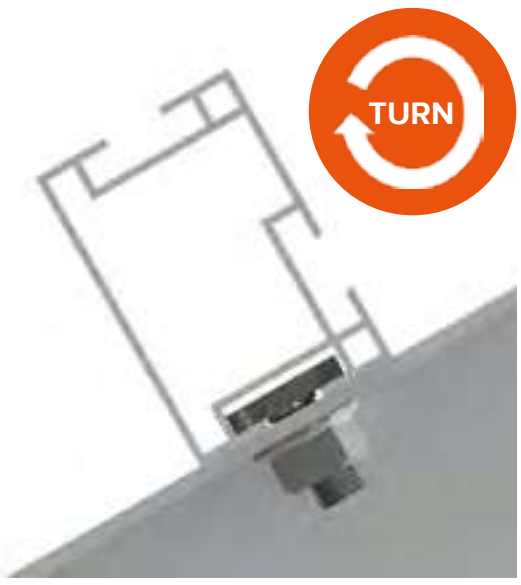


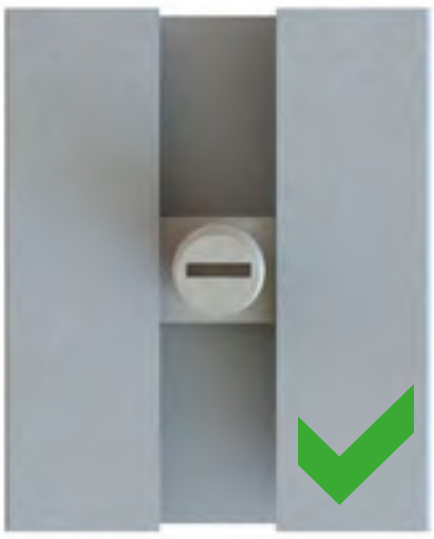
M10 SERRATED NUT

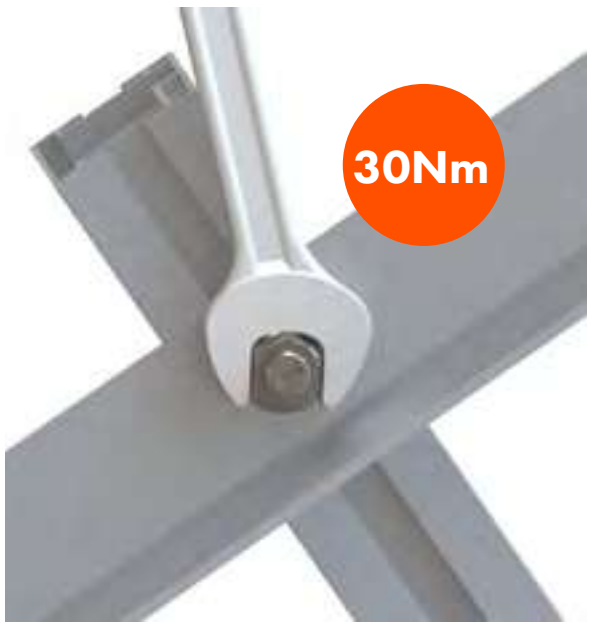
ELEVATION FRAME

Attach the Mounting Rail.
There will already be holes in the top of the Elevation Frame for attaching the Mounting Rail.









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MOUNTING INSTRUCTIONS

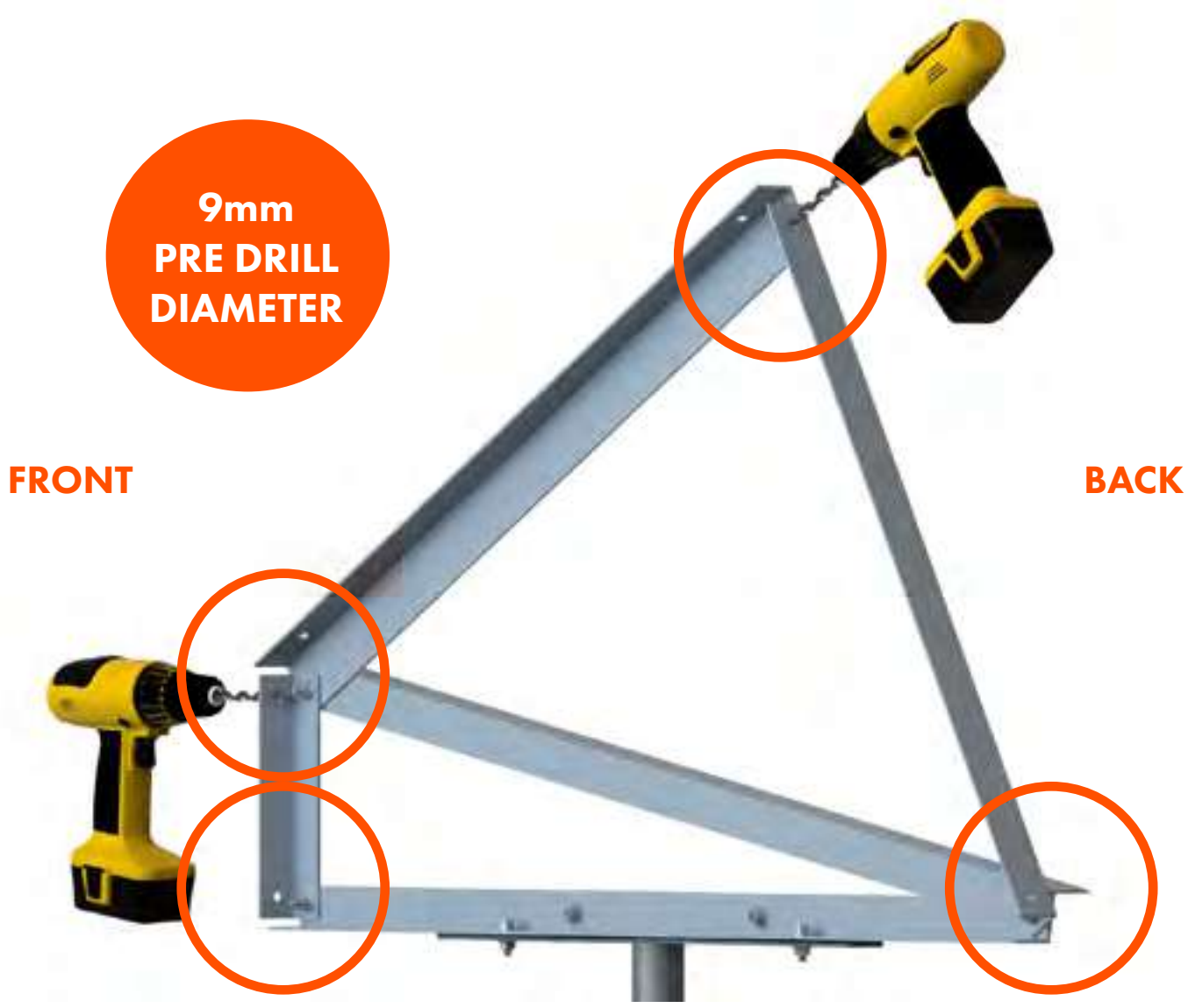
LAYOUT

BATTERY DRILL
NOT IMPACTOR

HSS DRILL BIT

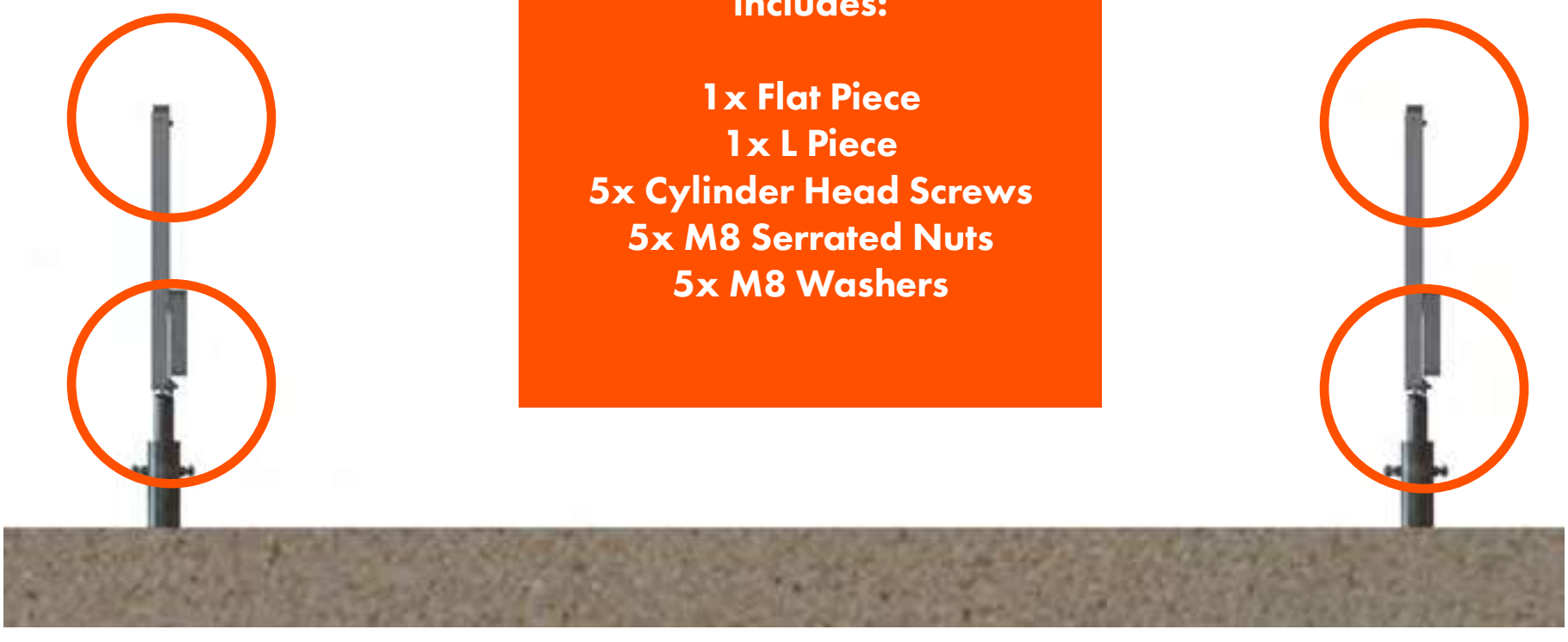
ELEVATION FRAME

Use the layout for the positions of the Wind Bracing.
Pre-drill 2x 9mm diameter holes at the front and at the back of the Elevation Frames.



The Wind Bracing Set includes:

1x Flat Piece
1x L Piece
5x Cylinder Head Screws
5x M8 Serrated Nuts
5x M8 Washers



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MOUNTING INSTRUCTIONS

ALLEN KEY

SPANNER

WIND BRACING SET

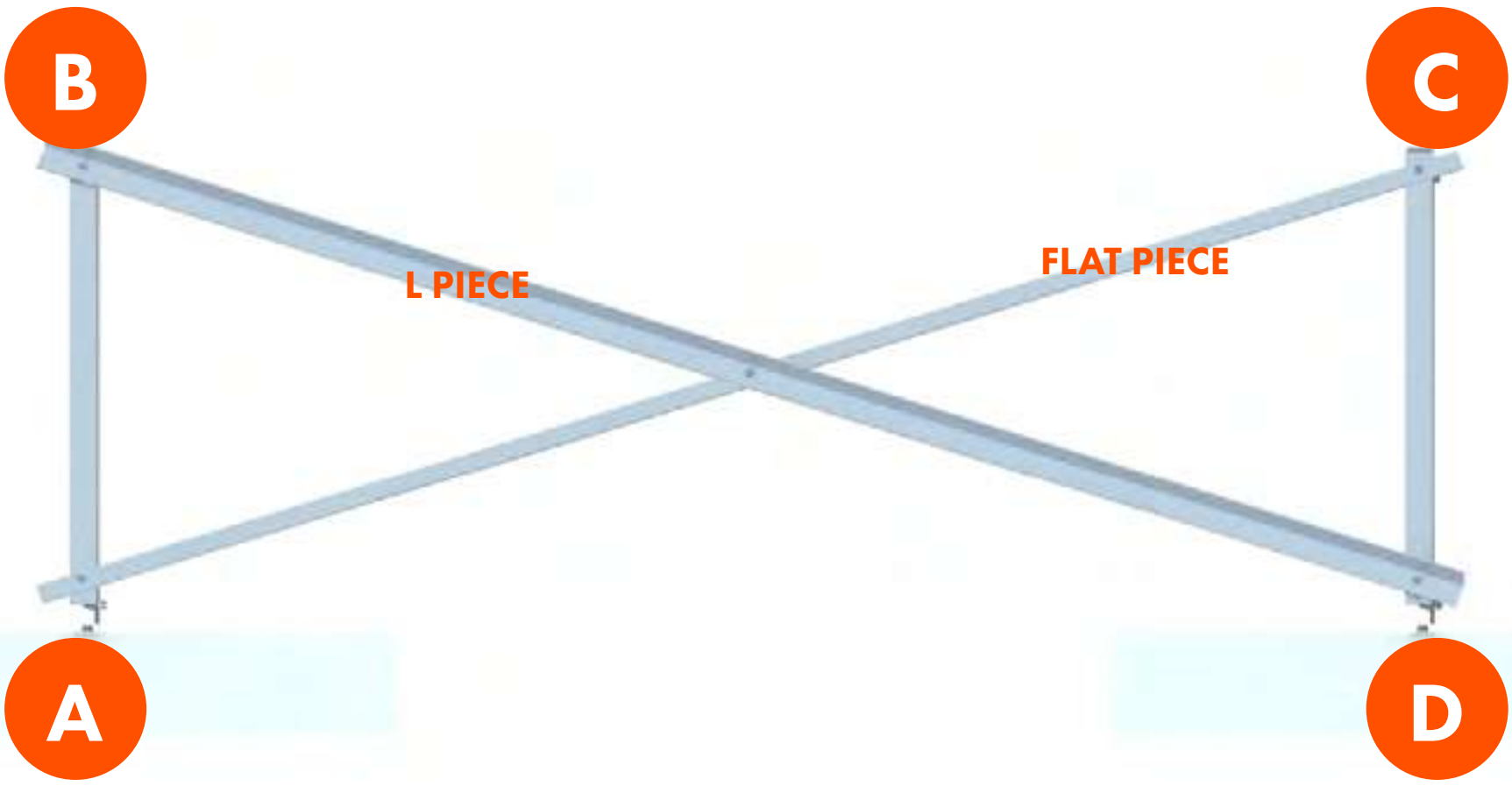
M8 SERRATED NUT

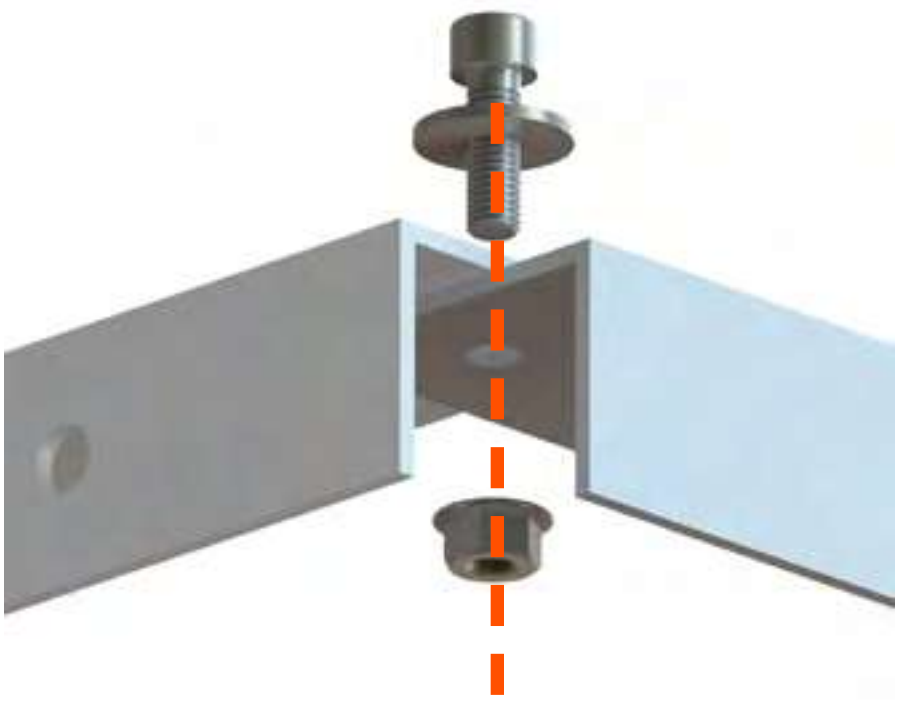
Place the Flat Piece so that it sits over holes A & C. Fix using a Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

Place the L Piece so that it sits over holes B & D. Fix using a Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

Fix the centre with a Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

M8 WASHER





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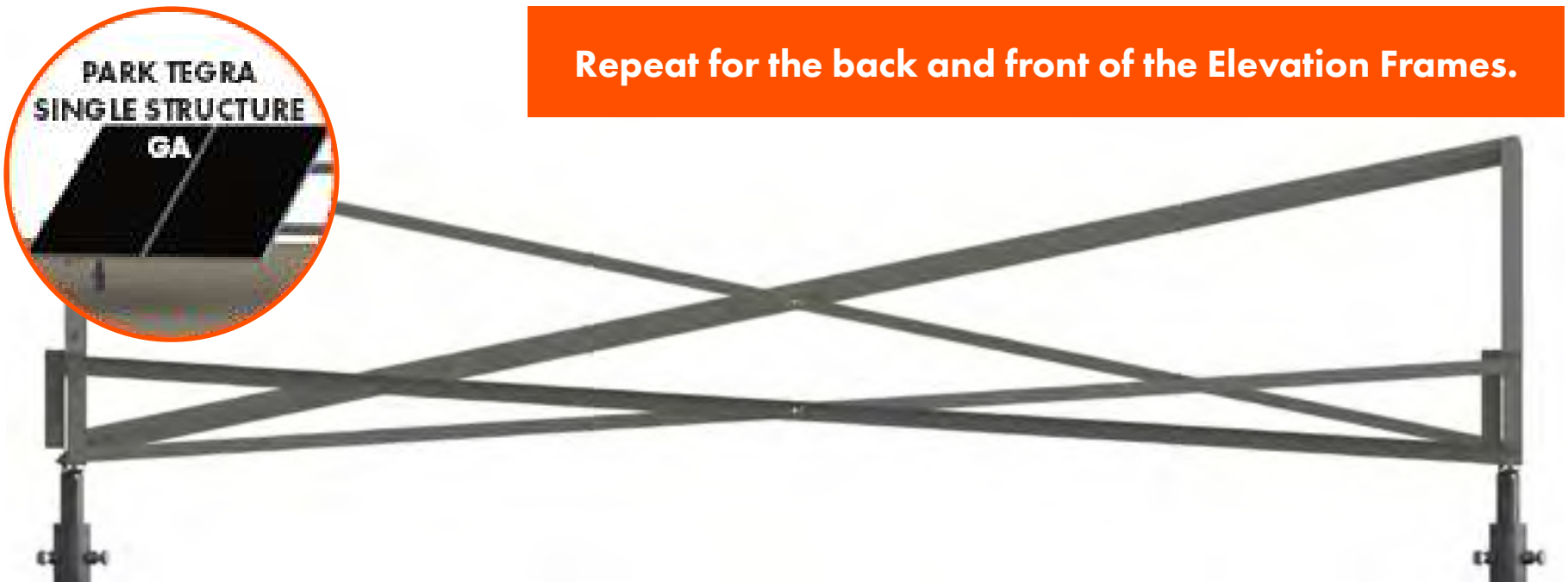
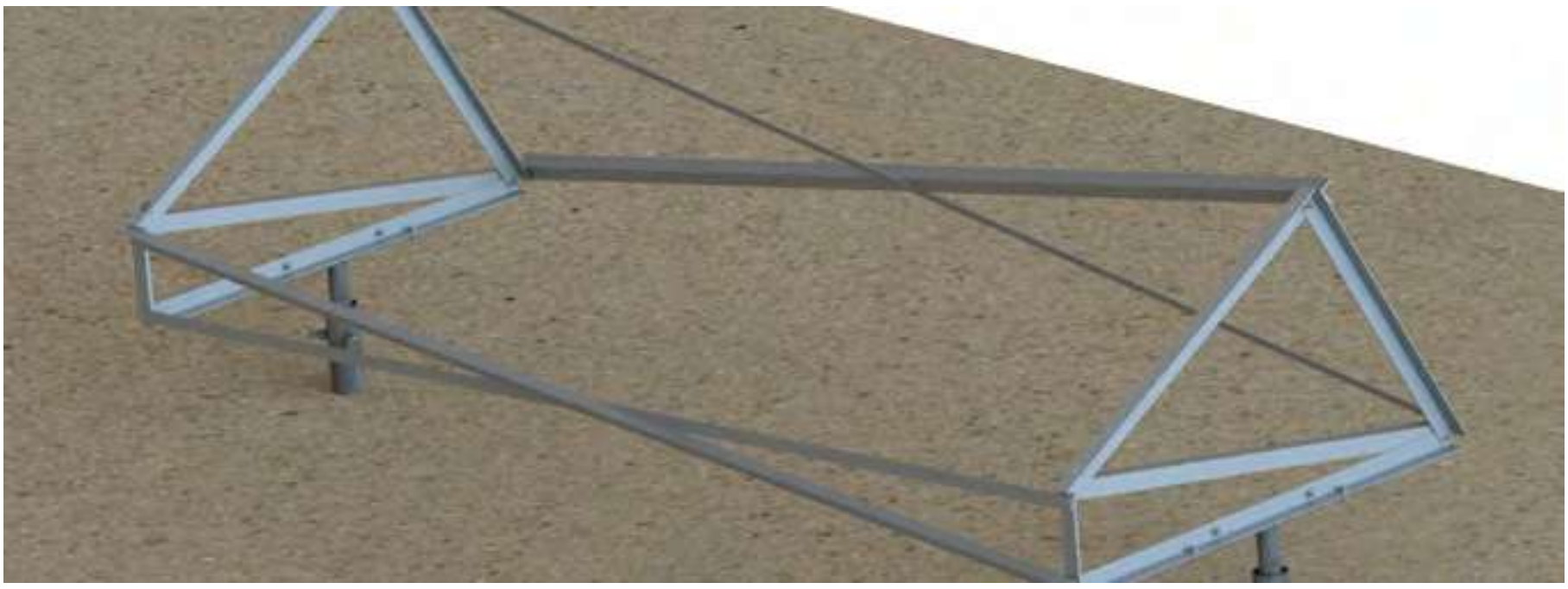


Repeat for the back and front of the Elevation Frames.



PORTRAIT ORIENTATION

LANDSCAPE ORIENTATION

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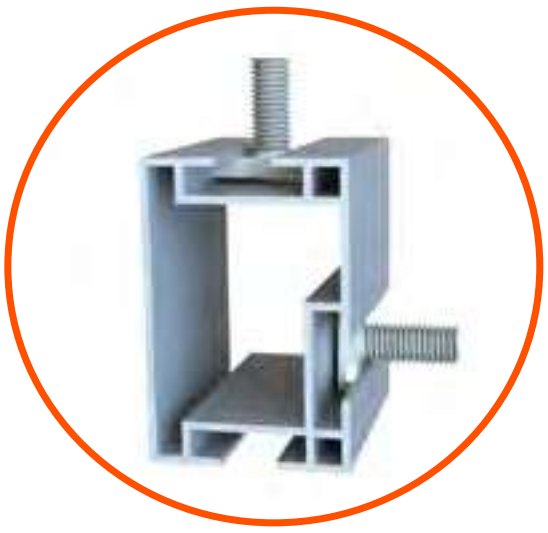
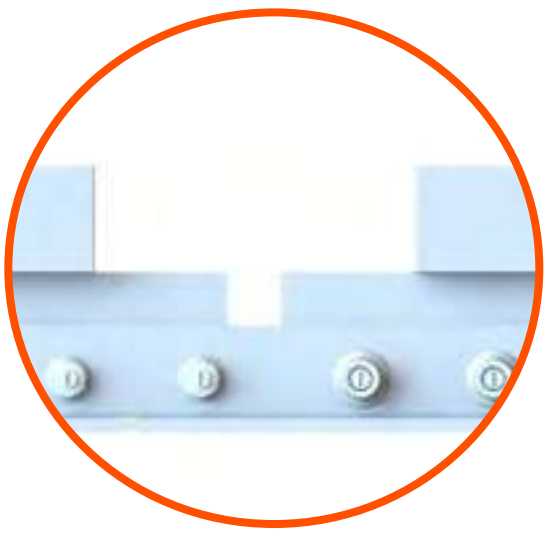
STANDARD TECHNICAL INSTRUCTIONS



USING MOUNTING RAIL CHANNELS

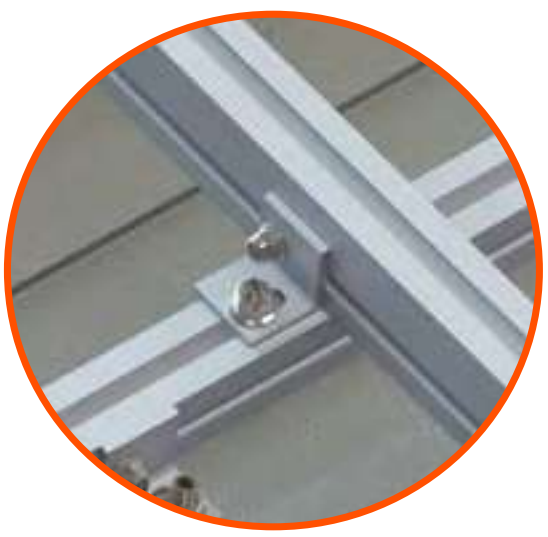
FIXING MOUNTING RAILS TOGETHER



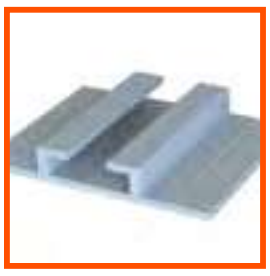
THERMAL EXPANSION

SOLAR PANEL CLAMPS

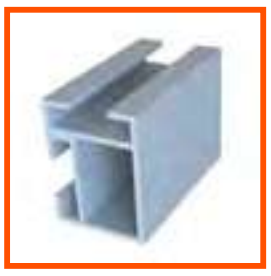
CROSS CONNECTORS



DOUBLE LAYER MOUNTING RAILS



MRD



DOMESTIC

40x40

40x60

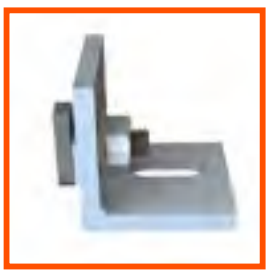
40x80

FIXED CONNECTOR (MRD)

FIXED CONNECTOR DOMESTIC

FIXED CONNECTOR 40x40, 40x60, 40x80

FLEXIBLE CONNECTOR



CROSS CONNECTOR

CROSS CONNECTOR (CR)

CORNER CLAMP

MIDDLE CLAMP

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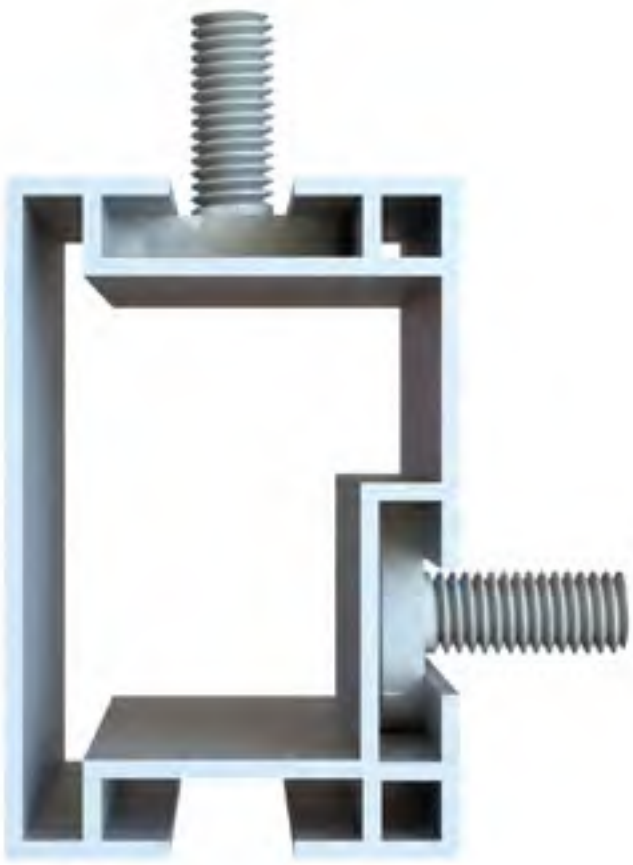
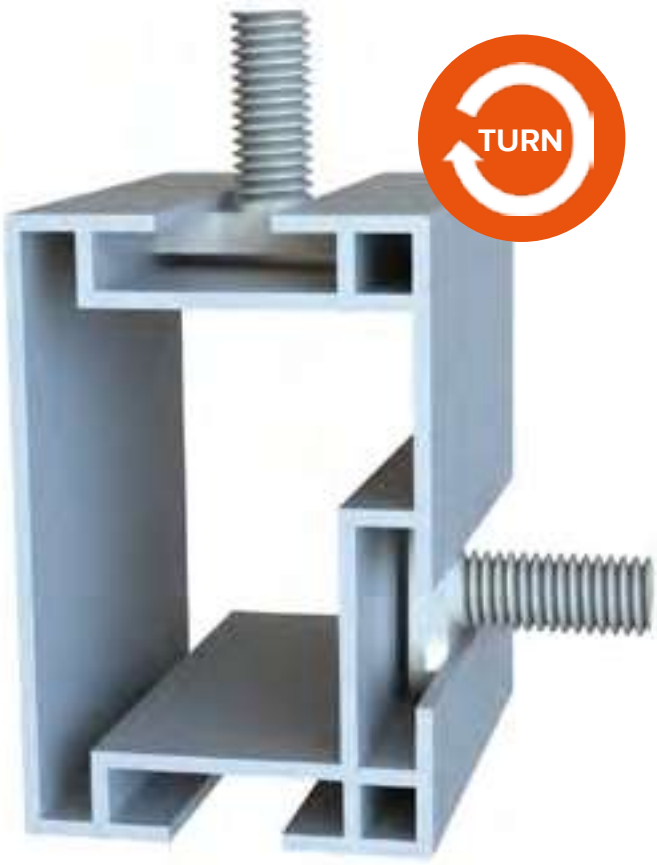
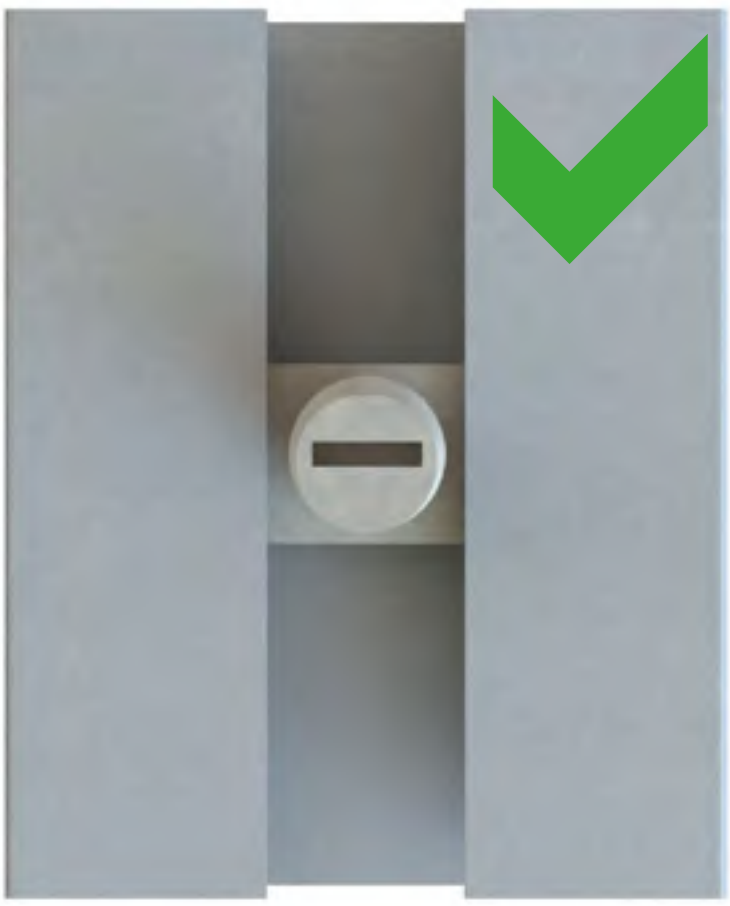
USING MOUNTING RAIL CHANNELS

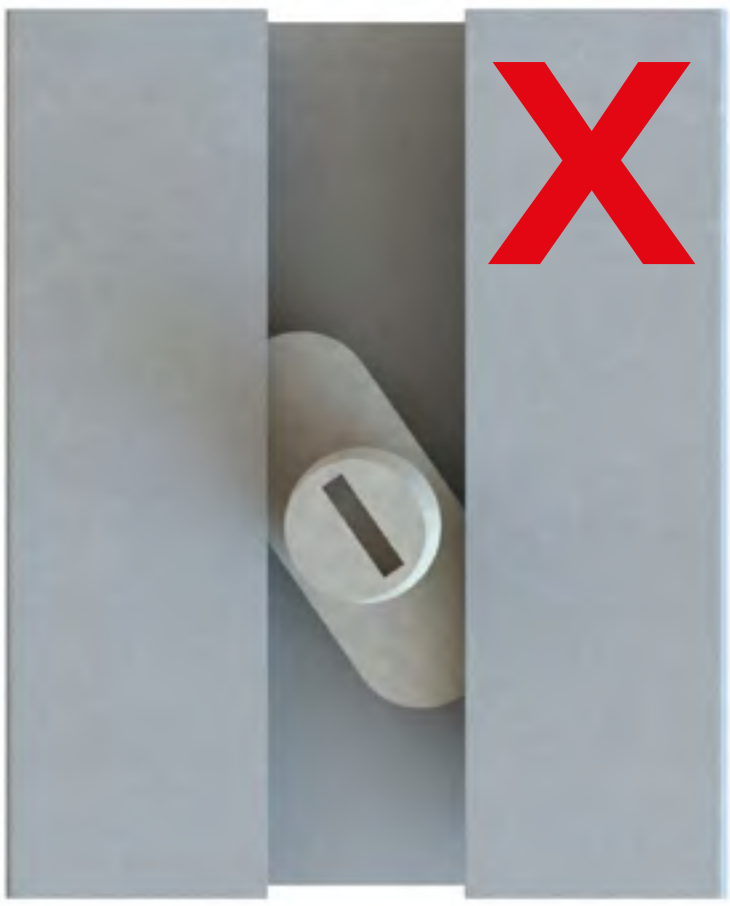
MOUNTING RAIL

T BOLT









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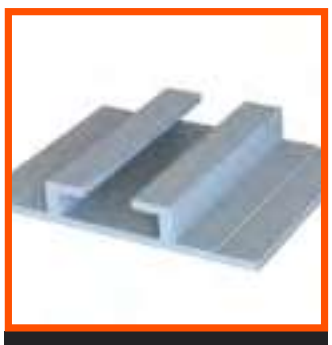
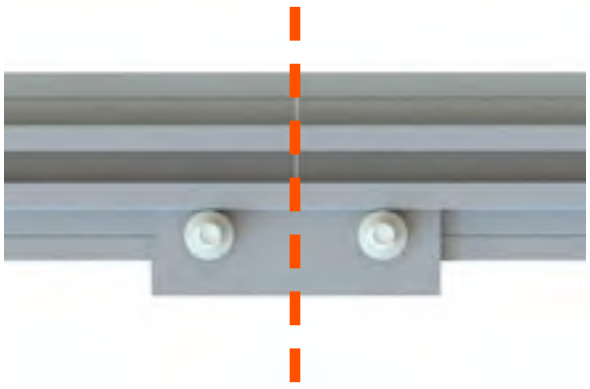
FIXING MOUNTING RAILS TOGETHER

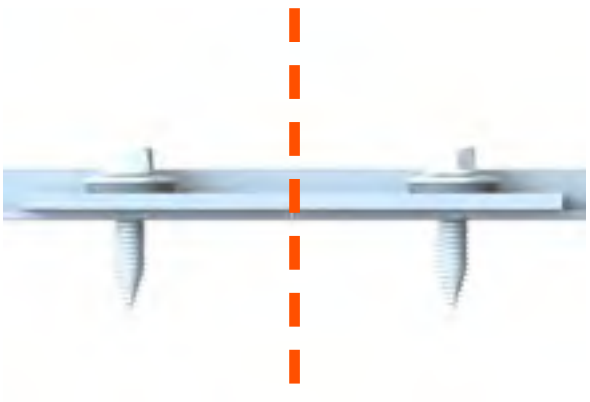


MRD

HEX SOCKET DRIVER

BATTERY DRILL
NOT IMPACTOR



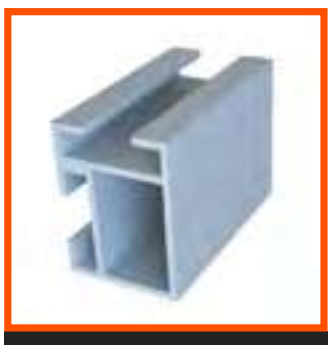


DO NOT OVERTIGHTEN OR
SQUASH THE WASHER

DO NOT USE IMPACTORS

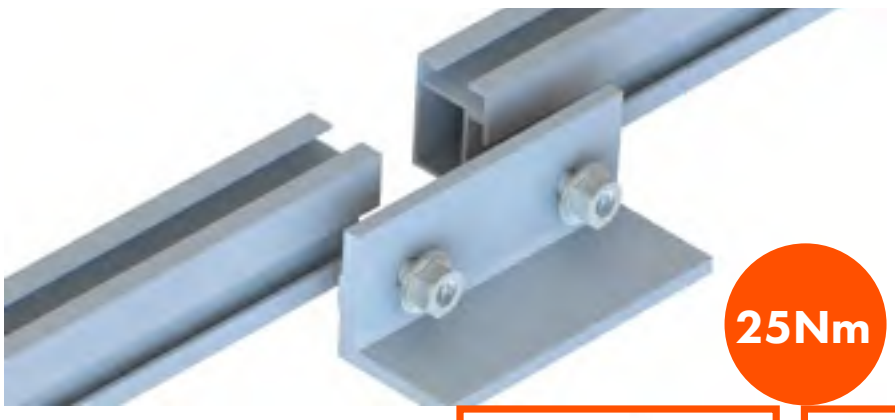
BACK

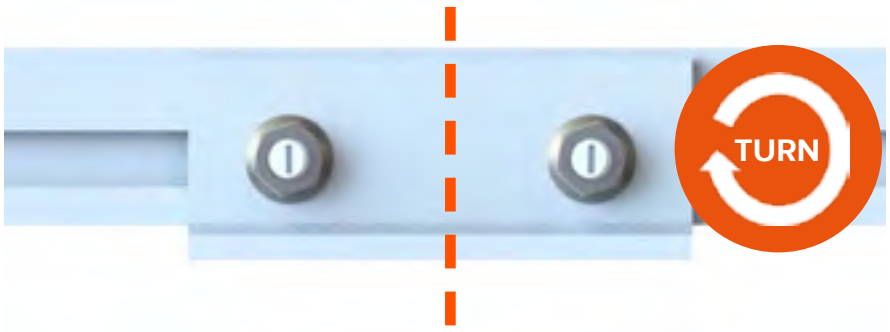
NEXT



DOMESTIC

SPANNER



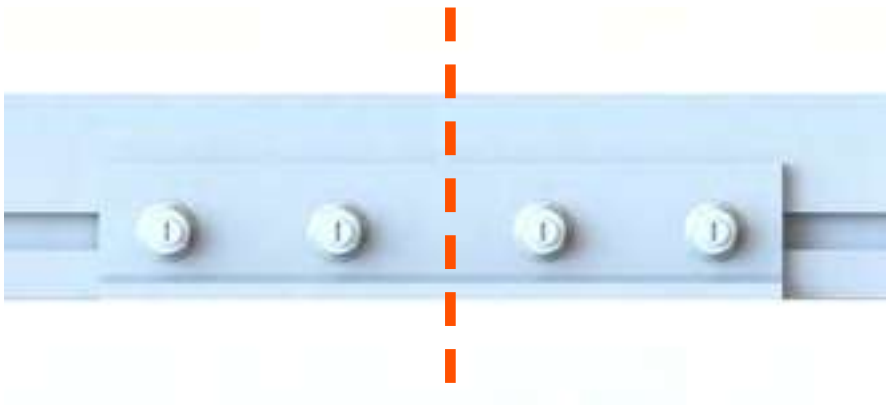


40x40

40x60

40x80

SPANNER



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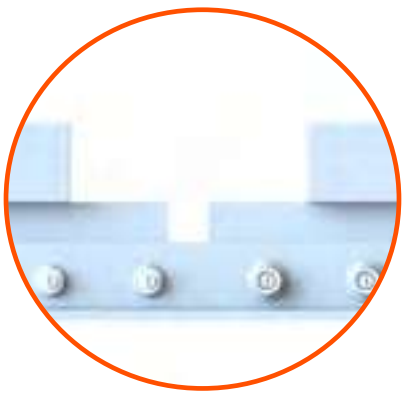
THERMAL EXPANSION



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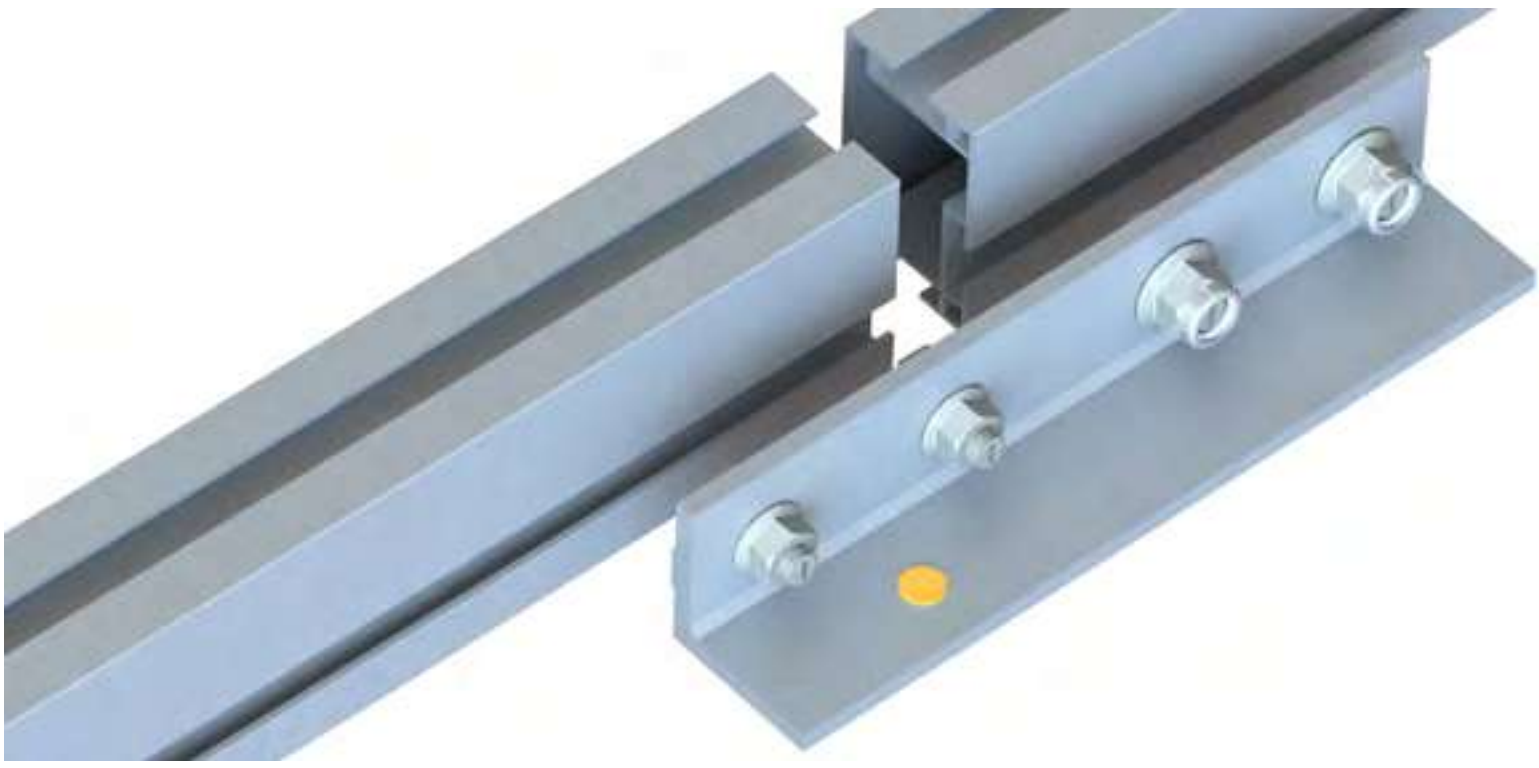

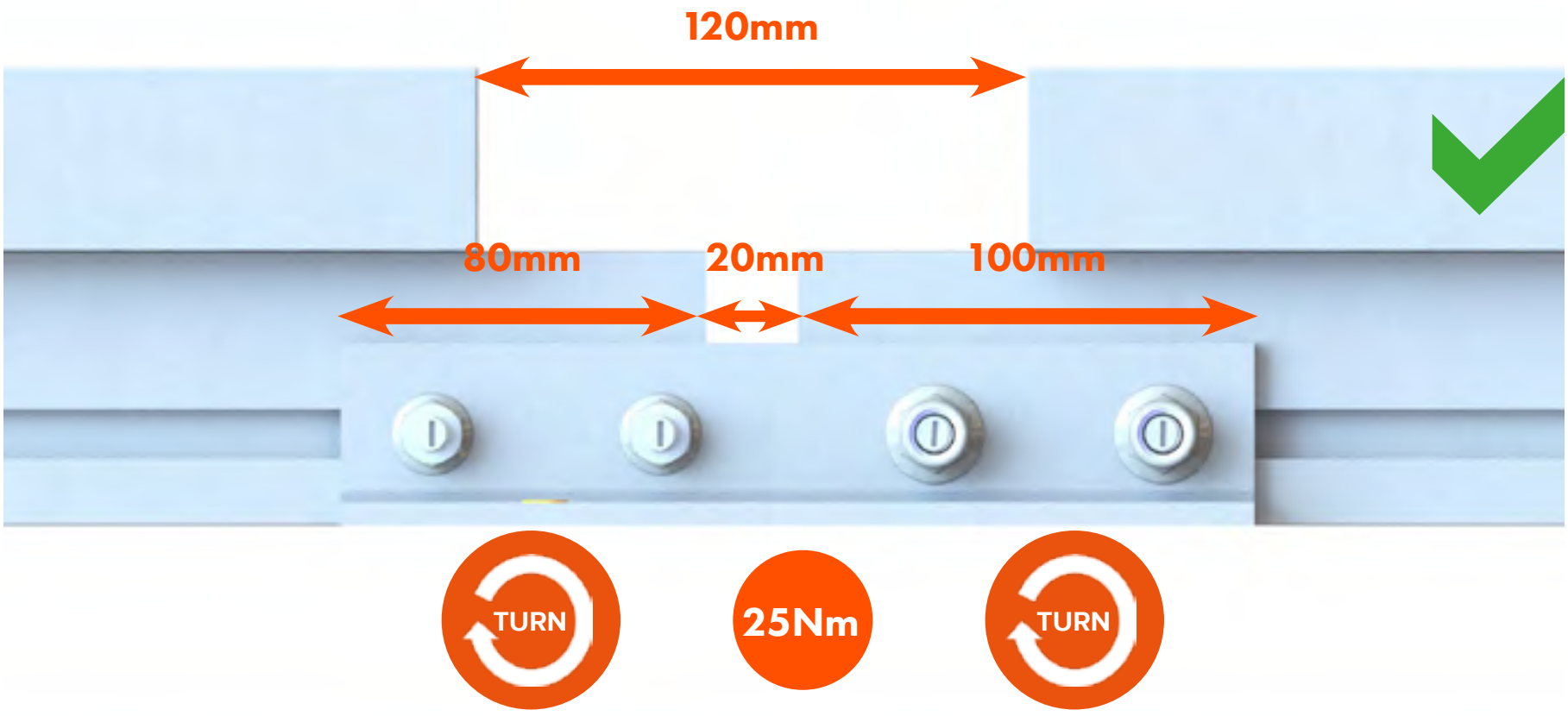

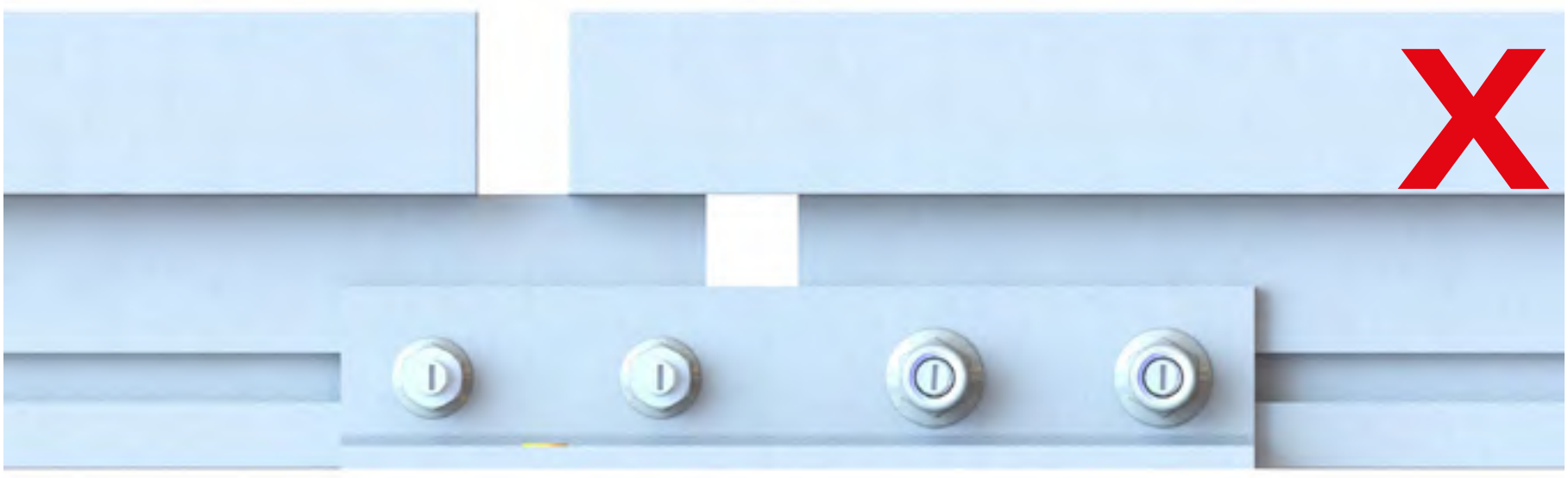

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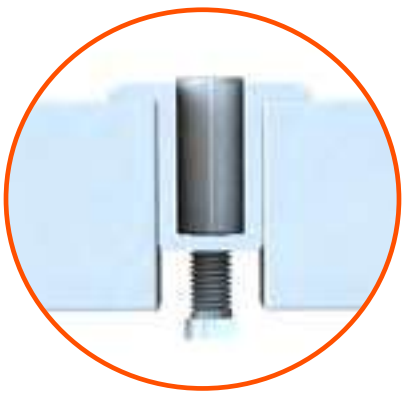
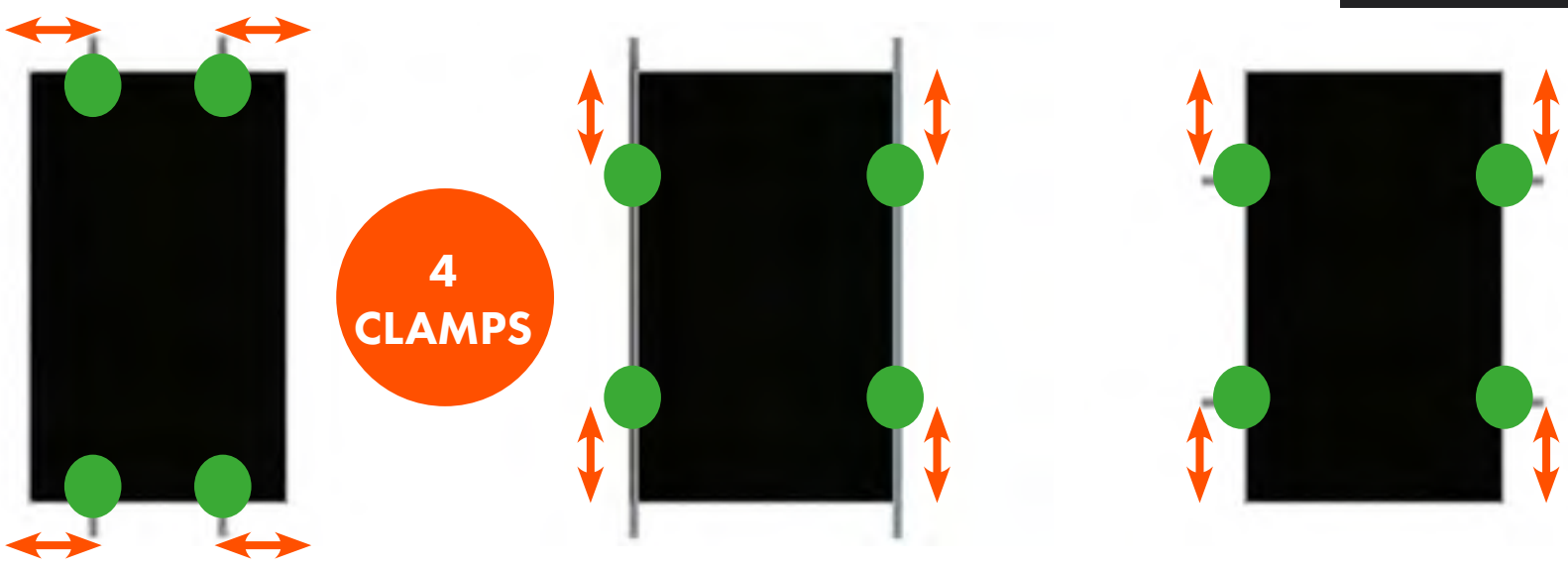
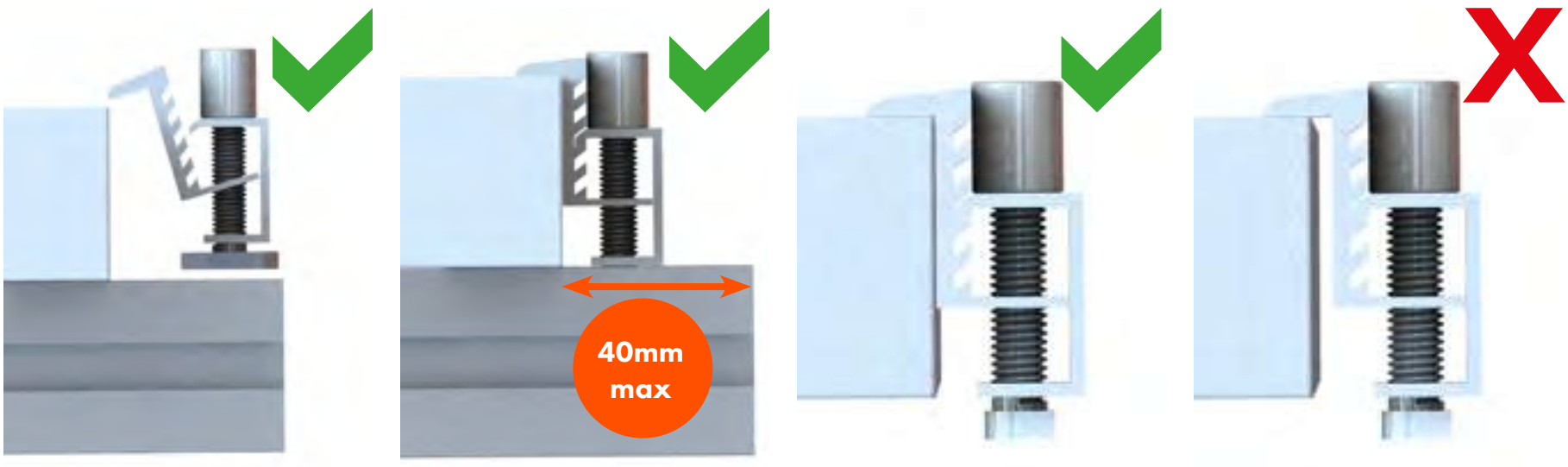
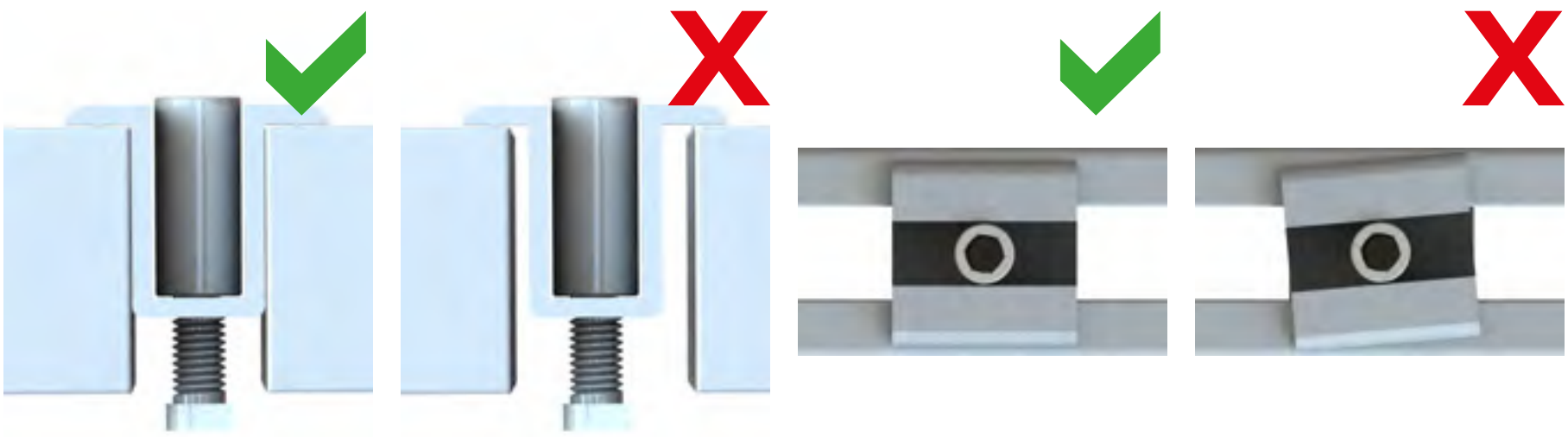
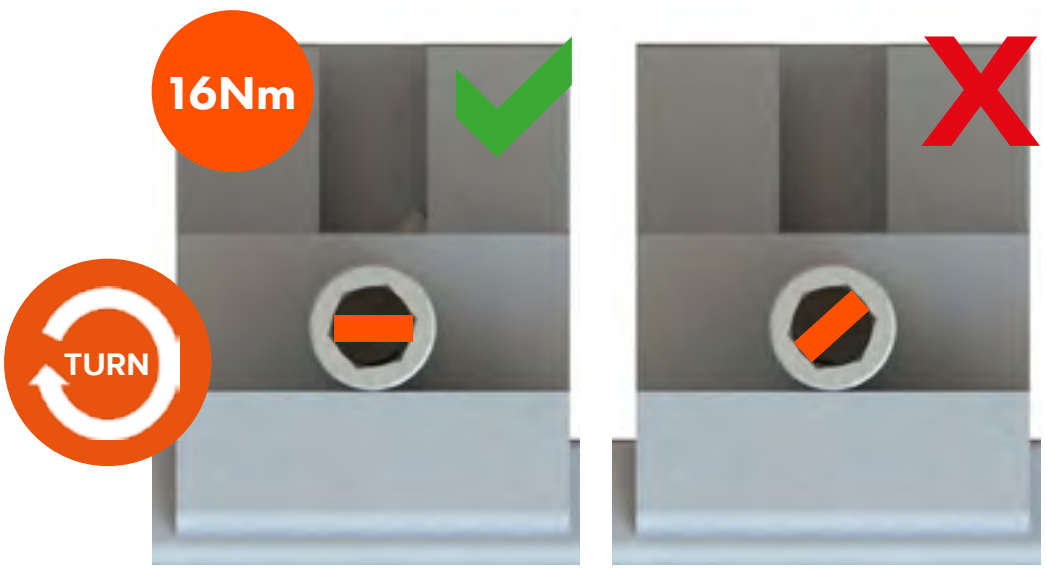
SOLAR PANEL CLAMPS











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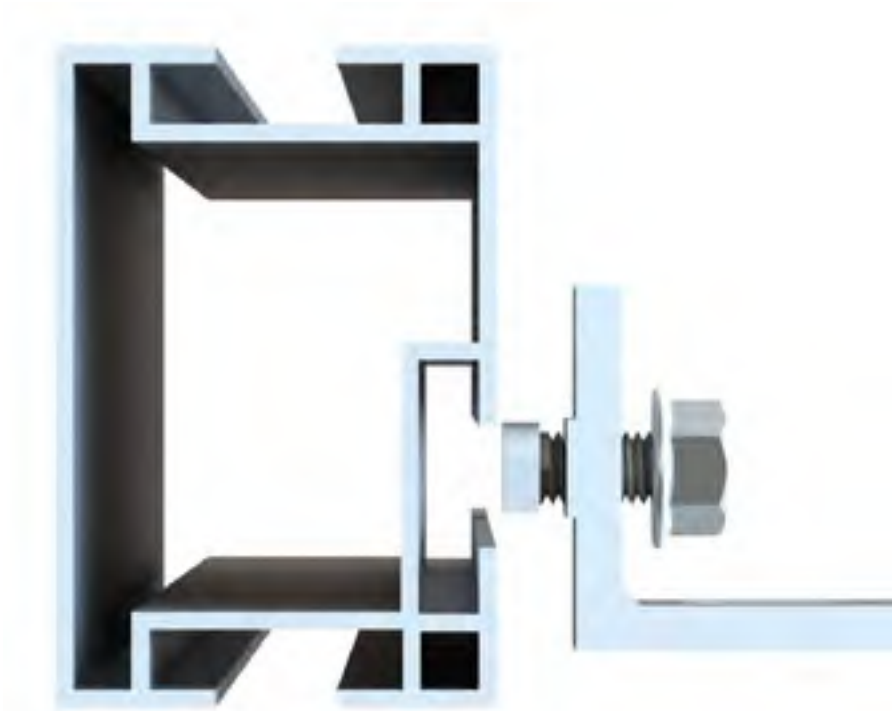
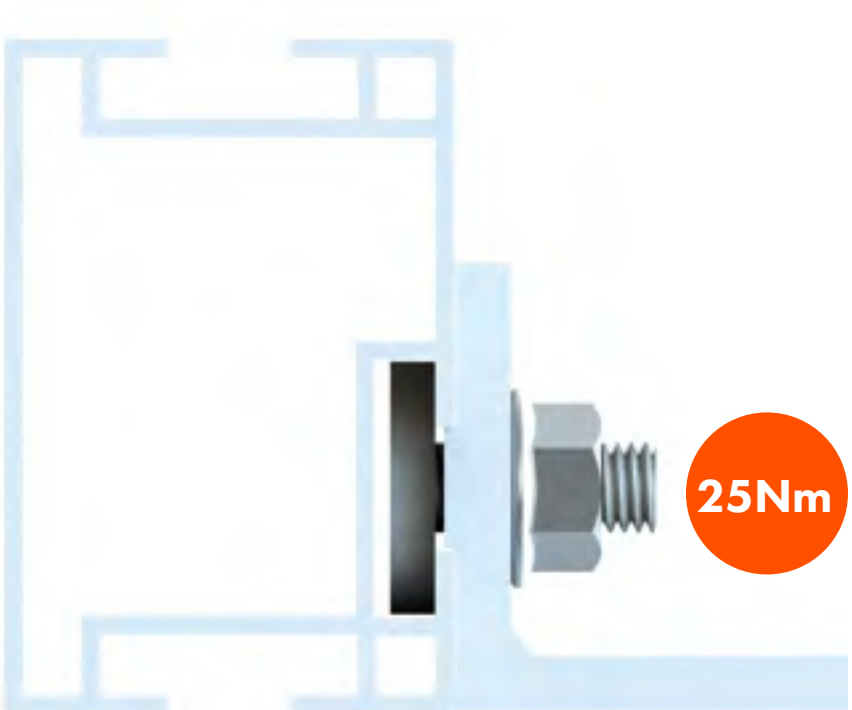
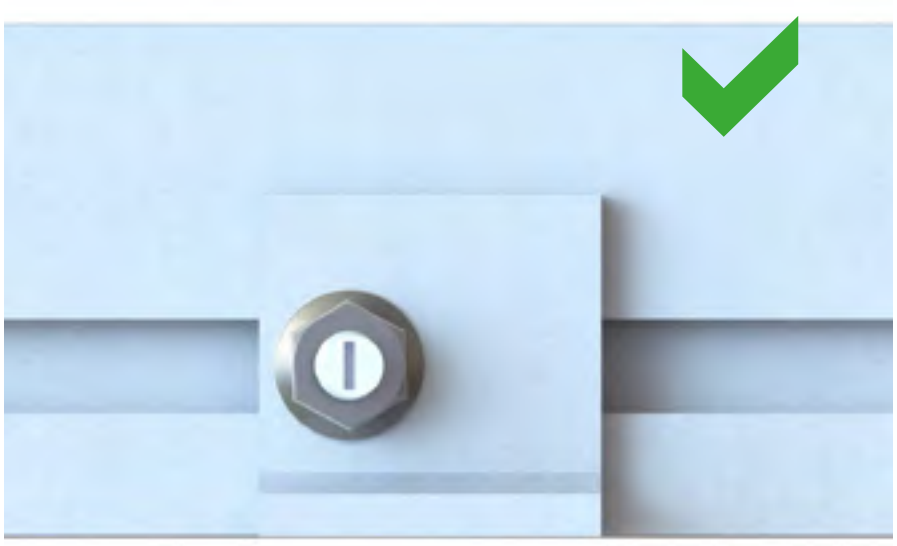
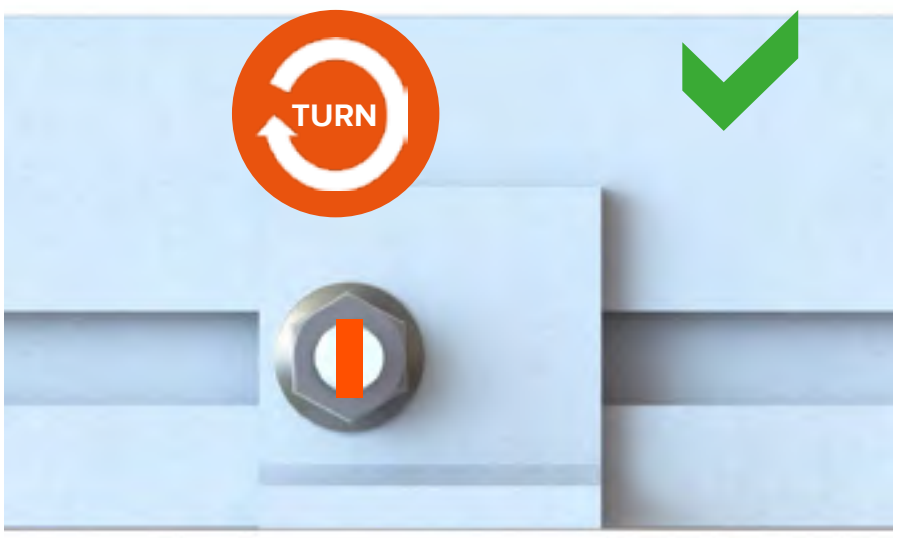
CROSS CONNECTOR









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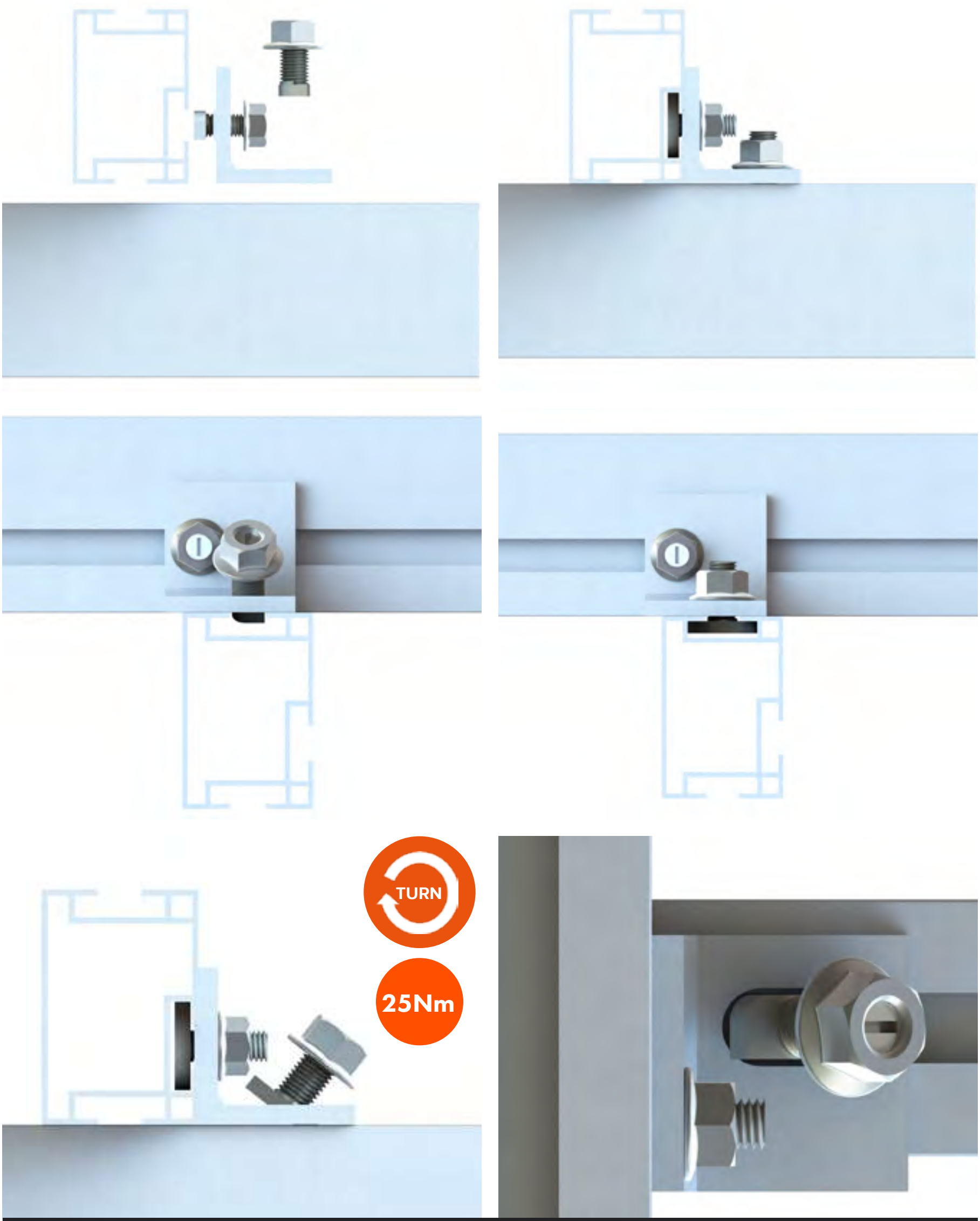
DOUBLE LAYER MOUNTING RAIL

CLICK HERE TO GO BACK TO PAGE 84

SPANNER



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