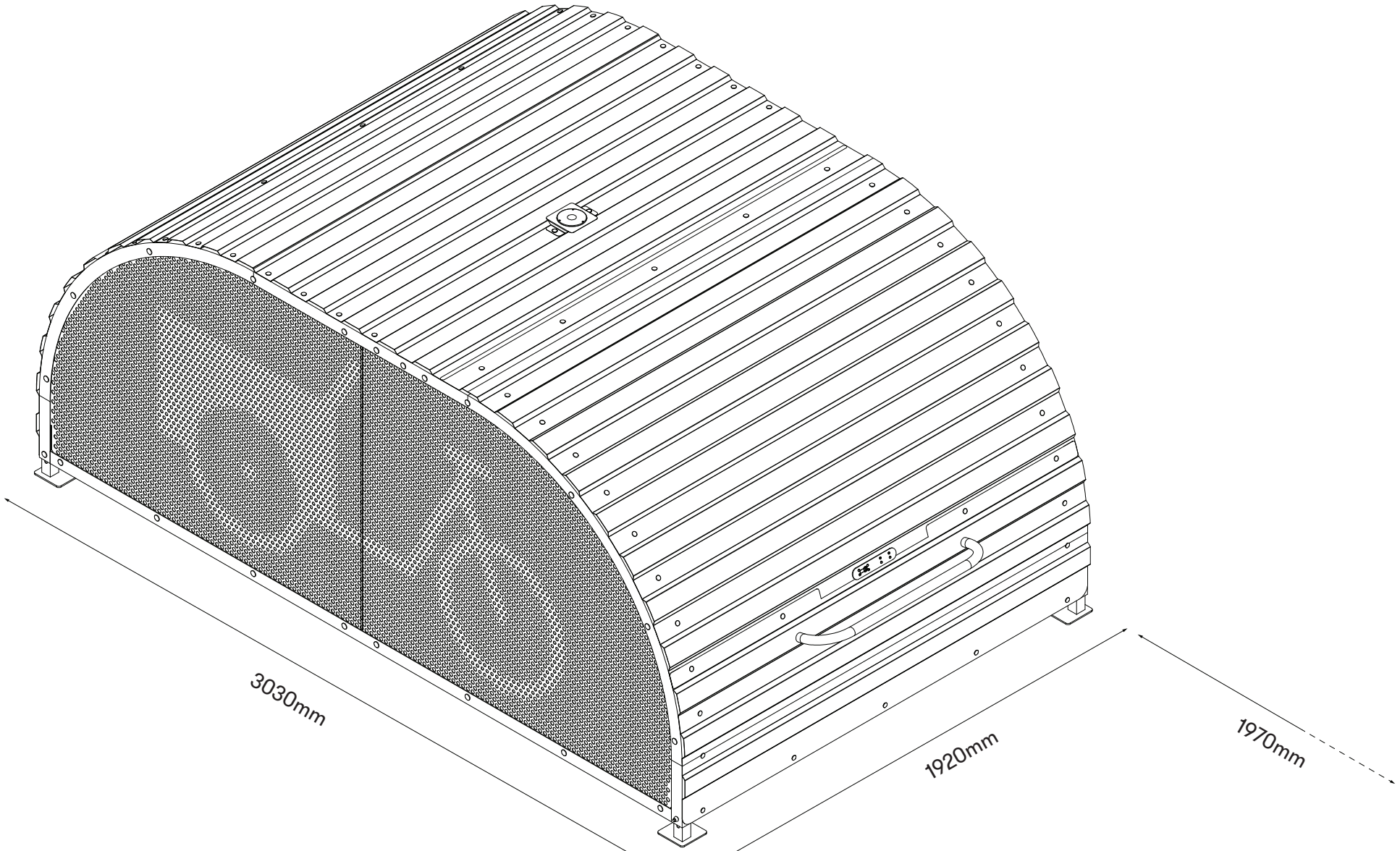
Cargo Bikehangar

Assembly instructions / Parts

cyclehoop



Before Assembly

Cyclehoop recommend that Cargo Bikehangars are assembled by at least two technicians with mechanical/engineering experience. Read this document carefully before assembling this product. Cyclehoop do not accept responsibility for any damage, injury or cost incurred as a result of improper assembly.

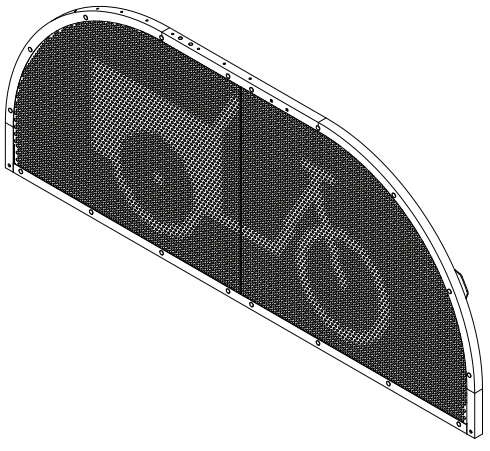
We recommend that Cargo Bikehangars are installed on robust masonry surfaces such as asphalt or concrete with a foundation depth of minimum 120mm. Installation on flat, level ground is preferred. The Cargo Bikehangar should be assembled at the installation site.

Ensure the installation site includes a minimum of 1970mm of clear space in front of the door, this allows cycles to be loaded in and out of the unit conveniently.

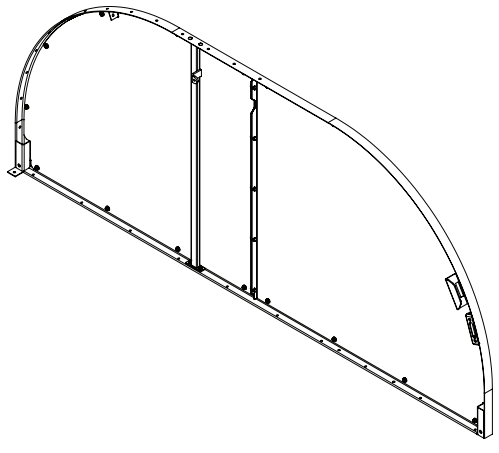
Cargo Bikehangar

Assembly instructions / Parts

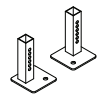
cyclehoop



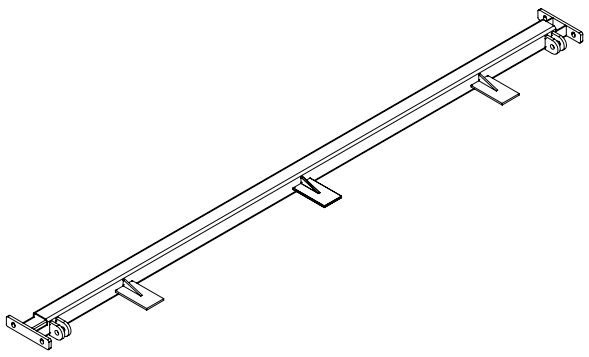
Side Panel Left



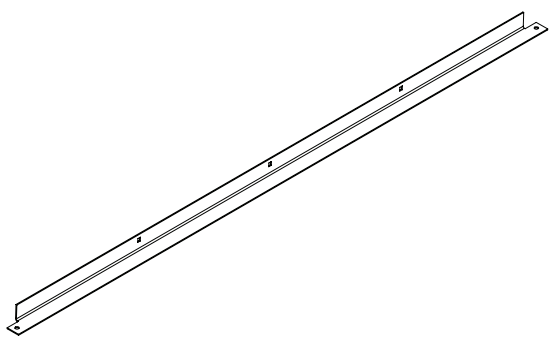
Side Panel Right



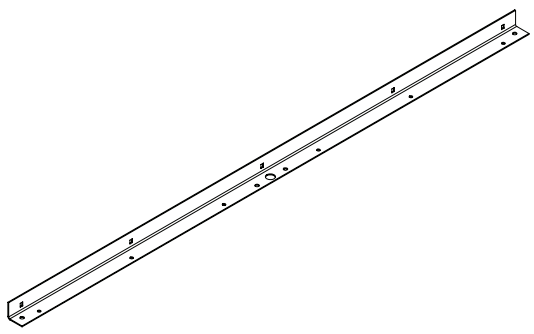
Feet A & B x2



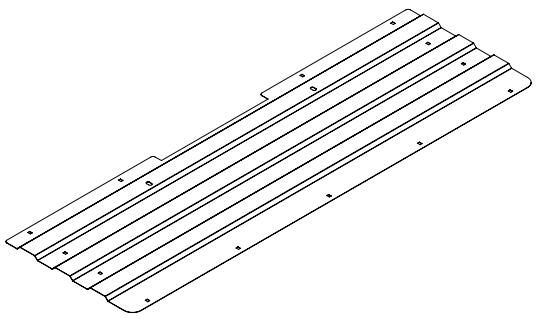
Top Beam



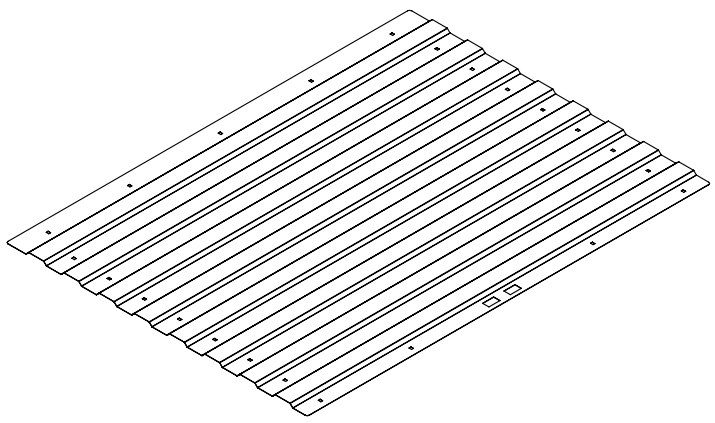
Middle Beam



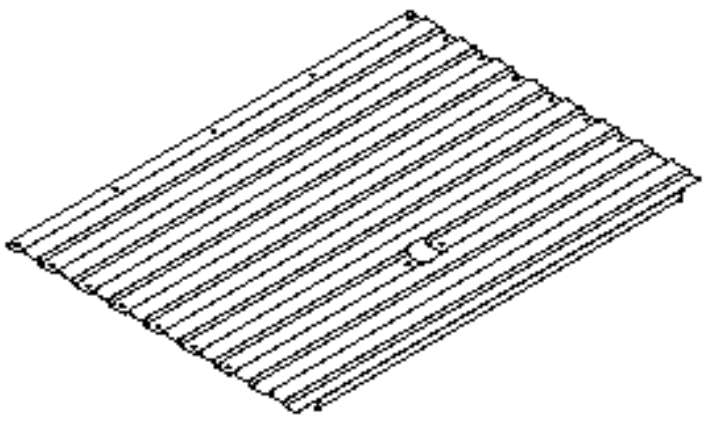
Bottom Beam



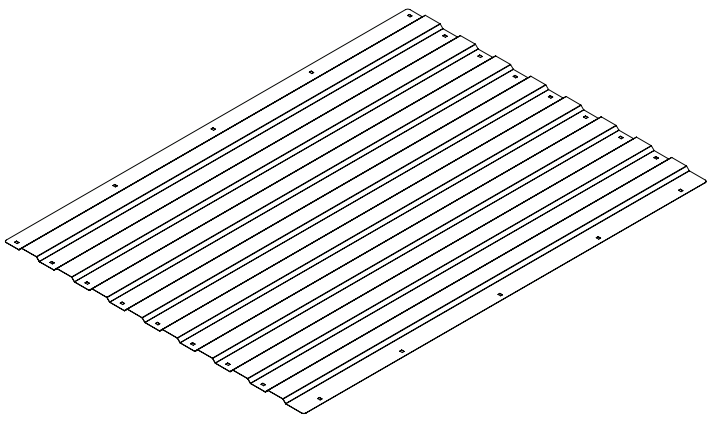
Roof panel 1



Roof panel 2



Roof panel 3

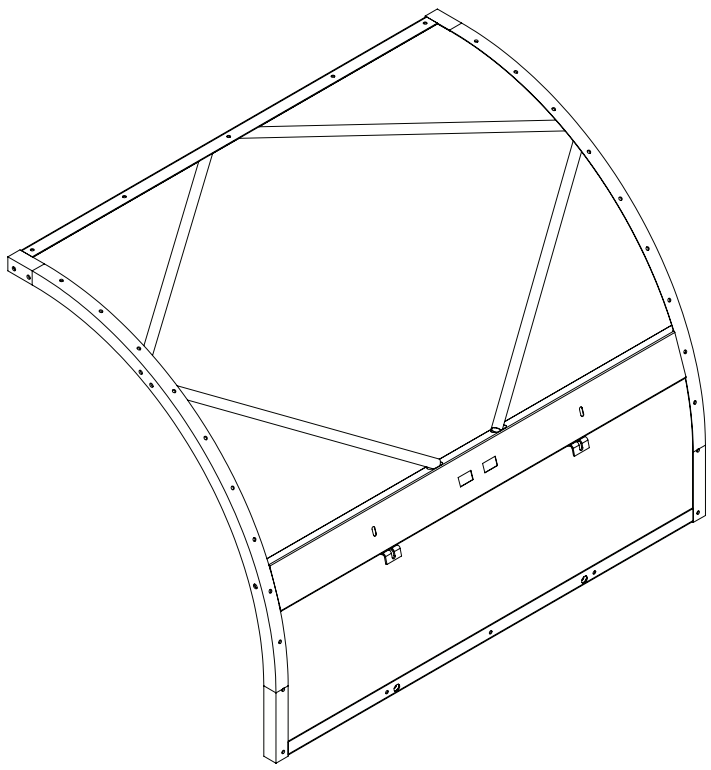


Roof panel 4

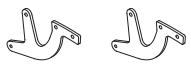
Cargo Bikehangar

Assembly instructions / Parts

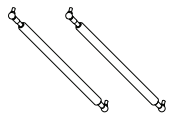
cyclehoop



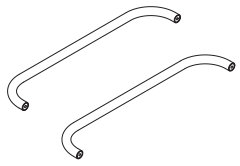
Door frame



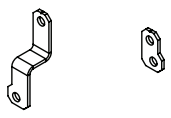
Door hinge x2



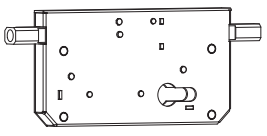
Gas spring x2



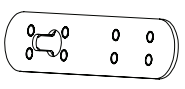
Door handle x2



Lock bracket x2

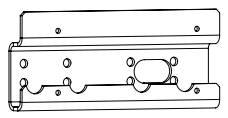


Locking mechanism

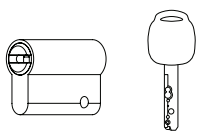


Lock Face Plate

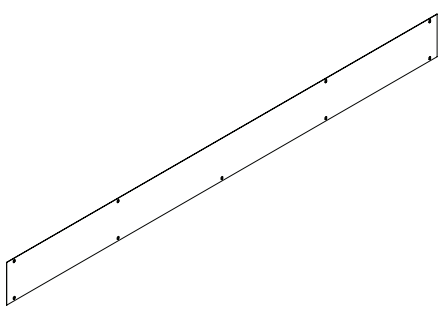
Face plate sticker



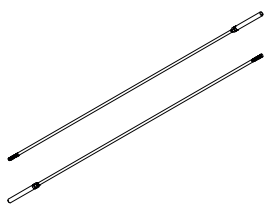
Lock back plate



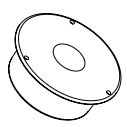
Lock cylinder and key



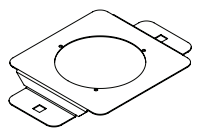
Lock channel cover plate



Locking Rod x2



SolarEye Roof Light



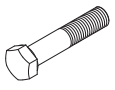
SolarEye Mount

Cargo Bikehangar

Assembly instructions / Parts

cyclehoop

M12 × 60mm
Hex Bolt



x2

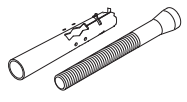
M12
Nylock Nut

x4

M12 x 30mm
Hex Bolt

x4

M10 × 75mm Expanding
Ground Anchor

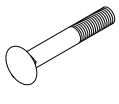


x4

M10 × 20mm
Square Head Bolt

x38

M10 × 65mm
Square Head Bolt



x4

M10 × 20mm
Hex Bolt

x6

M10 × 30mm
Square Head Bolt

x4

M10
Flange nut

x10

M10 × 30mm
Socket countersunk
Screw

x2

M10
Shear nut

x6

M8 × 20mm
Square Head Bolt

x70

M8
Rubber washer

x70

M8
Flange nut

x32

M8
Hex Nut

x6

M8 × 16mm
Hex Bolt

x2

M6 × 12mm
Torx Security Button
Head Machine Screws

x9

M6
Hex Nut

x8

M6 × 15mm
Nutsert

x9

M5 × 20mm
Pan head screw

x4

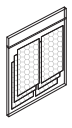
M5 × 30mm
Hex bolt

x1

Rivet 3.2 × 6.0
Dome head

x3

Sticker Pack



x1

Cargo Bikehangar

Assembly instructions

cyclehoop

Tools

17mm Socket

x2

15mm Spanner

Parts

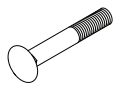
Left and Right Side panels
Feet A & B x2
Top Beam
Middle Beam
Bottom Beam

Fixings

M10
Shear nut

x2

M10 × 65mm
Square Head Bolt



x4

M10
Flange nut

x8

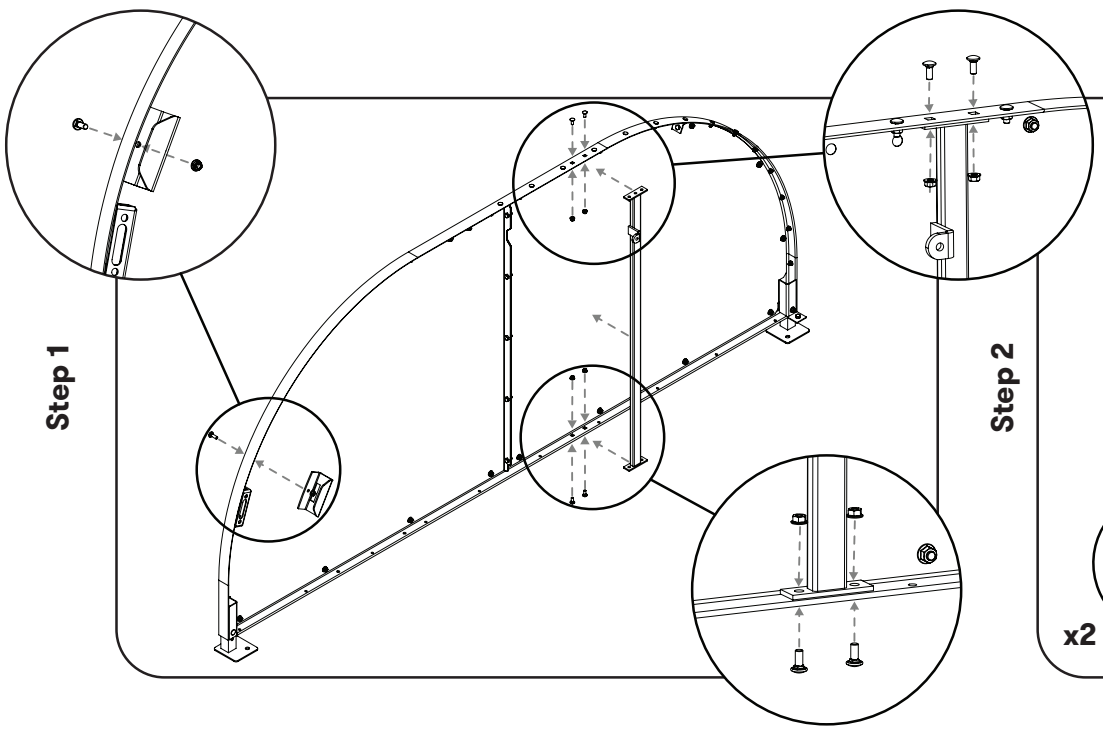
M10 × 20mm
Hex Bolt

x4

M10 × 30mm
Square Head Bolt

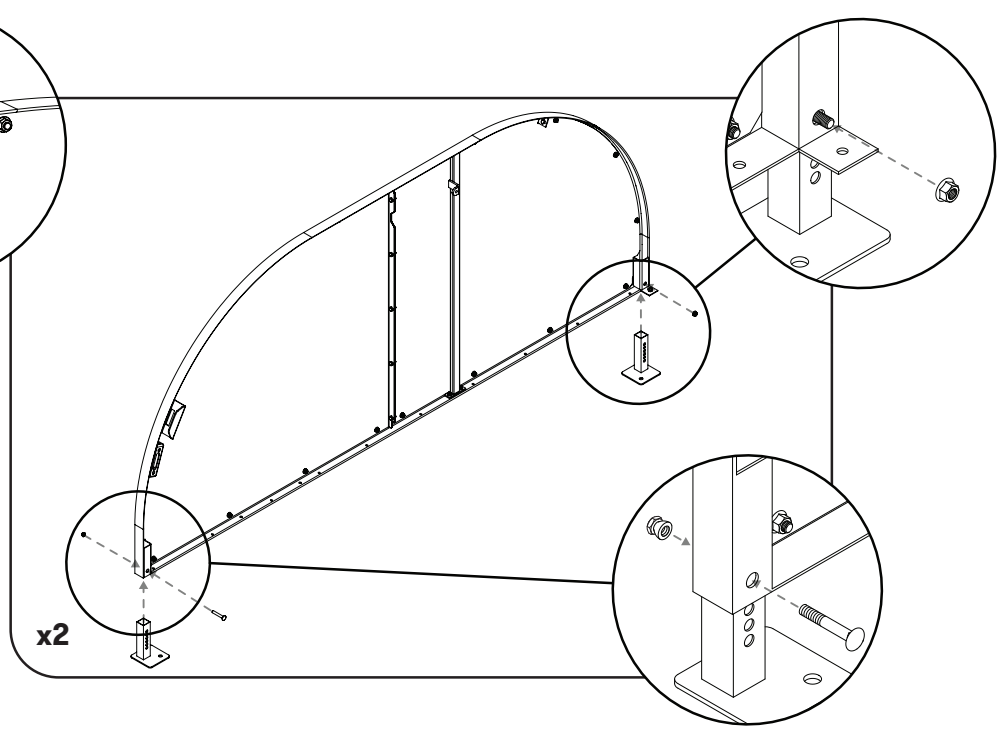
x4

Step 1



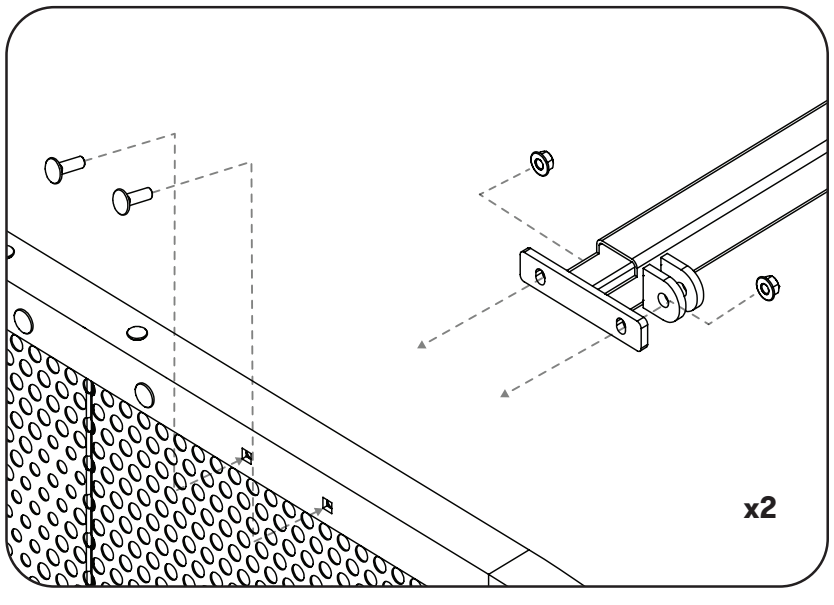
Insert a M10×30mm coach bolt through the square cut out on the exteriror side of the panel, tap them into position with a hammer if necessary. Align and place the anti-crow bar plate with the bolt. Thread on a M10 flange nut to secure into place. Insert two M10×30mm coach bolts through the remaining square cut-outs. Align the column with the inside face of the side panel making sure to point the gas strut bracket in the direction of the anti-crow bar plate. Thread and tighten two M10 flange nuts to secure the column. Repeat on other side.

Step 2



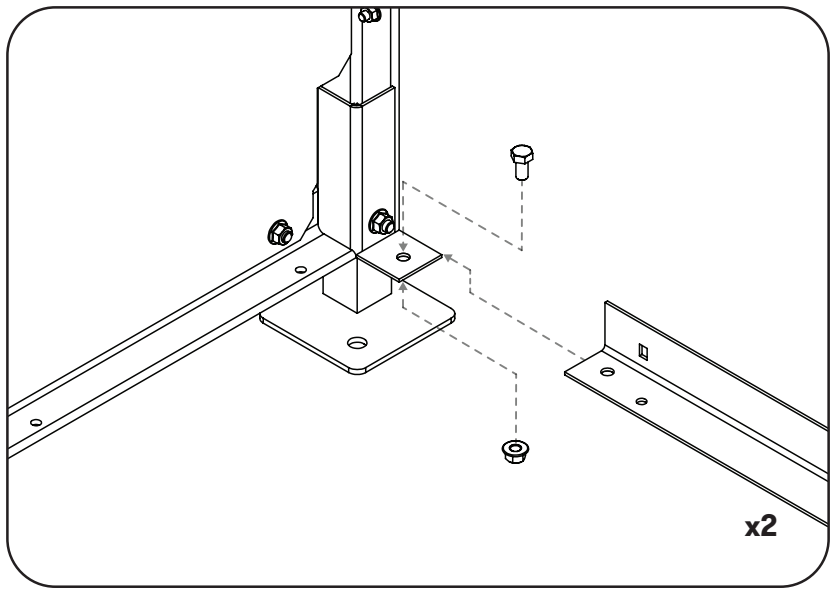
Insert the foot into the hole in the base of the side panel. Use a hammer to tap the foot into position if required. The hole on the baseplate should face toward the Bikehangar interior. Align the second set of holes so the foot is one step short of full extension. For the front feet, insert an M10 × 65mm square head bolt from the interior side and thread on an M10 shear nut on the outside. Do not shear the nut at this point! For the rear feet, insert the bolts from the outside, and thread on M10 flange nuts on the interior side.

Step 3



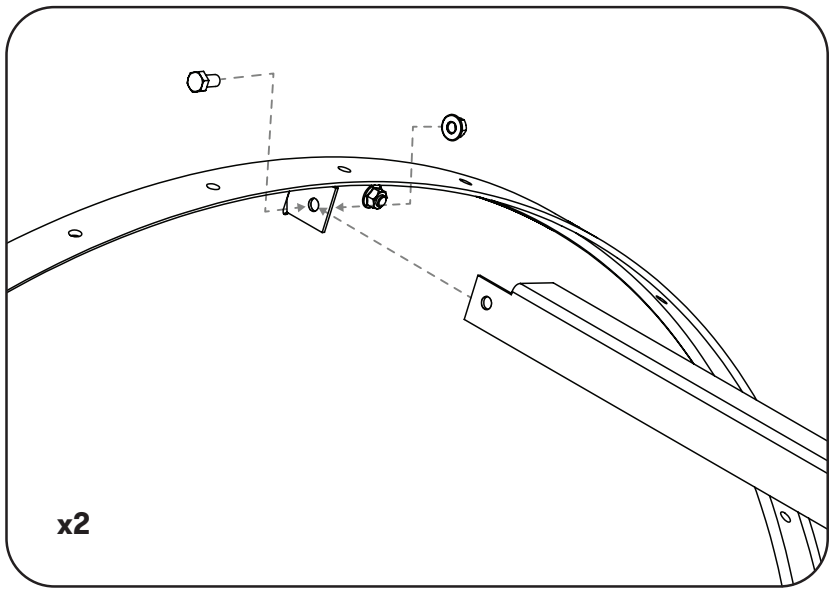
Insert two M10 × 30mm square head bolts through the square cut-outs at the top of the frame, tap them into position with a hammer if necessary. Align the top beam with the inside face of the side panel, so the holes in the mounting plate fit over the bolts. Thread on M10 flange nuts, leaving them finger-tight. Repeat on opposite side.

Step 4

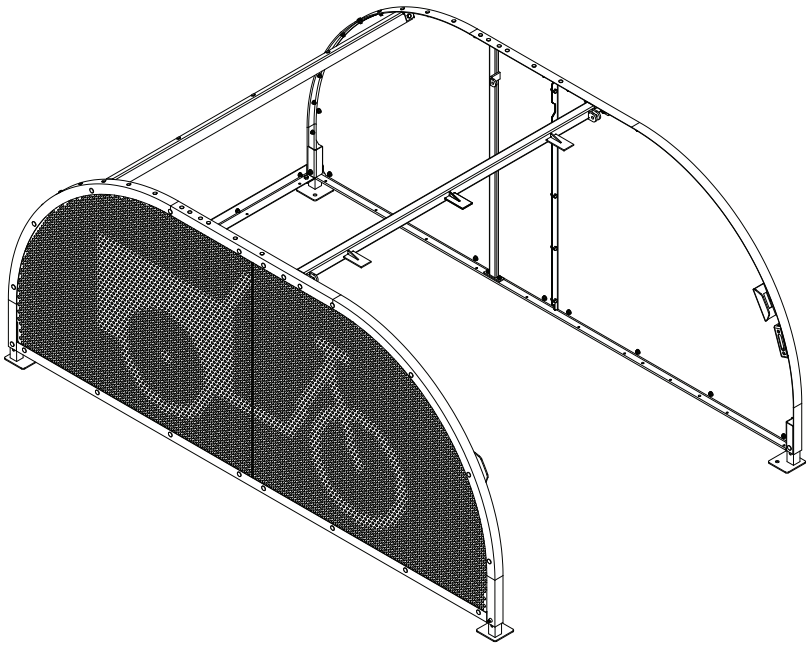


Position the end of the bottom beam onto the upper surface of the mounting bracket above the foot. Align the holes and insert an M10 × 20mm hex bolt from the top. Thread on an M10 flange nut, leaving it finger-tight. Repeat on opposite side.

Step 5



Position the middle beam so the holes align with the underside of the mounting bracket on the side panel. Insert an M10 × 20mm hex bolt from the top, thread on an M10 flange nut. Repeat on the opposite side. When all of the beams are in place, tighten all of the nuts.



Cargo Bikehangar

Assembly instructions

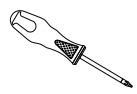
cyclehoop

Tools

13mm Socket

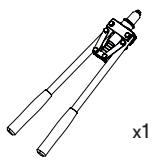
x1

Large Screwdriver



x1

Rivet gun



x1

Parts

Assembly from step 1
Roof panel 3
Roof panel 4

Fixings

M8
Flange nut

x38

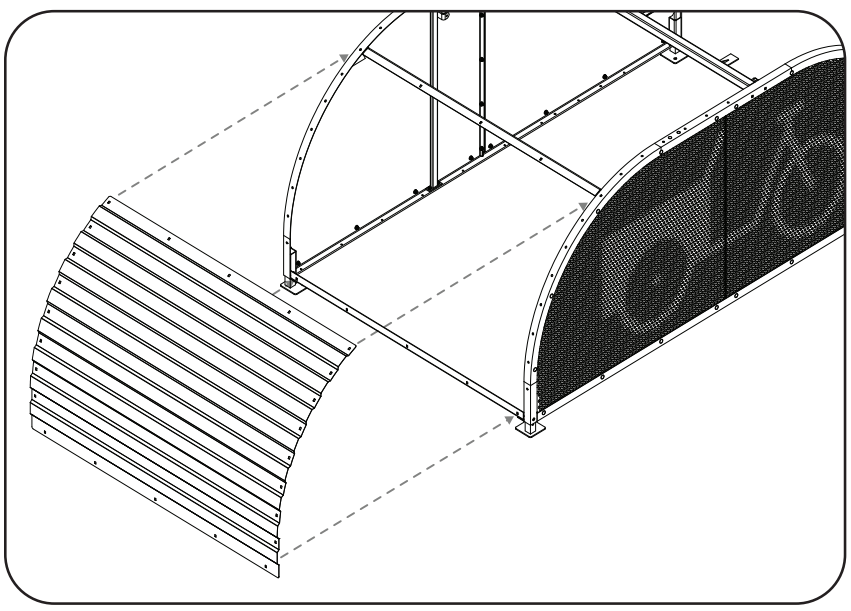
M8 × 20mm
Square Head Bolt with
M8 Rubber washer

x38

Rivet 3.2 × 6.0
Dome head

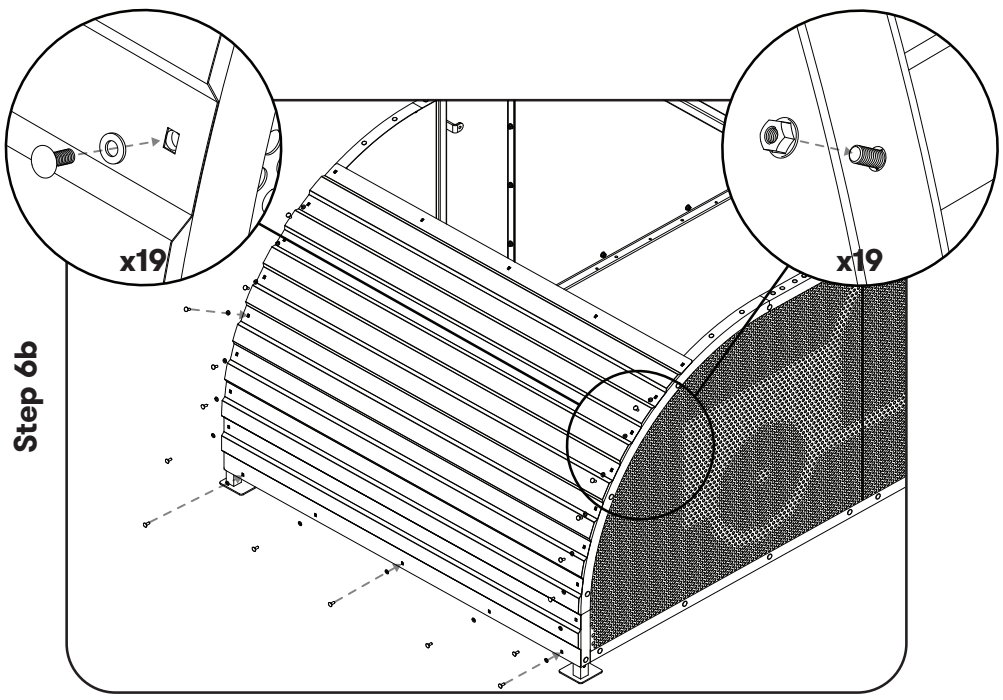
x3

Step 6a



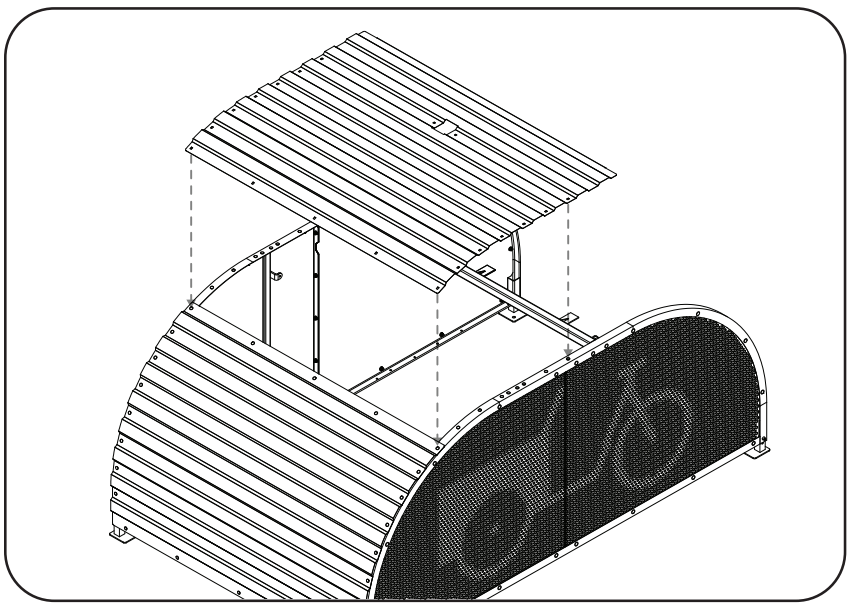
Position Roof Panel 4 against the rear base of the frame. Align the holes in the panel with the holes in the frame. Station a technician on the inside of the bikehangar, ready to thread the nuts onto the bolts as they are inserted.

Step 6b



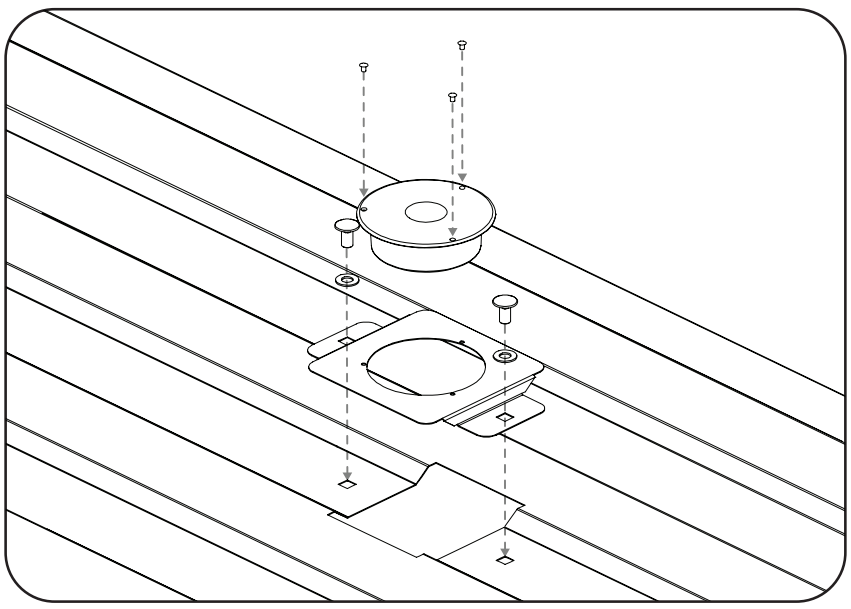
Insert a large screwdriver or similar implement into the top set of holes on both sides to hold the roof panel in place. Wiggle the screwdriver to lever/shift the panel into position so the holes align with those on the frame, apply considerable force if necessary. Starting with the second set of holes from the top, fit an M8 rubber washer onto an M8 × 20mm square head bolt and insert it into the hole. From the interior side, thread an M8 Flange nut onto the bolt until finger tight. Move the screwdriver to the adjacent hole and lever the panel to align the holes. Repeat this for all 24 holes, working down from the top to the bottom.

Step 7a



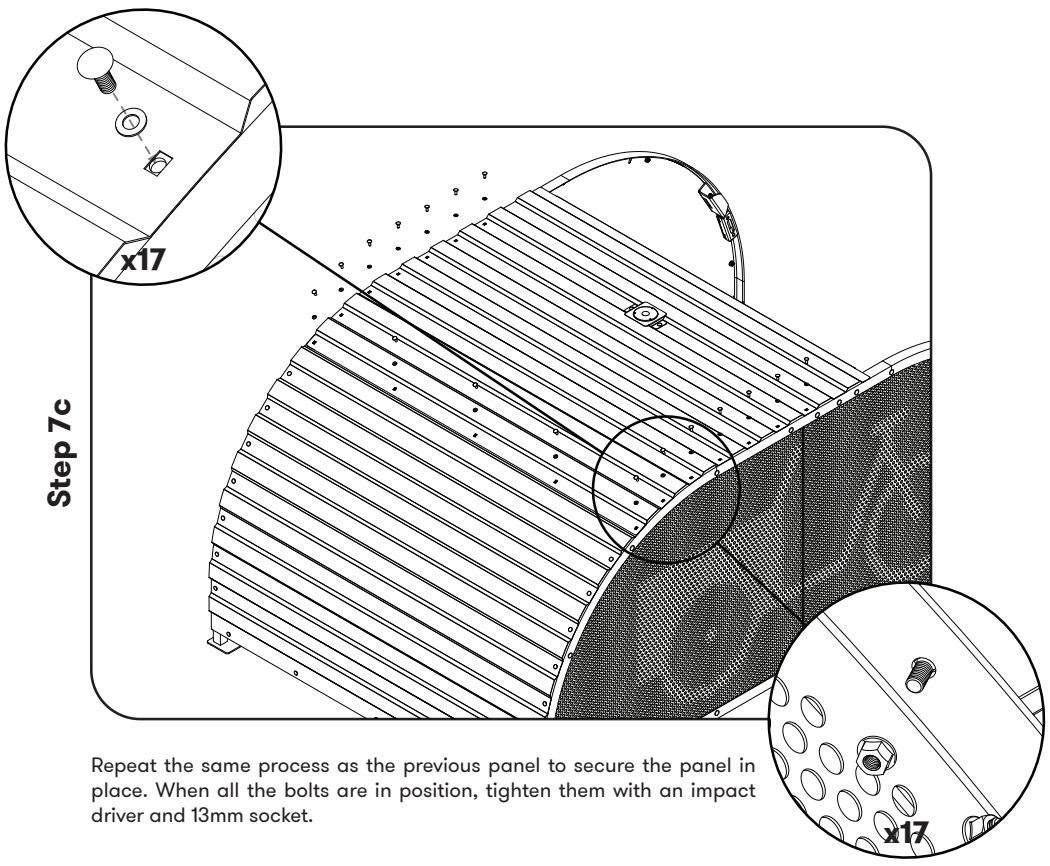
Hook the lip at the top of panel 3 onto the spigots on the top beam. Align the holes in the panel with those on the frame and the top of panel 4.

Step 7b

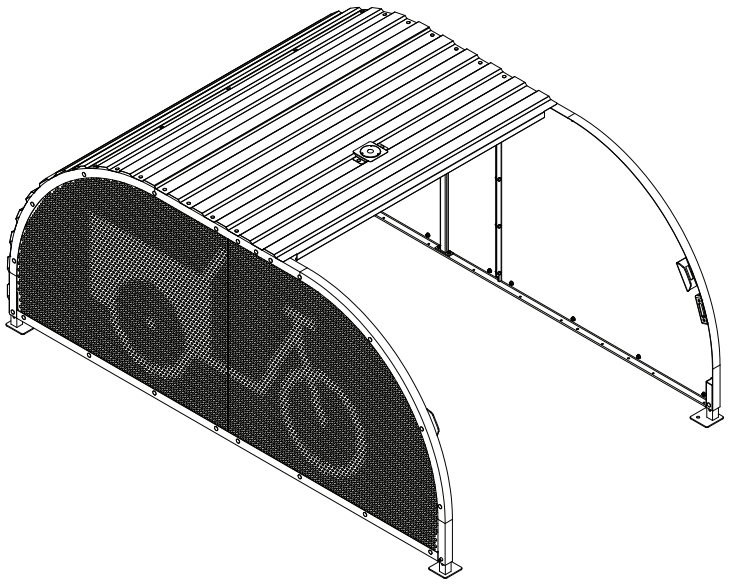


Fix the SolarEye light to the mount using the 3.2×6.0mm rivets provided. Fit a M8 rubber washer onto an M8×20mm square head bolt and insert it into the hole. From the interior side, thread an M8 flange nut and tighten with an impact driver and a 13mm socket.

Step 7c



Repeat the same process as the previous panel to secure the panel in place. When all the bolts are in position, tighten them with an impact driver and 13mm socket.



Cargo Bikehangar

Assembly instructions

cyclehoop

Tools

17mm Socket

x1

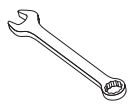
19mm Socket

x1

6mm Allen key

x1

13mm Spanner



x1

Parts

Assembly from step 8
Door frame
Door hinge x2
Gas spring x2
Door handle

Fixings

M10
Nylock Nut

x4

M12
Nylock Nut

x6

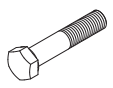
M12 × 30mm
Hex Bolt

x4

M10 × 30mm
Socket countersunk screw

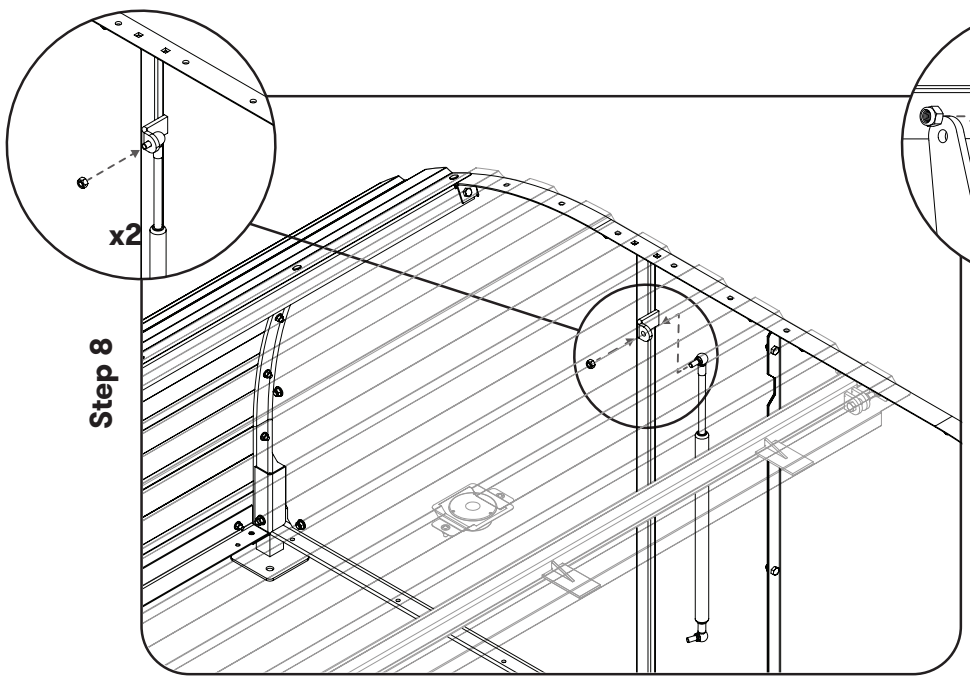
x2

M12 × 60mm
Hex Bolt



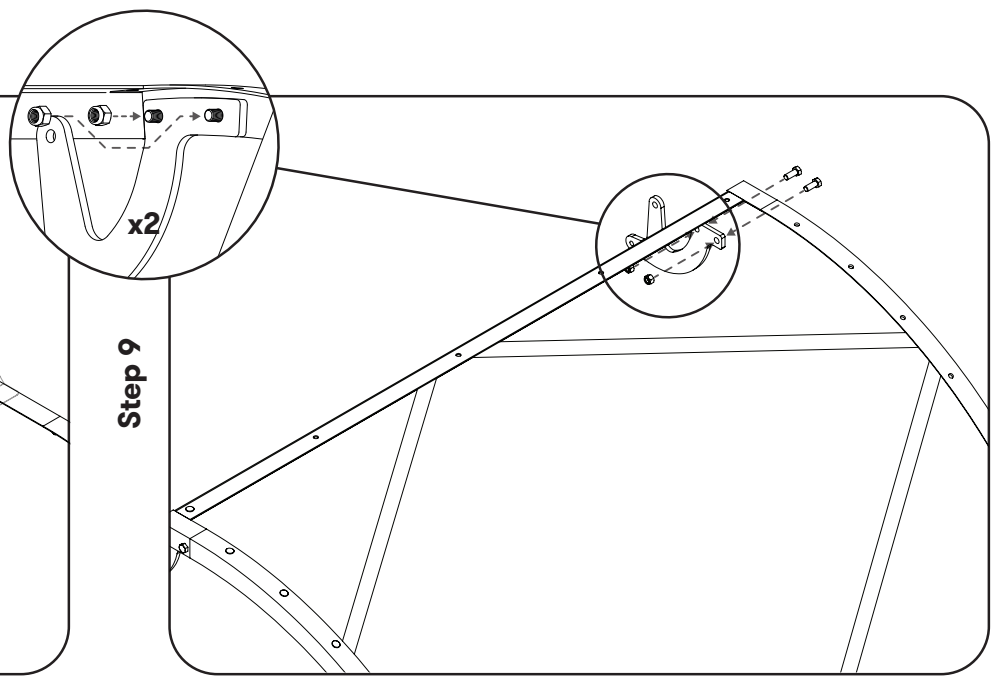
x2

Step 8



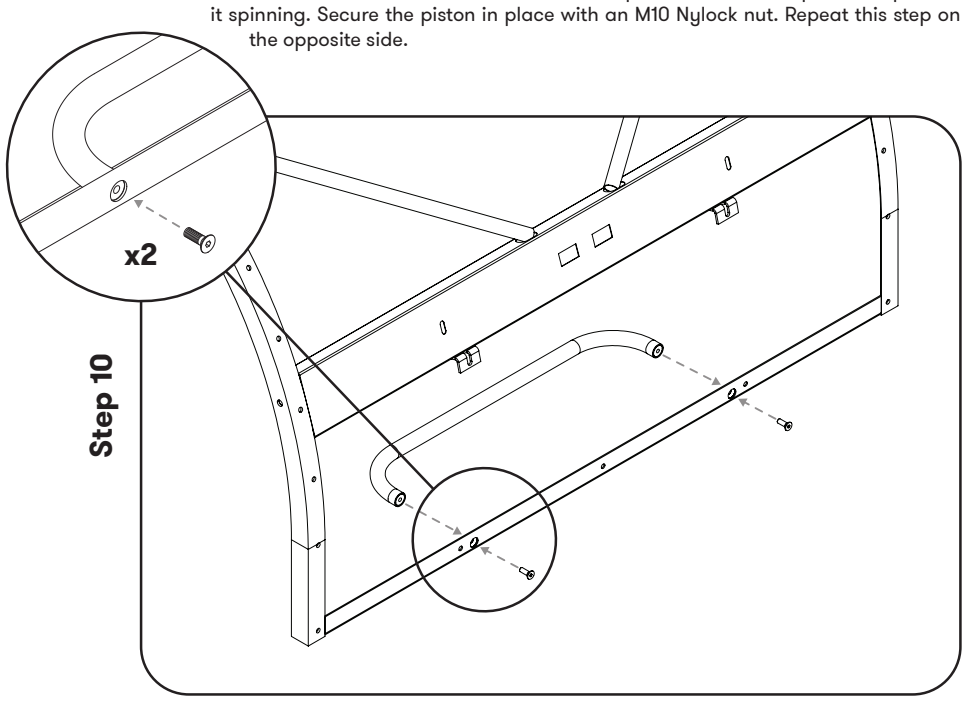
Insert the threaded boss on the telescopic end of the gas spring into the hole in the bracket at the rear of the frame interior. Hold the nut section in place with a 17mm spanner to prevent it spinning. Secure the piston in place with an M10 Nylock nut. Repeat this step on the opposite side.

Step 9



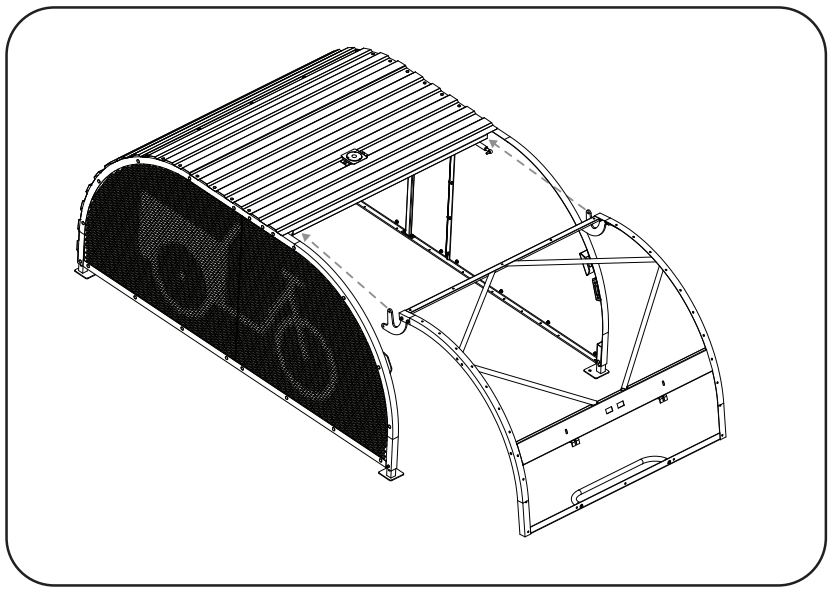
Position the hinge plates at the inner edge at the upper side of the door frame. Align the holes and insert a pair of M12 × 30mm Hex bolts from the outside. Secure the bolts in place with M12 Nylock nuts and tighten them. Repeat this step on the opposite side.

Step 10



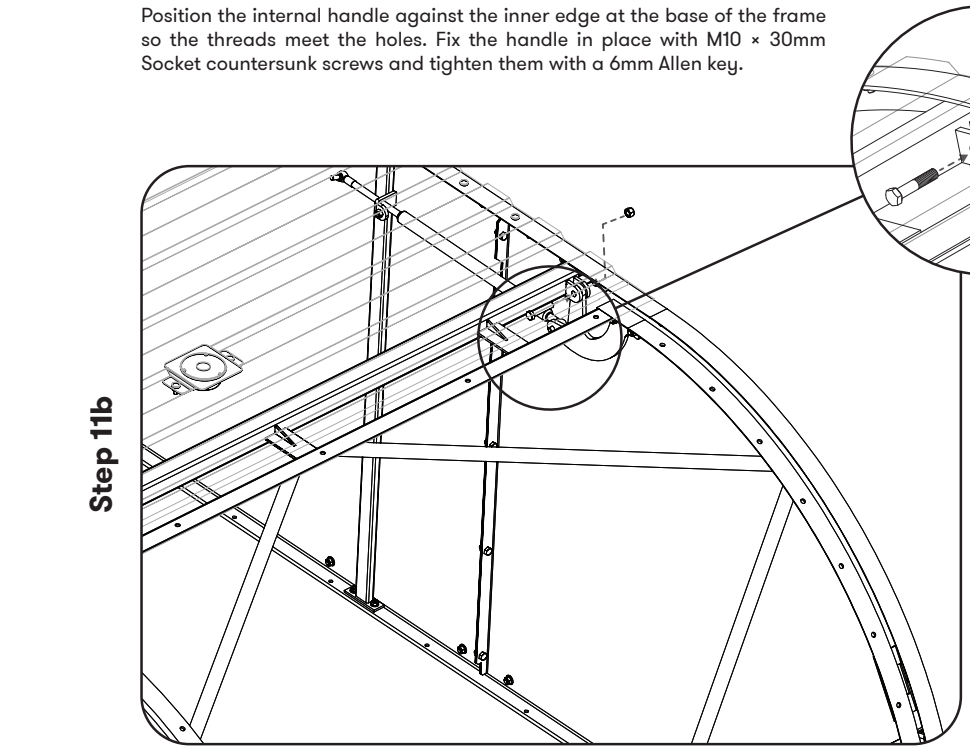
Position the internal handle against the inner edge at the base of the frame so the threads meet the holes. Fix the handle in place with M10 × 30mm Socket countersunk screws and tighten them with a 6mm Allen key.

Step 11a



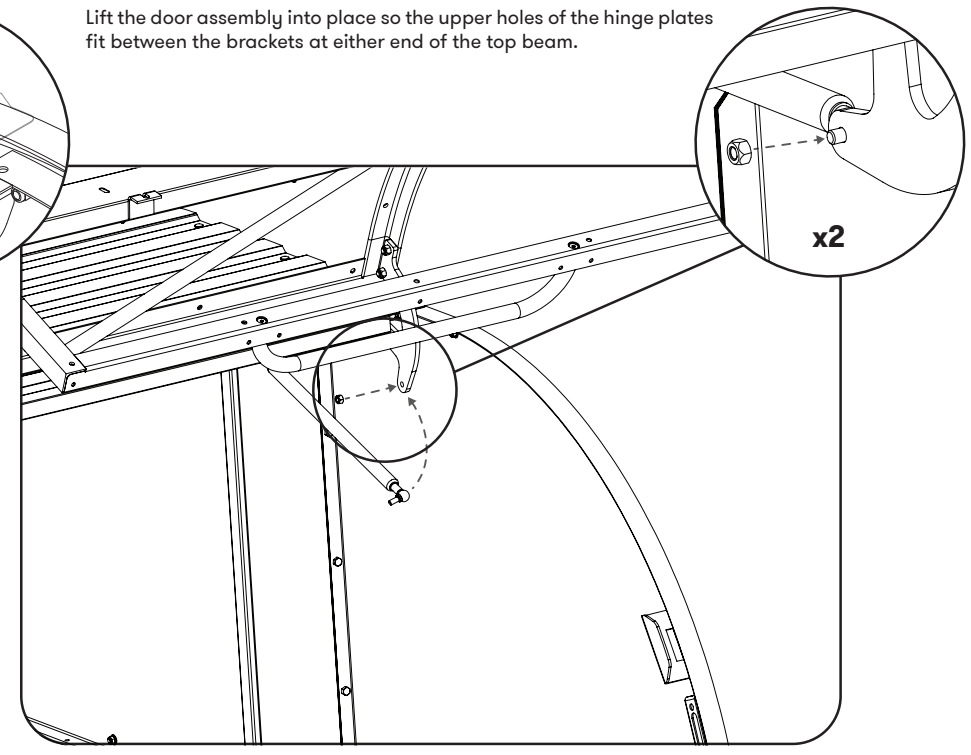
Lift the door assembly into place so the upper holes of the hinge plates fit between the brackets at either end of the top beam.

Step 11b



Apply a thin coating of lithium grease to the sleeve section of an M12 × 60mm hex bolt. Position an M12 Nylock nut on the outer face of the hinge bracket. Insert the M12 × 60mm hex bolt through bracket and hinge. Tighten the nut until the hinge rests on the sleeve section.

Step 12



In order to attach the gas spring to the lower hole on the hinge plate, the door must be lifted above head height. The door must be opened sufficiently to align the hole in the hinge and the spring end precisely. Ensure the door is safely supported at this extension before proceeding with this step. With the door open and supported, align the threaded boss at the end of the gas spring with the hole at the lower section of the hinge plate. Insert the boss

Cargo Bikehangar

Assembly instructions

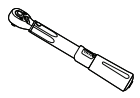
cyclehoop

Tools

13mm Socket

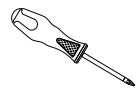
x1

Torque Wrench



x1

Large Screwdriver



x1

10mm Socket

x1

Parts

Assembly from step 12
Roof panel 1
Roof panel 2
Door handle
Lock plate and bracket

Fixings

M8
Flange Nut

x32

M8 × 20mm
Square Head Bolt
with M8 Rubber washer

x32

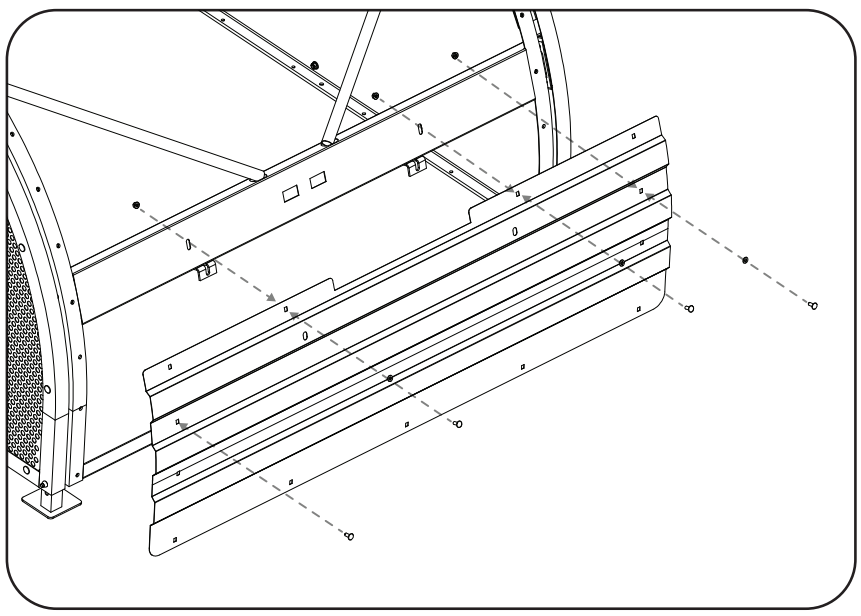
M6
Nut

x8

M10 × 20mm
Hex Bolt

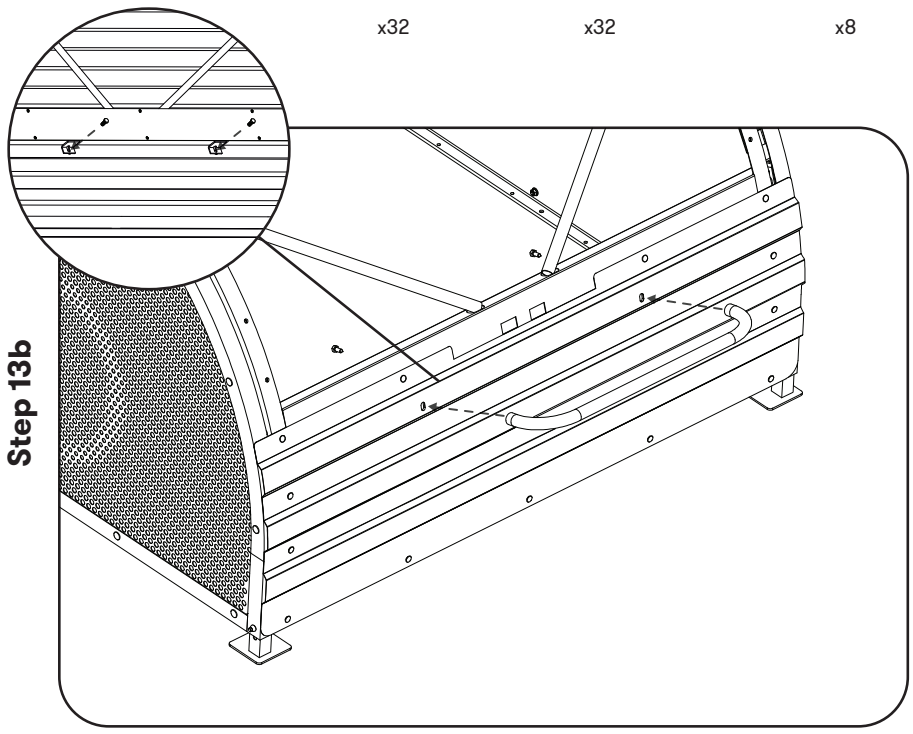
x2

Step 13a



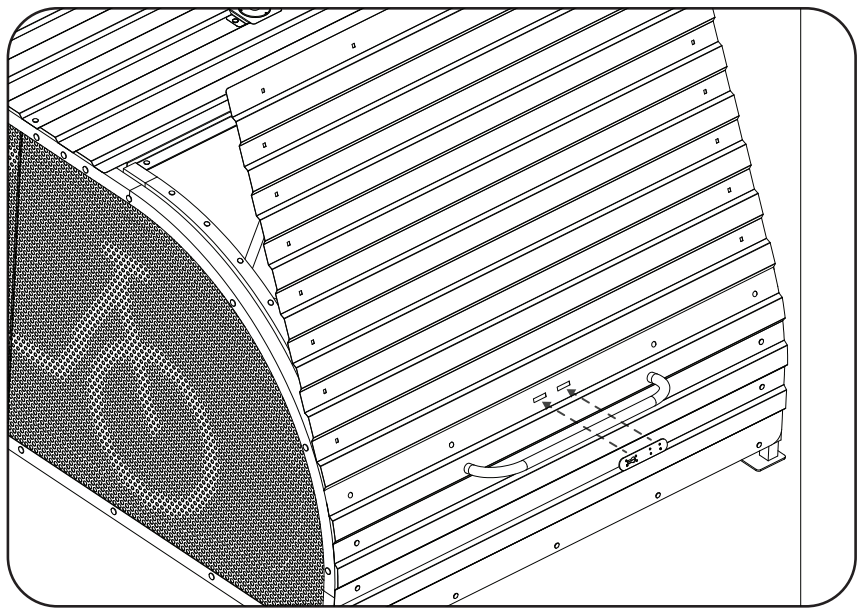
Station a technician within the Bikehangar for steps 13 to 17. Pull the door into the closed position and insert the locking rods into the corresponding sleeves at either end of the lock channel to hold it in place. Fix roof panel 1 to the door with the two central bolts along the top of the panel, either side of the lock cutouts. **NB**: This is to facilitate fitment of the lock faceplate and bracket. These bolts will be removed in step 15c and reinstated in step 16. Add bolts into the second hole from the top on either side, thread on nuts, leaving them finger tight.

Step 13b



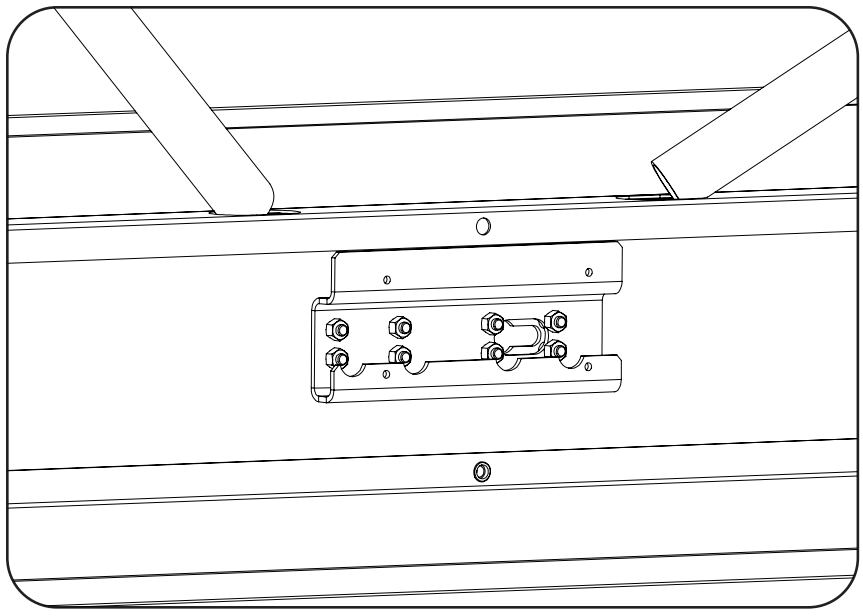
Feed two M10 × 20mm Hex bolts through the brackets beneath the lock channel from the inside. Position the external handle so the ends meet the bolts. The position of the roof panel may need to be adjusted to allow this, use a large screwdriver in one of the holes and shift/lever the panel if required. Thread the bolts into the handle and tighten them.

Step 14a



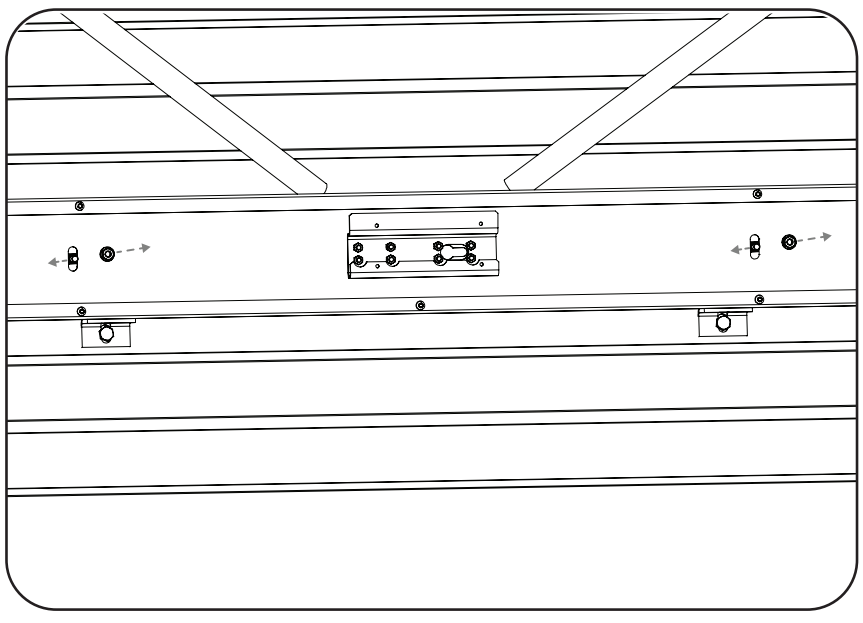
Stick the adhesive face plate sticker to the face plate. Position Panel 2 over the door (covering the bolts holding panel 1) and align the rectangular cutouts with those on the lock channel, insert the bosses of the lock face plate through the cutouts and apply sufficient pressure so that the bosses protrude into the lock channel.

Step 14b



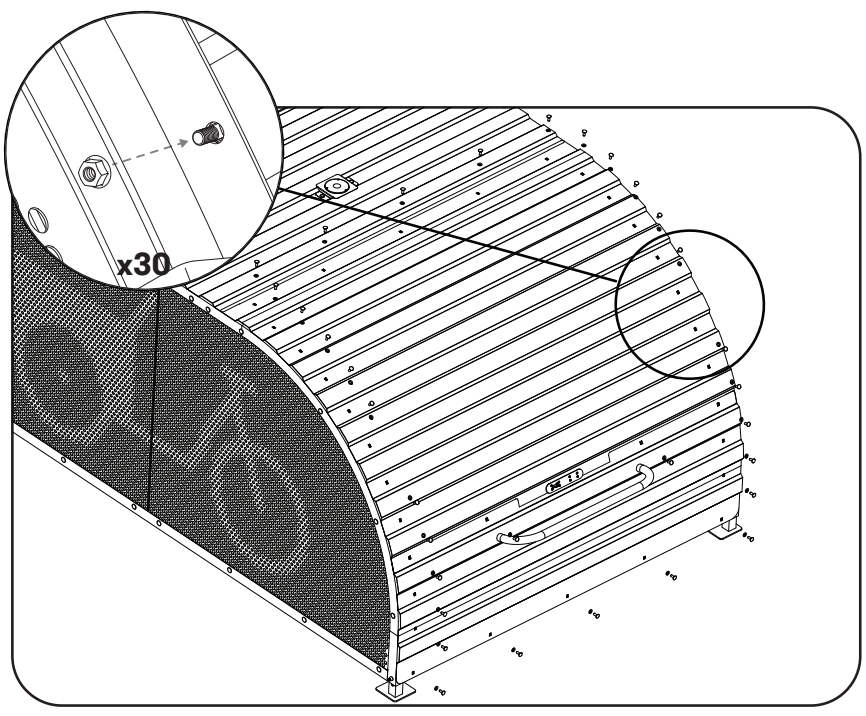
From the interior, seat the lock bracket onto the bosses and thread on the eight M6 nuts to secure the bracket and face plate in place. **Tighten the nuts to 6Nm with a torque wrench**.

Step 14c



From the interior, remove the nuts securing panel 1 on either side of the lock bracket, push the bolts back through the holes, flex panel 2 out of the way to release the bolts if necessary.

Step 15



Secure panel 1 and 2 to the door frame, working round the perimeter of the panels to fit the remaining 30 M8 × 20mm bolts with washers and M8 flange nuts. As in steps 5 and 6, use a large screwdriver in the adjacent hole to shift/lever the panels into position so the holes align with those on the frame. Tighten all of the nuts securing panels 1 and 2 to the frame with an impact driver.

Cargo Bikehangar

Assembly instructions

cyclehoop

Tools

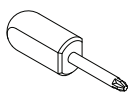
13mm Spanner

x1

8mm Spanner

x1

Phillips 3
Screwdriver



x1

Parts

Assembly from step 16
Lock cylinder and key
Locking mechanism
L-Bracket x2
Locking bar x2

Fixings

M5 × 30mm
Hex bolt

x1

M5 × 20mm
Pan head screw

x4

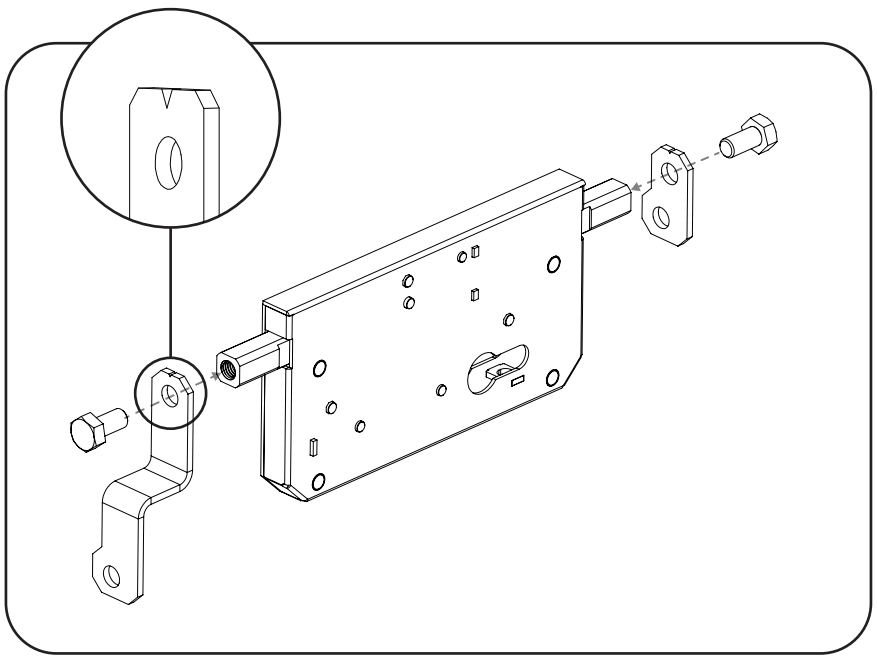
M8
Hex Nut

x4

M8
Hex Nut

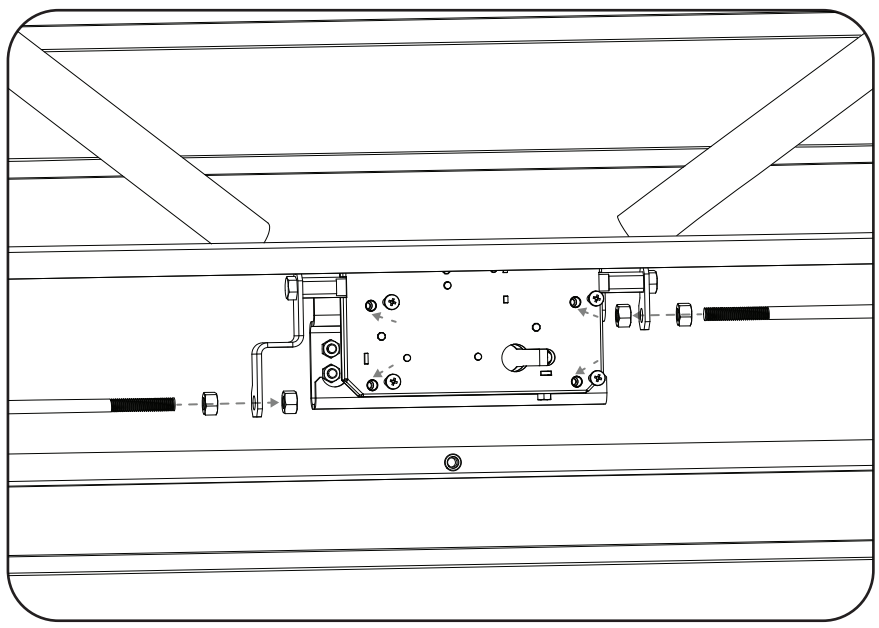
x2

Step 16a



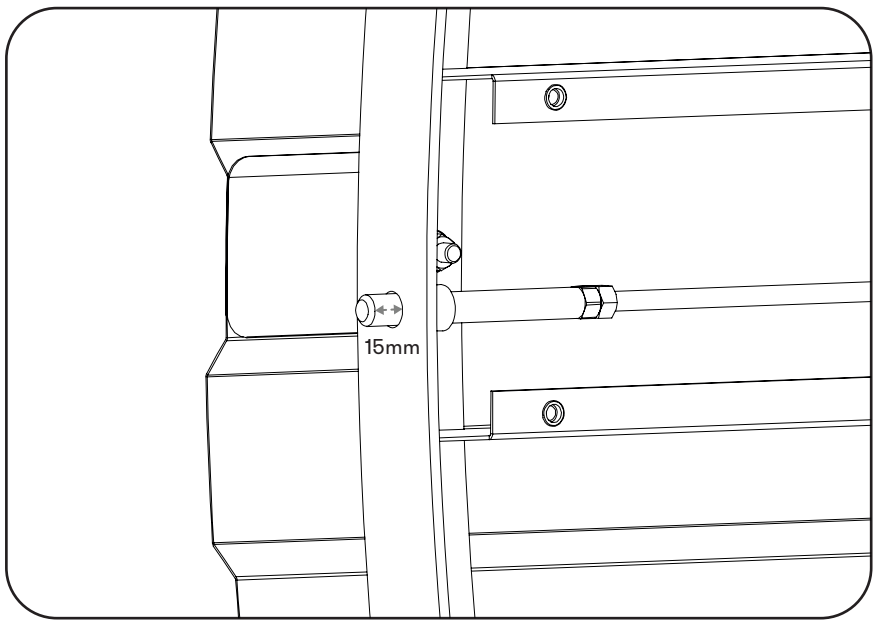
Fix the brackets onto the spindle on the locking mechanism with M8 × 16mm hex bolts and a 13mm spanner. Fit the larger 'S Bend' bracket to the left spindle, ensuring the notch is visible at the top.

Step 16b



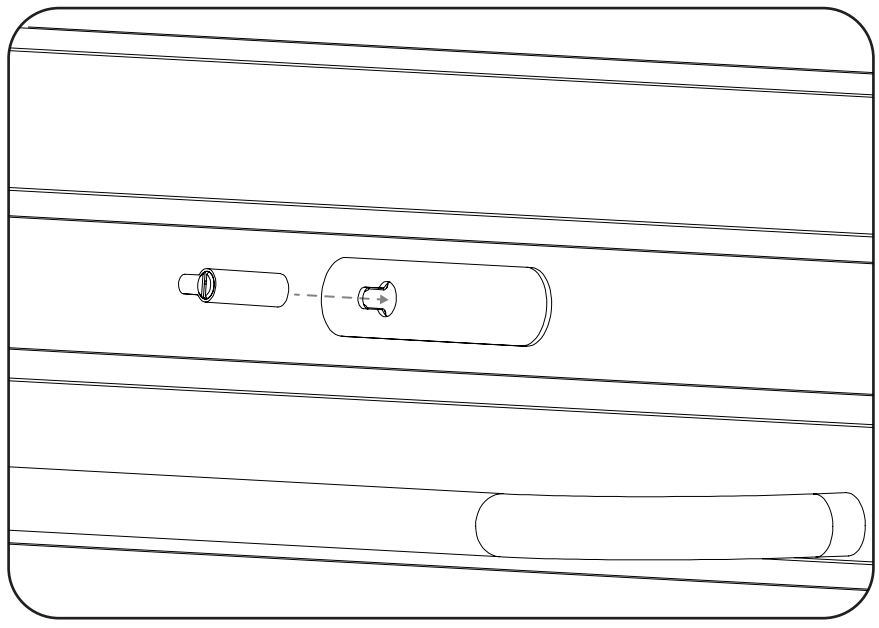
Attach the lock mechanism to the back plate with four button head screws, leaving them finger-tight. Remove the locking rods to allow the door to open. Thread an M8 Hex nut onto the locking rod at the end adjacent to the lock mechanism. With the locking mechanism in the unlocked position, insert the locking rod into the bracket and secure it in place with a second hex nut.

Step 16c



Adjust the balance of the nuts on the lock brackets to set the lateral position of the locking rods. With the lock in the unlocked position, the end of the locking rods should protrude 15mm past the outer face of door frame. Repeat this on the opposite side.

Step 16d



Insert the lock cylinder through the faceplate into the lock mechanism. Use the key to turn the cam slightly so the cylinder slides into position. Secure the cylinder in place with an M5 × 30mm Hex bolt on the underside of the lock mechanism. With the lock cyclinder in position, tighten the screws securing the lock mechanism to the lock bracket with a philips head screwdriver. Check the lock mechanism is actuating smoothly.

Cargo Bikehangar

Assembly instructions

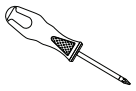
cyclehoop

Tools

19mm Socket

x1

Torx T30 Security Driver



x1

Parts

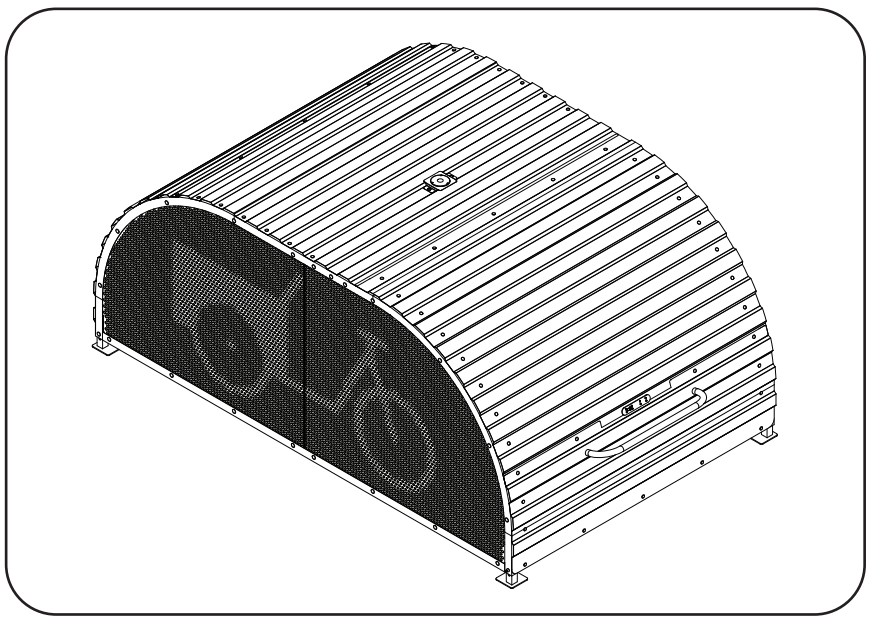
Complete Bikehangar Assembly

Fixings

M6 × 12mm Torx Security Button Head Machine Screws

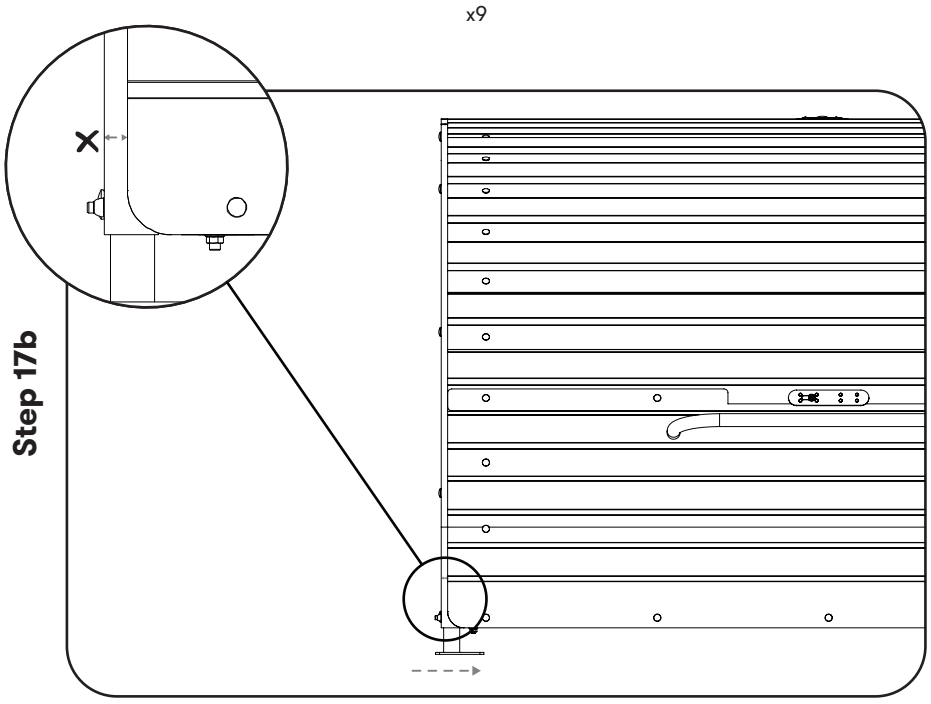
x9

Step 17a



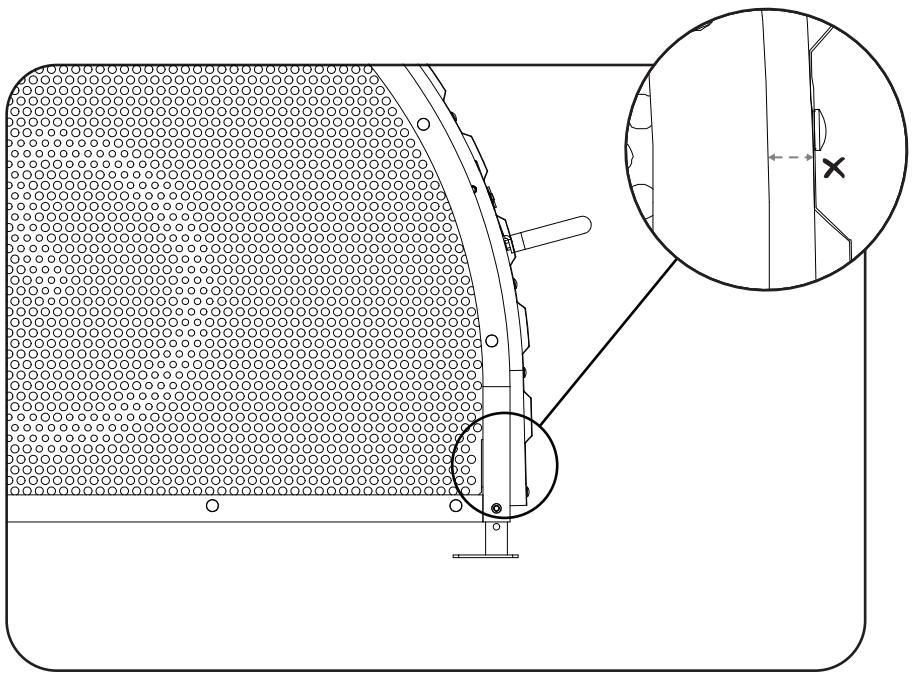
Upon completing the Cargo Bikehangar assembly, the feet may require adjustment to compensate for irregularities in the groundwork and to ensure correct operation of the lock mechanism.

Step 17b



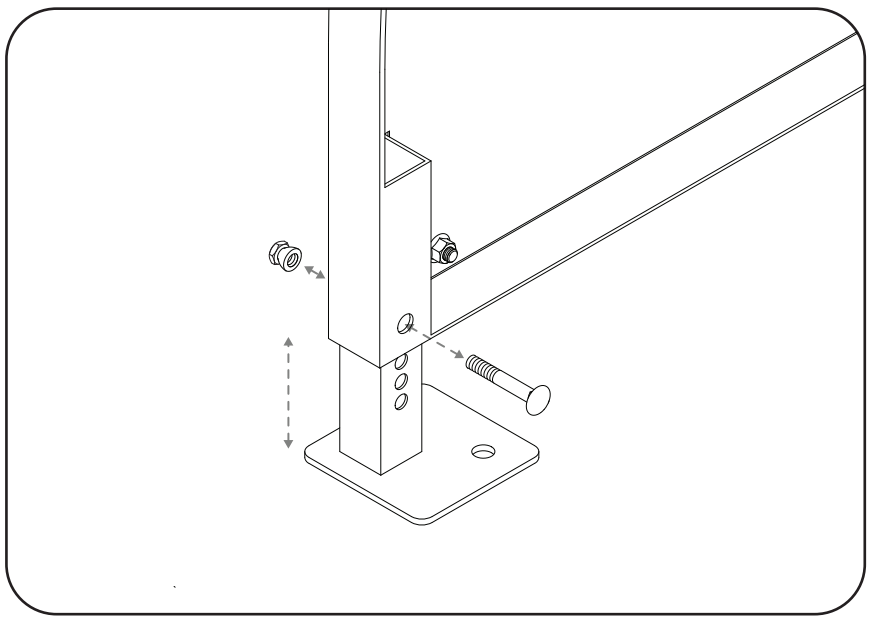
Inspect the lateral position of the front feet. With the door in the closed position, the outer face of the side panels should align with the edges of roof panels 1 and 2. If a gap is present, bring the front feet into alignment. The door frame should fit inside the hook plates on the side panels.

Step 17c



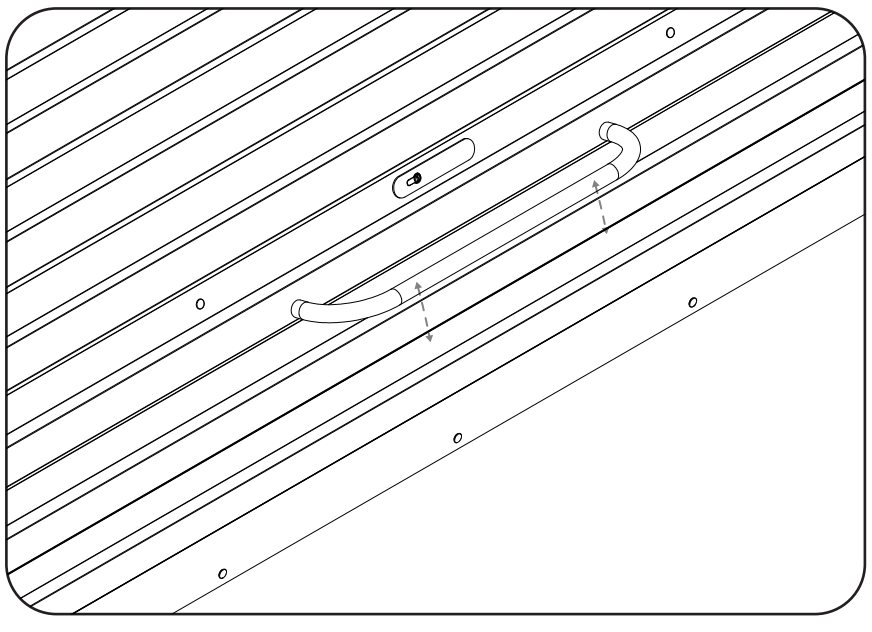
Check the vertical positioning of the side panels. With the door in the closed position, the interior face of roof panels 1 and 2 should sit flush with the upper surface of the side panel frames. If a gap exists, raise the foot by the corresponding number of steps.

Step 17d



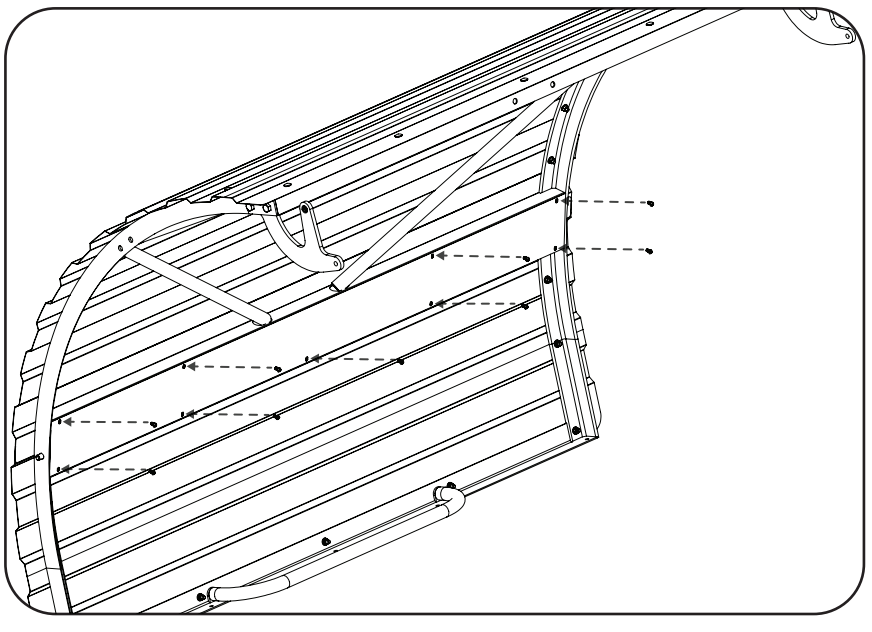
Position a hydraulic toe jack or other lifting implement beneath the frame adjacent to the foot. Raise the frame until the foot is 20mm clear of the groundwork. Remove the shear nut and bolt, reposition the foot to the correct set of holes and reinstall the bolt. Make further adjustments to the feet as required until the door is operating correctly.

Step 17e



With the door open, test the lock mechanism. The key should turn smoothly with minimal resistance. Close the door and apply gentle pressure to the door handle as you turn the key. The mechanism should feel the same as when the door is open. If the lock is not actuating, or if the mechanism feels stiff, return to the previous steps and ensure the frame is in alignment on both sides.

Step 18



When the lock is operating correctly, position the cover plate over the lock channel and secure it in place with nine M6 × 12mm Torx screws. Please note, no screw is needed above the lock mechanism.

Cargo Bikehangar

Assembly instructions

cyclehoop

Tools

19mm Socket

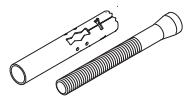
x1

Parts

Completed Bikehangar Assembly

Fixings

M10 × 75mm Expanding Ground Anchor

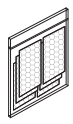


x4

M10 Shear nut

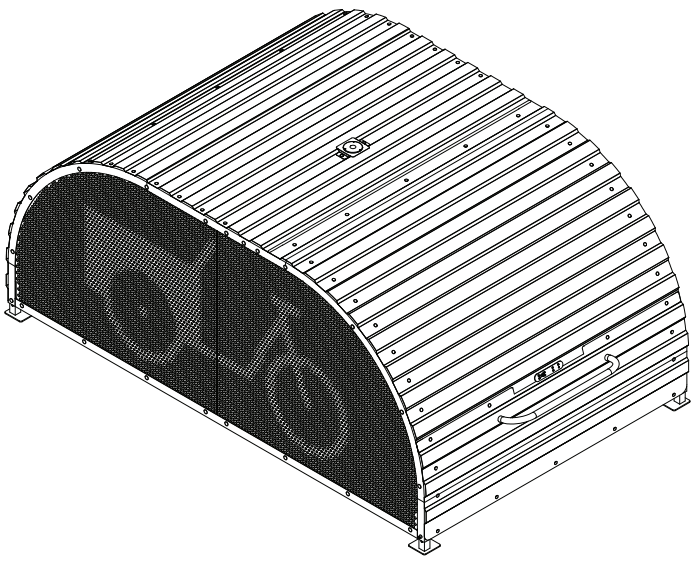
x4

Sticker Pack



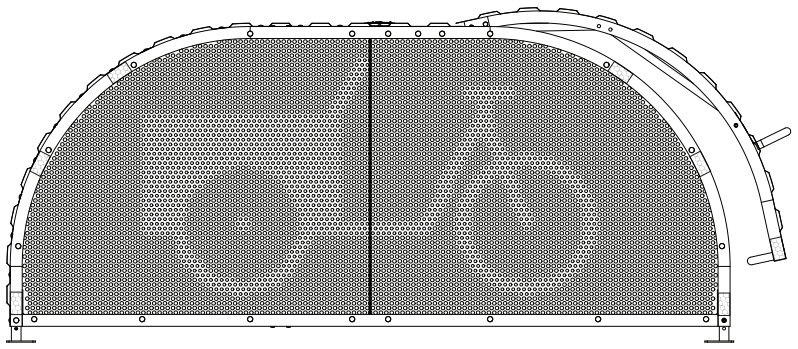
x1

Step 19



When the unit is operating correctly, secure the feet to the groundwork. Use an SDS drill with a 12mm masonry bit to drill through the holes in the base plates to a depth of 100mm. Insert an expanding ground anchor, thread on a shear nut and shear it with an impact driver. Shear off the shear nuts on the front feet with an impact driver.

Step 20



Apply reflective stickers to the face of the door frame and to the side panels. Refer to the Bikehangar Branding template document for remaining sticker placements.