



pittman[®]

CONSTRUCTION
GUIDE

ROTHAR CYCLE SHELTER



UNPACKING MATERIALS



1



The cycle shelter parts will be delivered packaged together.

2



3



Ensure you carefully unpack the materials to avoid any items from falling and getting damaged.

4



It is recommended that you lay down a protective surface onto the floor when placing down materials to avoid any damages and marks to perspex.

5

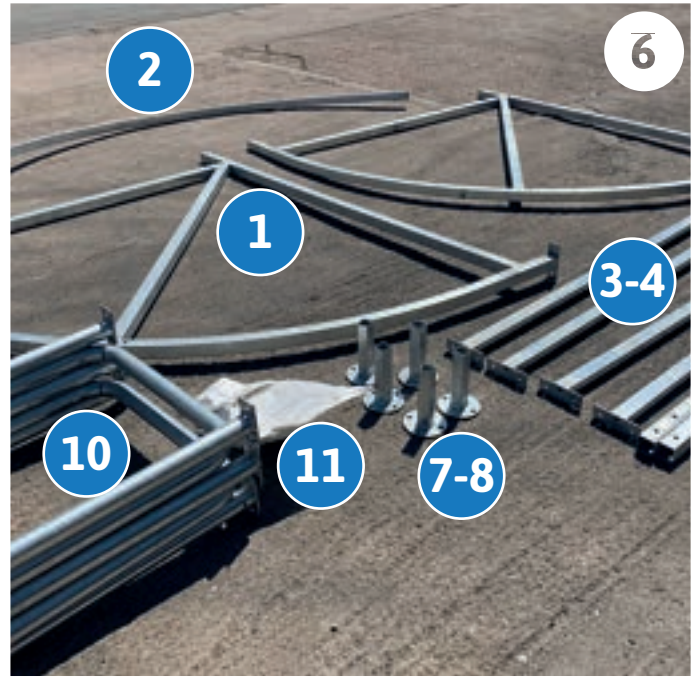


COMPONENTS LIST



You should have the following components. Make sure you have everything you need before continuing. In the construction guide we will refer to the part names along with the number.

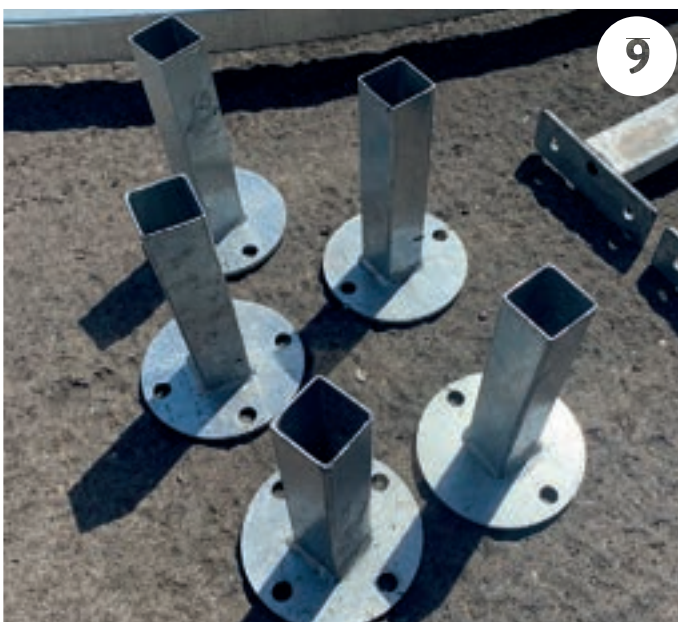
1. End Curved Frame x 2
2. Mid Curved Roof Bar
3. Rear Cross Bar x 4
4. Roof Cross Bar x 2
5. Perspex High Roof x 2
6. Perspex Low Rear x 2
7. Front Adjustable Feet x 2
8. Rear Adjustable Feet x 3
9. Perspex Sides x 2
10. Cycle Loops x 5
11. Shelter & Loop Rack Fixings



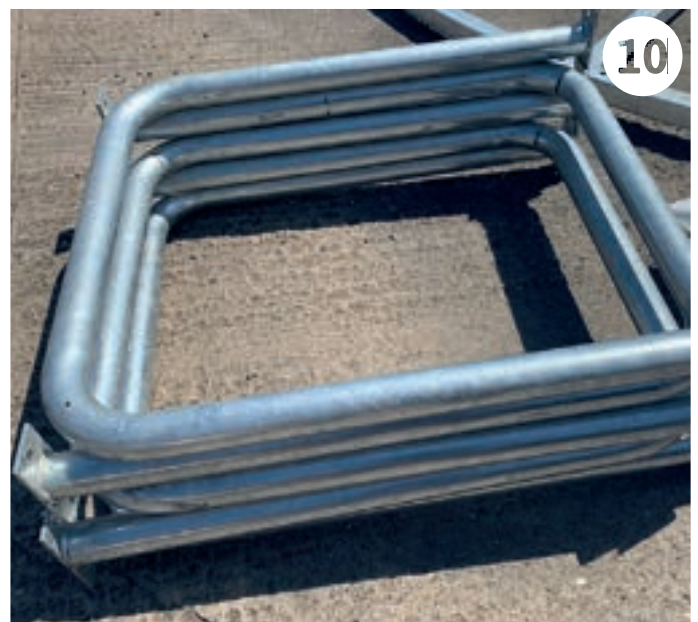
End Curved Frames



Rear & Roof Cross Bars



Front & Rear Adjustable Feet



Cycle Loops



ADDING PERSPEX TO END CURVED FRAMES



Lay End Curved Frames **(1)** in the right position to ensure the perspex is added the correct way.



Remove the protective backing from the perspex sheets when you are ready to attach them to the frame.



When placing down the perspex **(9)** onto the frame make sure it sits flush against the edge of the frame.



Perspex should not hang over the edge of the frame.



QMP Recommends...



Use a 10.5 drill bit to attach screws.

As you drill holes, clean away any excess waste material with a cloth before proceeding to attach the perspex to the frame.

16



Start by drilling the holes positioned on the frame, ready to attach to the cross bar later.

17

5.5x25mm
Tek Screw

These screws are required to secure the perspex to the frame. We recommend using the **Cap Screws** to fix these screws.

18



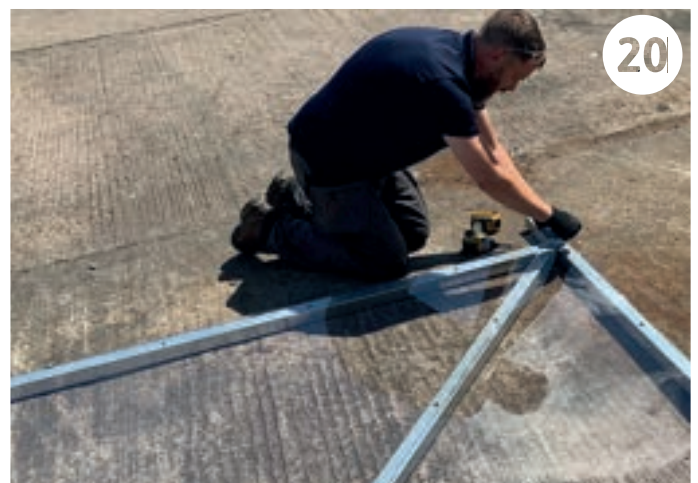
Work around the frame drilling holes and inserting screws. Work from the centre and move around the frame.

19



Space out screws leaving a gap of around 400-500mm between each.

20



Repeat the process for the second End Curved Frame **(1)** ensuring that the frame is positioned the correct way round.

BUILDING THE STRUCTURE

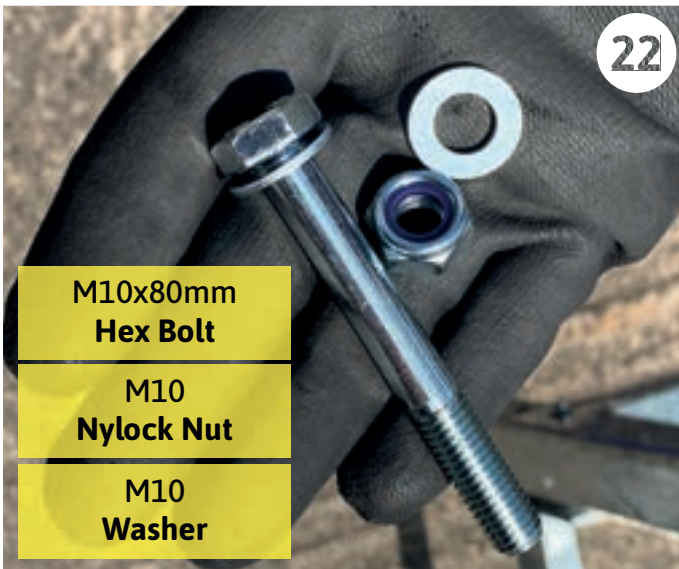


Use a 17mm ratchet and spanner to fix the main structure of the Shelter together.



21

Place the five feet in position ready to attach the cycle shelter components. The front feet have 3 holes for extra stability.



22

M10x80mm
Hex Bolt

M10
Nylock Nut

M10
Washer

These fixings are required to bolt the structure together.



23

Drop the first End Curved Frame (1) into the Front (7) and Rear Feet (8) and bolt together.



24

Attach the first Lower Rear Cross Bar (3). As this is bolted on try to keep the bar level.



25

Use a second person to hold the bar while the end frame is attached. Keep the frame steady and as level as possible.



26

Then attach the next Rear Cross Bar (3) in the centre position in the same way.



27

Next insert the Curved Roof Bar (2) into the Middle Rear Foot (8).



28

Bolt the Lower and Middle Cross Bars (3) to the Curved Roof Bar.



29



30

Make sure this is tightened and secured before adding in any further parts for full stability.



31

This is then the first half of the Cycle Shelter Structure completed.



32

Lower the opposite End Curved Frame (1) onto the front and rear feet.



33

Ensure the Rear Cross Bar (3) is level and the sides are inline.



34

Finally attach two more Cross Bars (3), one across the bottom,



35

and one in the middle to the Curved Roof Bar (2) and End Curved Frame (1)

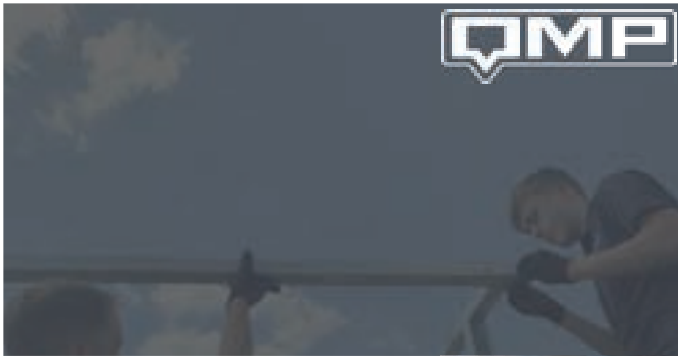


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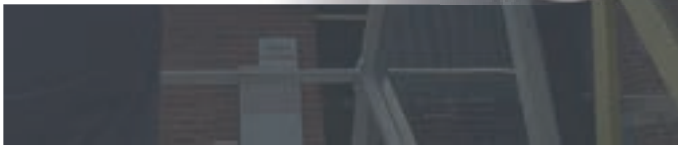


37

to complete the main structure of the Cycle Shelter.



ATTACHING THE FRONT ROOF CROSS BARS



38



The bars can now be added to the front of the shelter. Make sure these are positioned the correct way round.

39



The holes are slightly different on each side of the cross bars.

40



Attach the two Roof Cross bars (4) to the front of the shelter.

41



QMP Recommends...



Use a ladder and spirit level for safe and accurate fitting of the front roof cross bars.



42

Attach the bars loosely and only tighten once both cross bars are in the correct position.



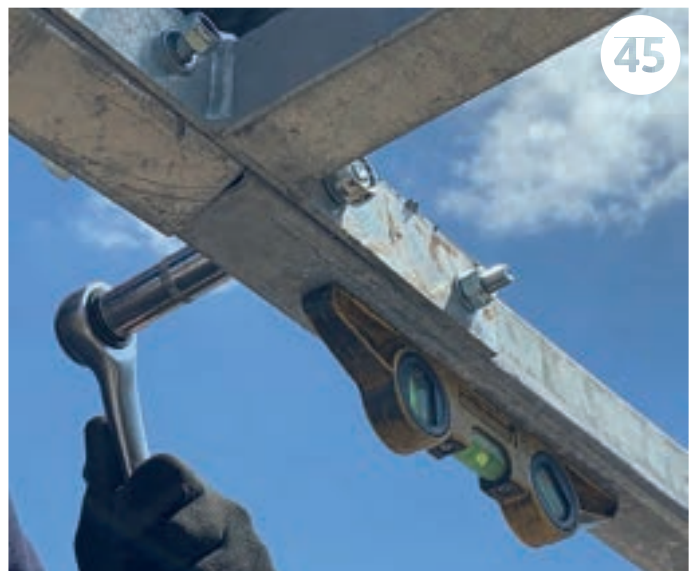
43

Try to ensure that both bars are straight and aligned correctly.



44

You may need to adjust the Curved Bar (2) by gently pulling up or down on this to get it into the right position, to enable the front bars to attach in the correct straight position.



45

Use a spirit level where necessary to check the bar is straight.



46

Check that the distance between the feet is the same on both sides.



47

SECURING THE FEET TO THE GROUND



Use a 10mm SDS drill to secure the structure to the ground.

48



**M10x95mm
Parabolt**

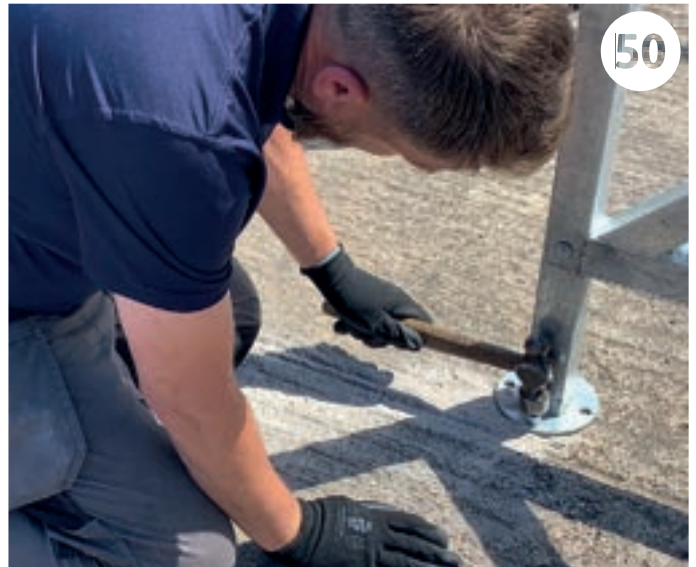
These fixings are required to bolt the structure together.

49



You can now fix the shelter to the ground. Complete this before attempting to add the perspex roof.

50



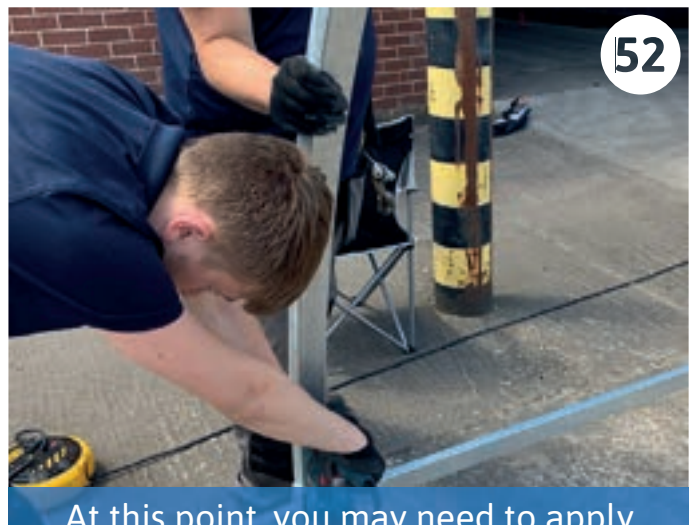
The screws used expand into the concrete as they are tightened.

51



As you fix the middle rear foot to the ground you may notice the Cross Bar (3) is not aligned correctly.

52



At this point, you may need to apply pressure to the Curved Roof Bar to straighten the back of the shelter into position as the feet are secured down.



ATTACHING THE **PERSPEX** ROOF PANELS



Where possible use grips as an aid until the perspex panels are secured in place.

As you drill holes, clean away any excess waste material with a cloth before proceeding to attach the perspex to the frame.



53

Start with the first sheet of High Perspex Roof (5). Lay the roof from behind the shelter with two people.



54

Someone should stand at the back of the shelter to lift the perspex and another in front of the shelter on ladders to lift into position.



55

The sheet should be lined up to the end of the frame (1) and the middle of the Curved Roof Bar (2).



56

This must be positioned accurately in the middle of the bar as then next piece will need to sit alongside this on the other side.



57

Screw into place from the centre and out to the edges leaving 300mm approx gaps.
Don't drill all the way to the bottom as you will need to leave space to attach the lower perspex pieces underneath.



58

If the roof starts to bow at any point apply pressure from underneath to push the perspex back into shape.



59

Fit the second high Roof Perspex sheet (5). Once again ensure this is fitted accurately. Ensure both high roof sections are fitted before moving to the lower section.



60

Next position the first Lower Rear Perspex sheet (6) under the high sheet.



61

Ensure it is in line with the top of the Rear Cross Bar (3) and level all the way along.



62

Finish attaching the top perspex sheet on top of the lower sheet working from the centre to the edges. Maintain 300mm approx gaps.

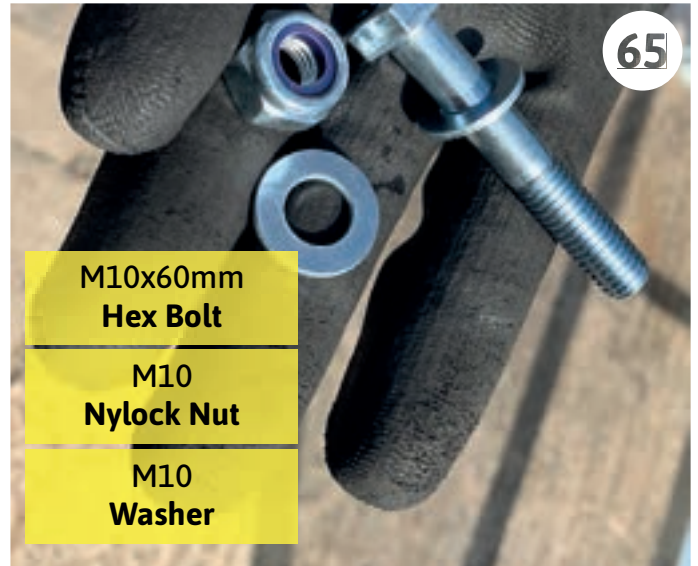


63

Again ensure the perspex does not bow at any point. The second piece can then be fitted in the same way.



For extra stability drill through the Front Adjustable Feet (7).



These fixings are required for this part of construction.



This will help the feet to connect to the frame more securely.



Attach an End Bung to both sides of the Front Cross Bar (4).



You should now have a complete Dudley Cycle Shelter. You can now add additional Cycle Loops or Cycle Racks as required.



FITTING CYCLE LOOPS



68



Place the five Cycle Loops **(10)** at equal distances inside the shelter.

69



Place the first loop in line with the curved Roof Bar **(2)** as the centre point and then move out to the sides. Place the loops approx 525mm from the back of the shelter.

70



Position the cycle loops with the drainage holes facing the back of the shelter.

71



**M10x95mm
Parabolt**

Secure the loops to the ground using these bolts.

