INSTALLATION GUIDE

Flat Roof Homesheds™

THE POTTER ON CONCRETE

STRATCO

BEFORE YOU START

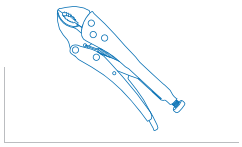
It is important to check your Local Government Authority requirements before the installation of your new Stratco Potter Flat Roof Homeshed. Read these instructions thoroughly before starting your project and refer to them constantly during each stage of construction. Contact Stratco for advice if you do not have the necessary tools or information.

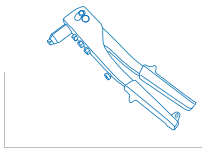
Before starting, lay out the main components on the ground in order of assembly and check them against the delivery note. The 'Components' section identifies each part of your Potter Flat Roof Homeshed.

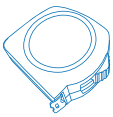
Ensure there is reasonable access for materials and working space, ensure the shed site is level and consider the disposal of run-off water.

TOOLS REQUIRED

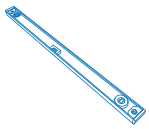
All tools are available from your local Stratco Home Improvement Store.


Multi-Grip Pliers


Rivet Gun


Tape Measure


Phillips Head Adapter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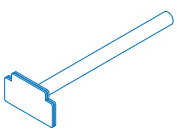
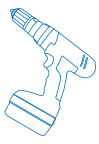
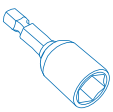
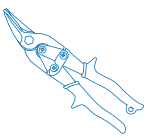
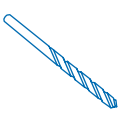

Turn Up/Down Tool


Power Drill


5/16" Hex Head Adapter

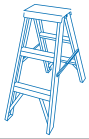

Permanent Marker

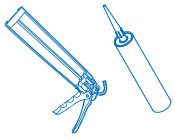

Tin Snips


1/8" Drill Bit

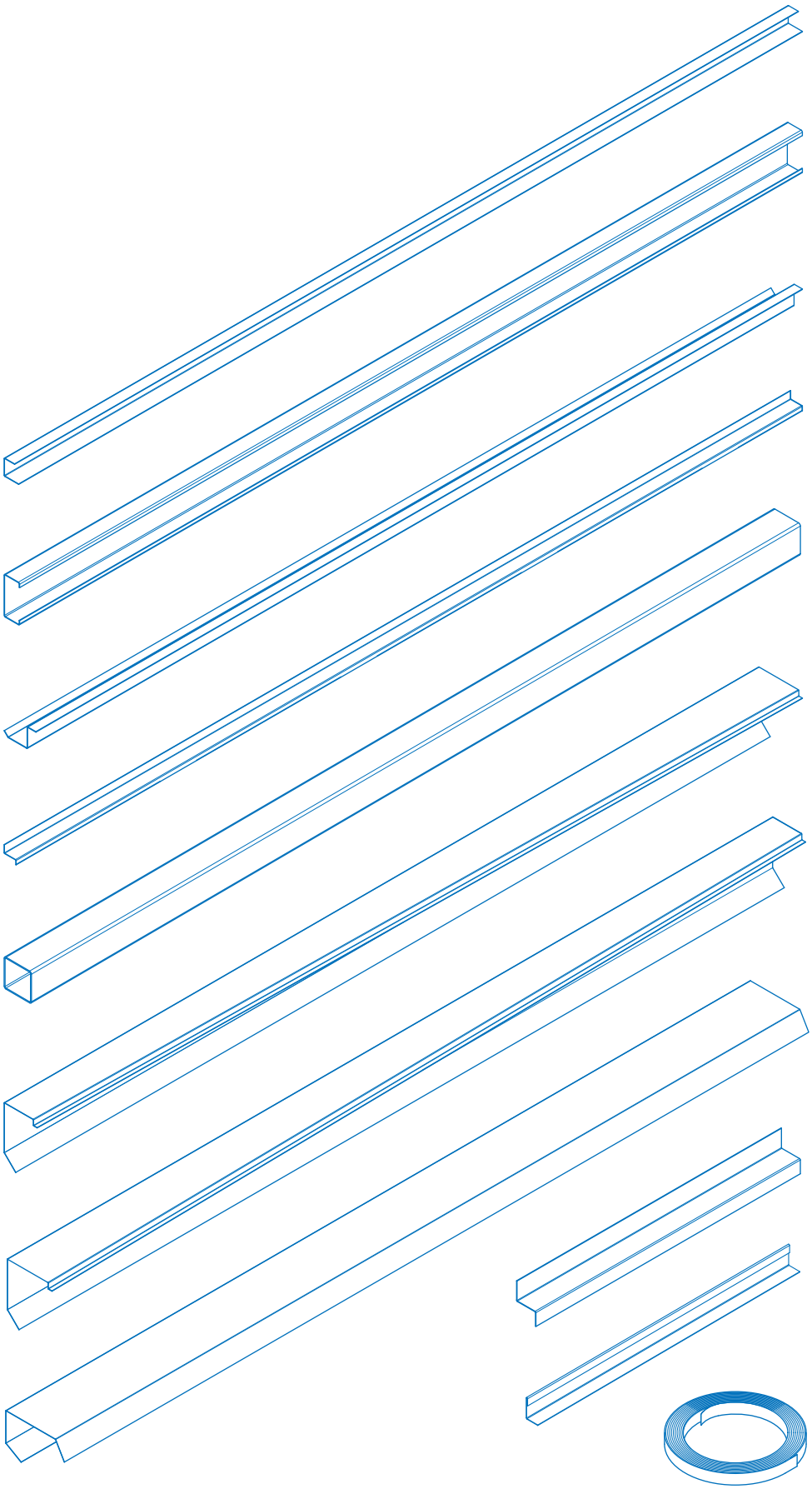

Gloves


Safety Glasses


Step Ladder


Silicone Gun / Silicone

COMPONENTS



55mm Channel
2 x 4000mm
2 x 3355mm

C-Section Beam
1 x 3230mm

P.A. Door Jamb
2 x 2100mm

Z-Rail
2 x 4000mm
2 x 3350mm

SHS
Corner Post
4 x 2110mm

Left Hand
Barge Flashing
2 x 2100mm

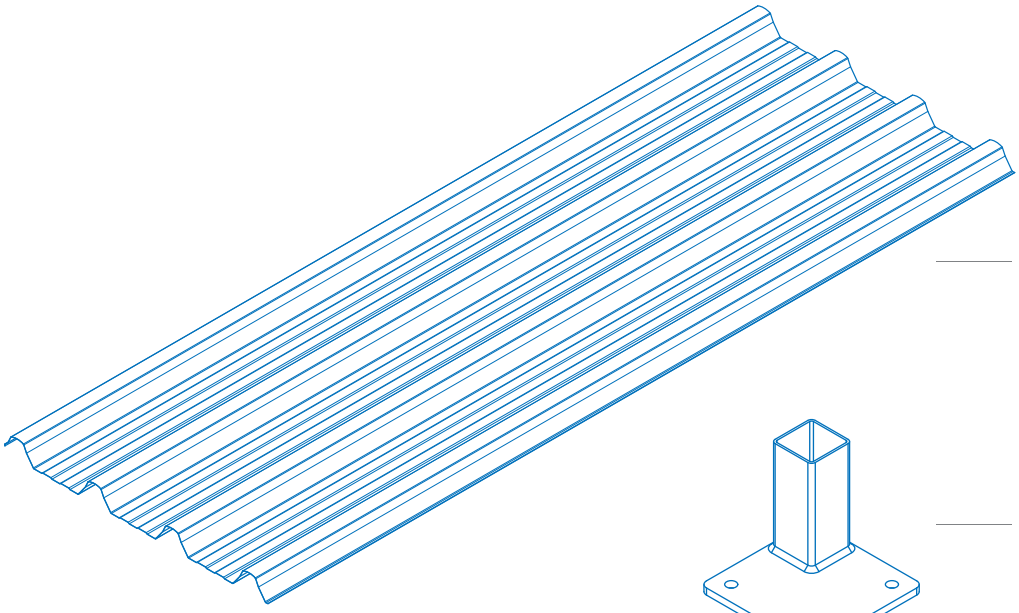
Right Hand
Barge Flashing
2 x 2100mm

Corner Post
Flashing
4 x 2130mm

Z-Section
Door Stop
1 x 768mm

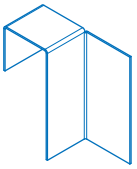
PA Support
Flashing
1 x 725mm

Strap Bracing
2 x 30m

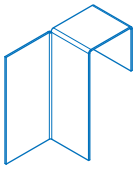


Prodek®
5 x 4200mm
21 x 2100mm

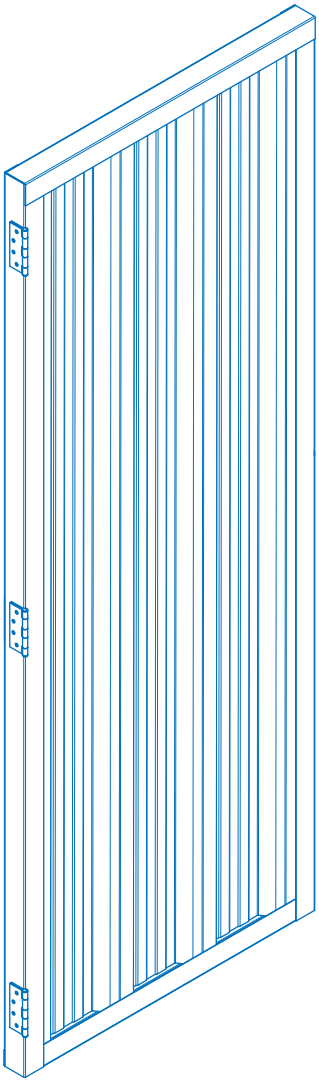
Corner Footing
x 4



End Fix Bracket
1 x Left Hand



End Fix Bracket
1 x Right Hand



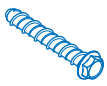
P.A. Door
1 x Pre-assembled

10x16 Self Drilling
Screws x 120

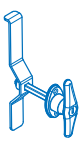
14x25 Self Drilling
Screws x 120

Rivets
x 270

10x16 Wafer
Head Screws x 12



M12 Masonry
Anchor x 12

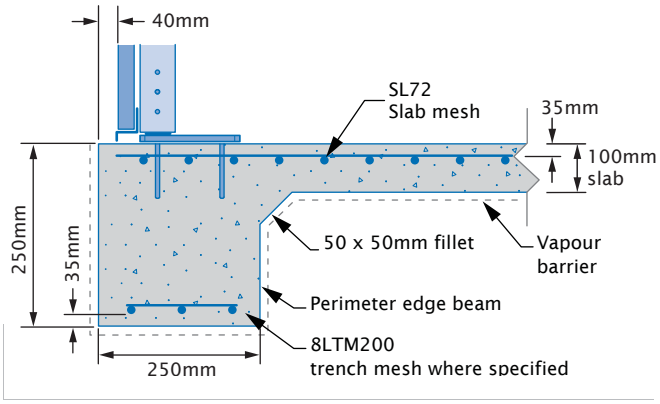


T-Handle
x 1

Note: The components listed are for a standard shed.
Components will vary depending on Gutter,
Downpipe and Double PA Door options.
Refer options in the back of the instructions.

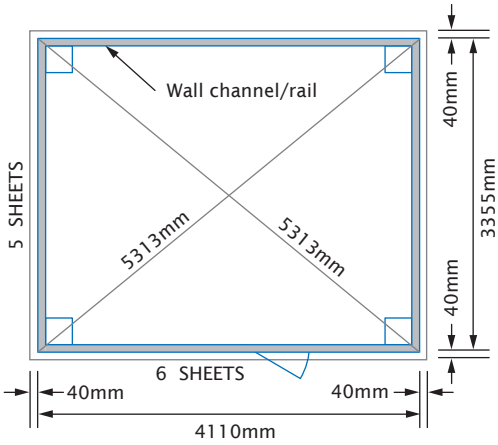
STEP ONE

Determine the location of the concrete slab. If the ground is uneven or sloped, ensure that the slope does not exceed more than 150mm. Mark out the slab dimensions as specified and check that the corner to corner measurments are equal. The outside edge of your slab shall be no less than 40mm from the outside face of the sheets.



Footing Details

Potter slabs require a concrete edge beam around the perimeter of the entire slab. Footing beams to be founded on firm natural soil. Ensure minimum concrete grade N20. Refer to Footing Details and Layout for dimensions and slab requirements.

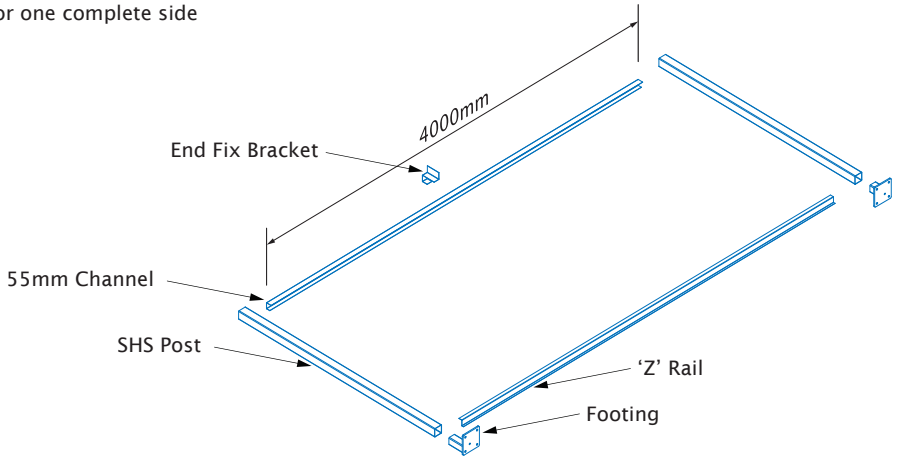


Footing Layout

STEP TWO

Arrange on the ground the components for one complete side panel frame as shown.

2 x 2110mm - SHS Post
1 x 4000mm - 55mm Channel
1 x 4000mm - Z-Rail
2 x 2100mm - Footing
1 x End Fix Bracket



Panel Layout

STEP THREE

Insert footing into 75x75x2.5mm SHS. The gap between the bottom of the SHS and the top of the base plate should not exceed 10mm (Figure 1).

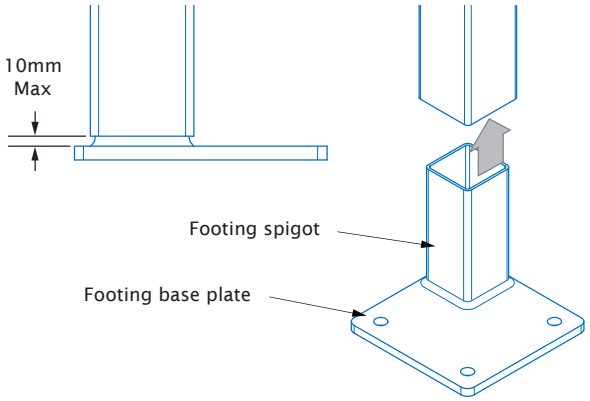


Figure 1

Predrill pilot holes through the SHS and into the footing spigot 25mm from the bottom and at a maximum 50mm centres (Figure 2). Fix the SHS to the footing plate with 14x25 self drilling screws. Repeat for other post.

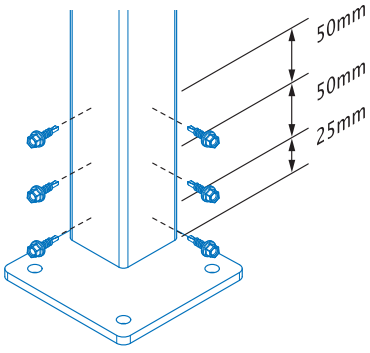


Figure 2

Using two 14x25 self drilling screws attach the long leg of the Z-rail to the corner post and footing (Figure 3). Secure one screw first, ensure the frame is square before fixing the second screw, refer Step Four for bracing details. The bottom of the Z-rail must be in line with the bottom of the base plate and the end of the Z-rail must not overhang the post.

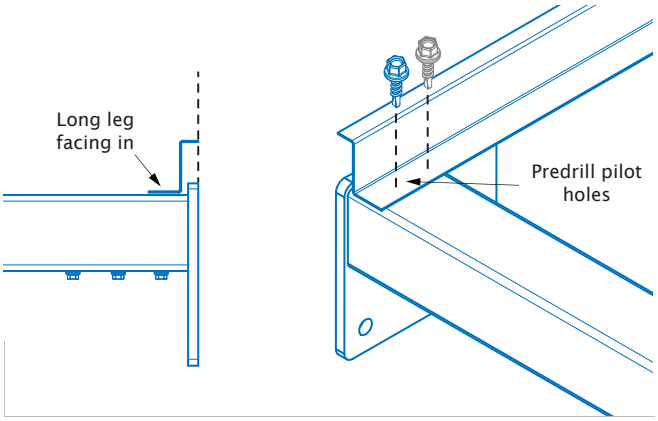


Figure 3

With two 14x25 self drilling screws attach the long leg of the top channel to each corner post (Figure 4). Secure one screw first, ensure the frame is square before fixing the second screw, refer Step Four for bracing details. The distance from the top channel to the Z-rail is 10mm longer than the wall sheets (2110mm).

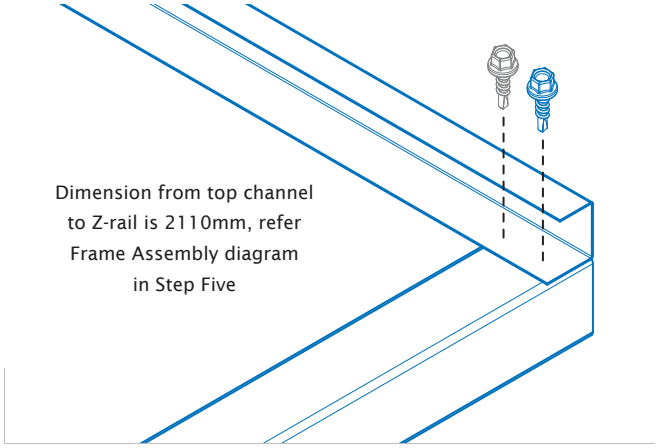


Figure 4

If the panel is to include a PA door install one sheet of Prodek to assist in maintaining squareness, refer Fixing Detail (Figure 45).

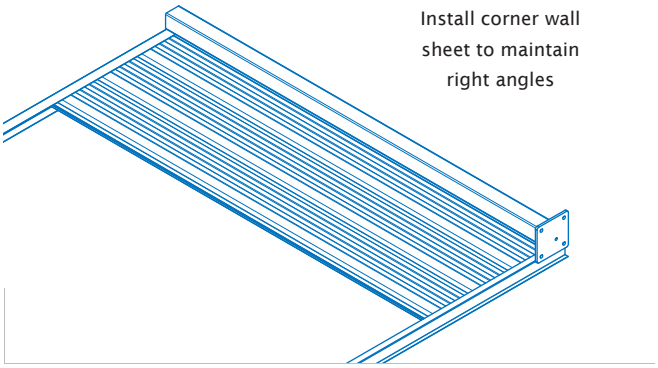


Figure 5

Attach the End Fix Bracket to the top channel, mid-span with two 10x16 screws (Figure 6).

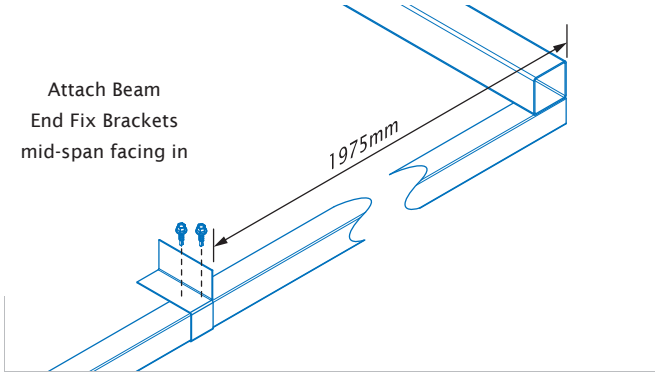


Figure 6

Once all the panel components are connected measure the diagonals to ensure the frame is square. Secure the frame with 30x0.8mm bracing, refer to the Step Four for bracing details.

Cut bracing to length and fix at each end with two 14x25 self drilling screws as per Detail A, Figure 7. Ensure screws are minimum 20mm away from the end of the bracing. After securing all the bracing fix the remaining 14x25 self drilling screws securing the Z-rail and top channel to the posts as per Detail B, Figure 7.

Layout the opposite side panel and repeat steps two and three.

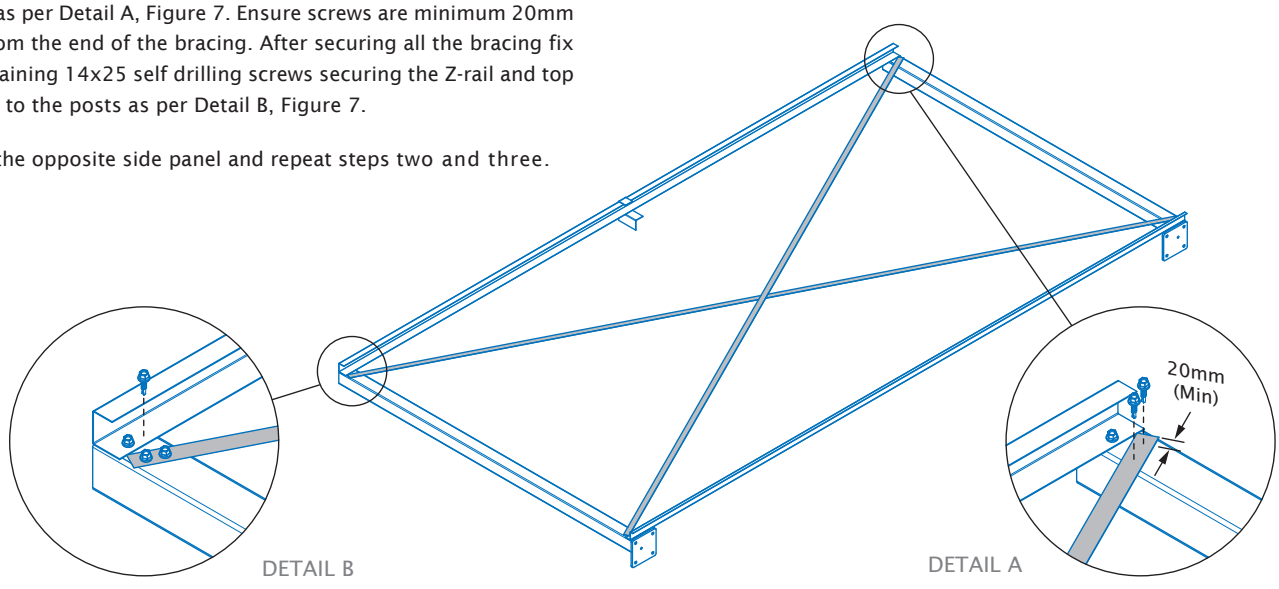
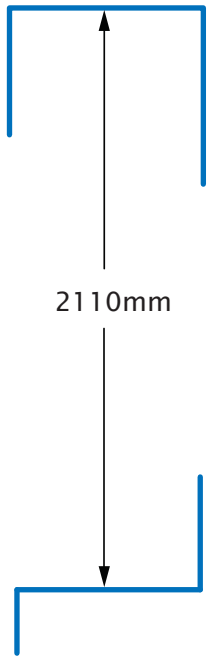


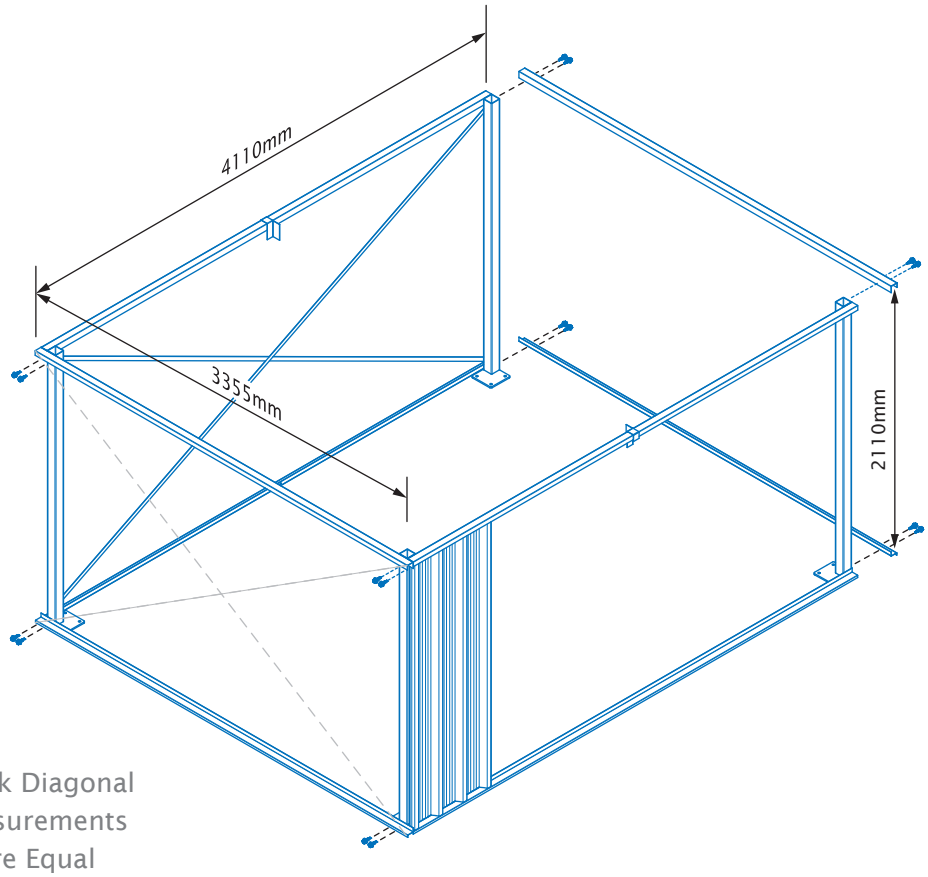
Figure 7

STEP FOUR

Carefully lift one panel and secure with temporary supports. Repeat this operation for the opposite panel. Place the two remaining 55mm channels against the corner posts at each end of the shed, with the long leg inward and fasten with one 14x25 self drilling screws in each post. Place the two remaining Z-rails 2110mm from the top channel with the long leg inward and fasten with one 14x25 screws in each post.

Ensure the Z-rails are level with the Z-rails previously installed on the other wall panels. Secure the 55mm channels and Z-rails to posts with one screw first, measure the diagonals to check for squareness, then securing remaining screws.

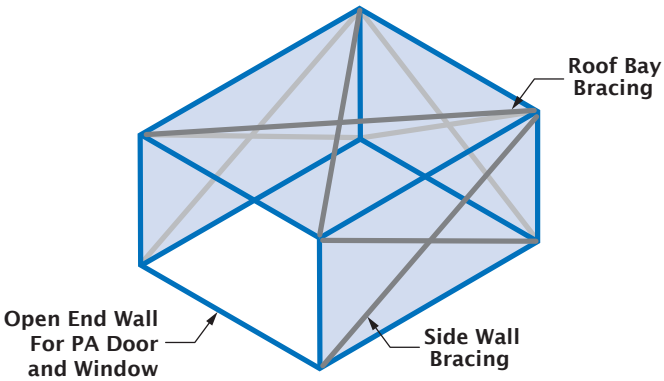


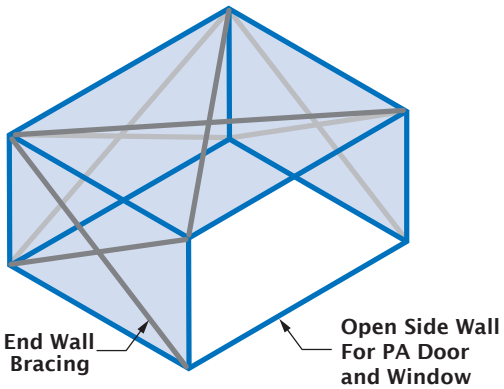


Check Diagonal Measurements Are Equal

Frame Assembly

The Potter Homeshed must be braced on the roof and three sides. The side without bracing will inlude door and optional window.





Bracing Requirements

STEP FIVE

Lift the C-section beam into place and temporarily support while ensuring the bottom of the end fix bracket is touching the bottom inside of the C-section beam (Figure 8).

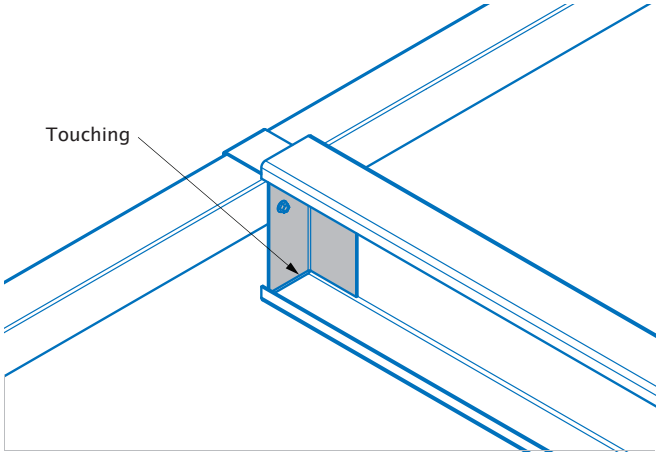


Figure 8

This provides the correct height for the slope of the roof sheets. Fix the C-section beam to the brackets using three 10x16 screws per bracket (Figure 9).

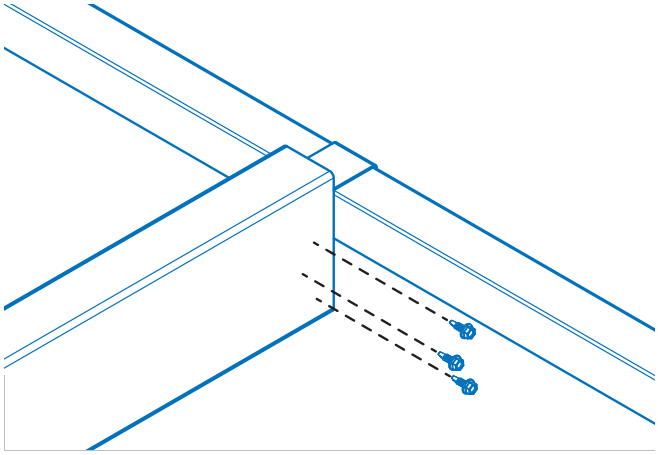
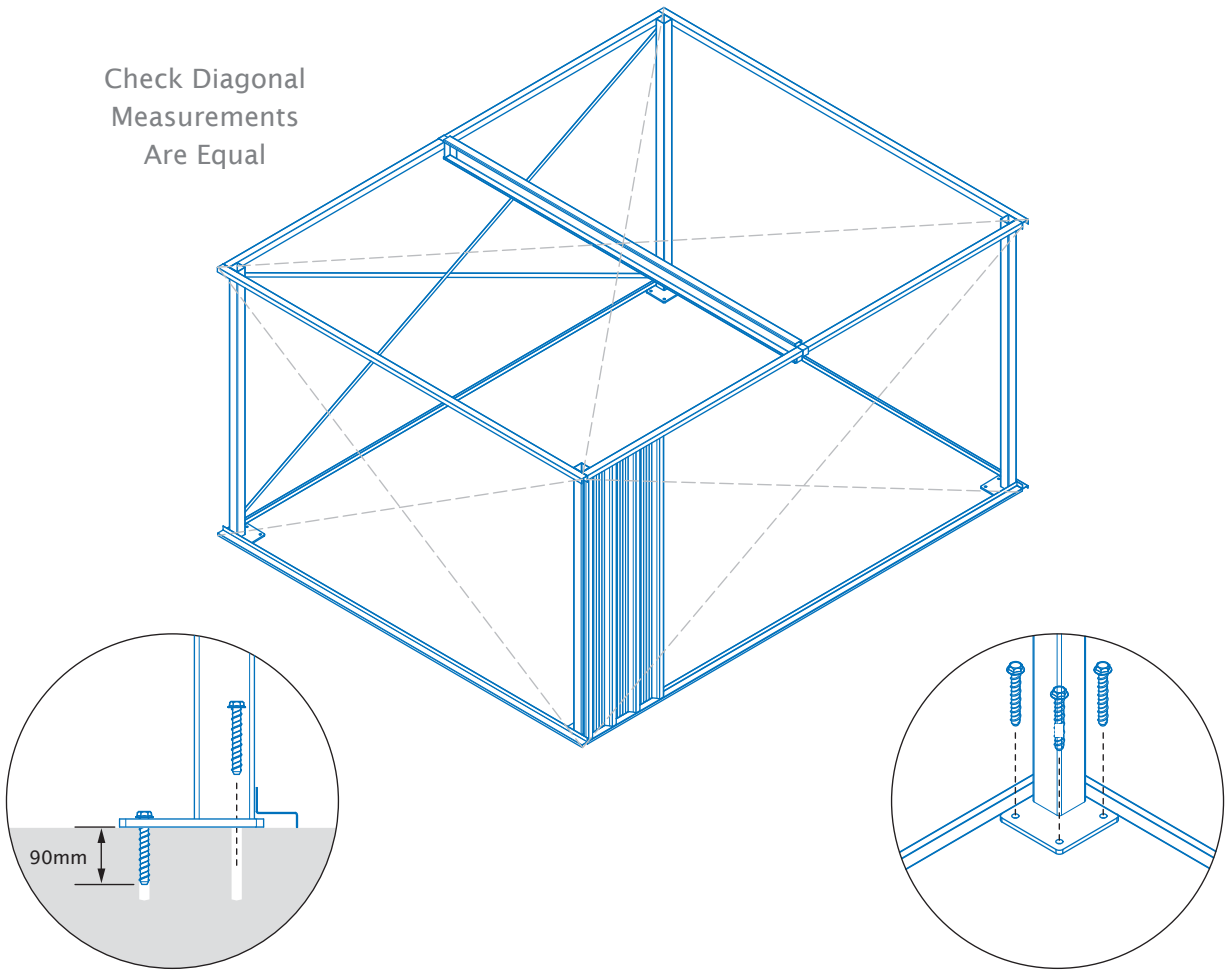


Figure 9

STEP SIX

Inspect all connections and all members for squareness and levels. Once you are satisfied proceed to fix footings to concrete slab.

Each footing is fixed with three masonry anchors no less than M12 and with a minimum 90mm embedment into concrete slab.



Diagonal Measurements

STEP SEVEN

Locate your position for the P.A. door, the example provided is for a left hand hinge door approximately 1½ sheets from the corner post (Figure 10). **Note:** Do not position door directly below C-section support beam or gutter. The space for the P.A. door can be created by half lapping one sheet over another full sheet. To eliminate cutting sheets it is recommended you temporarily locate both jambs in their approximate positions. Lay the wall sheets on the ground lining up all sheets with the intended position of the P.A. door. Proceed to install the wall sheets from the corner post working toward the door jamb from which the door will be hung (Figure 11). Refer lapping detail (Figure 45). Secure sheets with one rivet per crest at the top, two rivets per pan at the base and one rivet mid-span at the sheet lap (Figure 12).

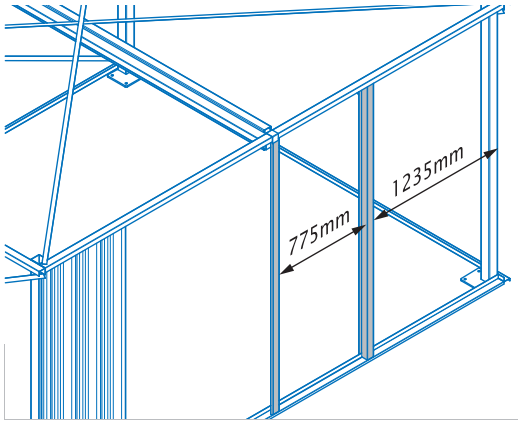


Figure 10

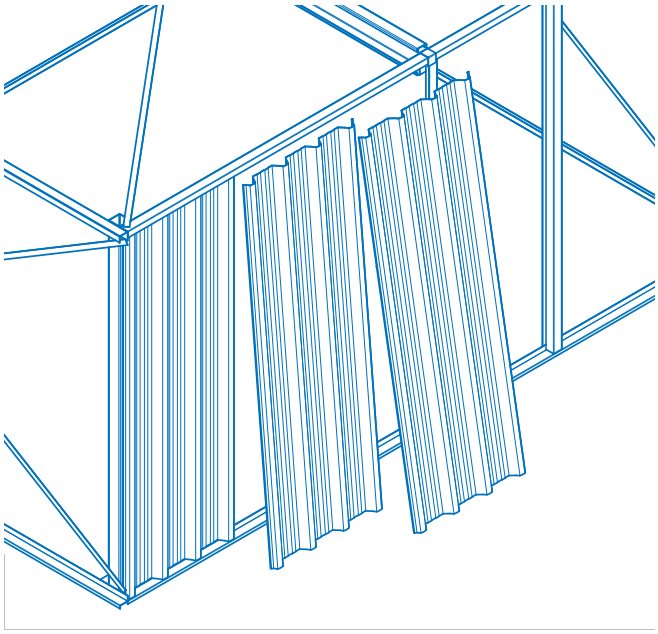


Figure 11

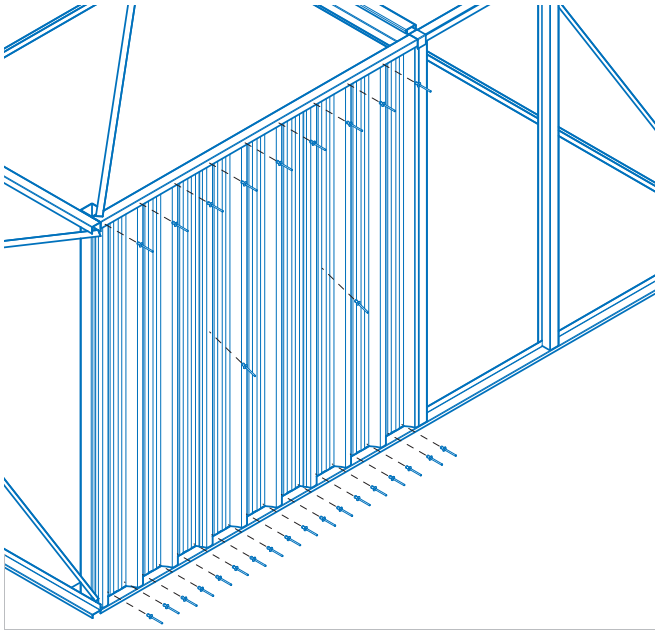


Figure 12

STEP EIGHT

Remeasure the door jambs and adjust if necessary (Figure 10). Install the remaining wall sheets working from the other corner post toward the door jamb (Figure 13), half lapping one sheet over another full sheet when required (Figure 45).

Secure sheets with one rivet per crest at the top, two rivets per pan at the base and one rivet mid-span at the sheet lap (Figure 14).

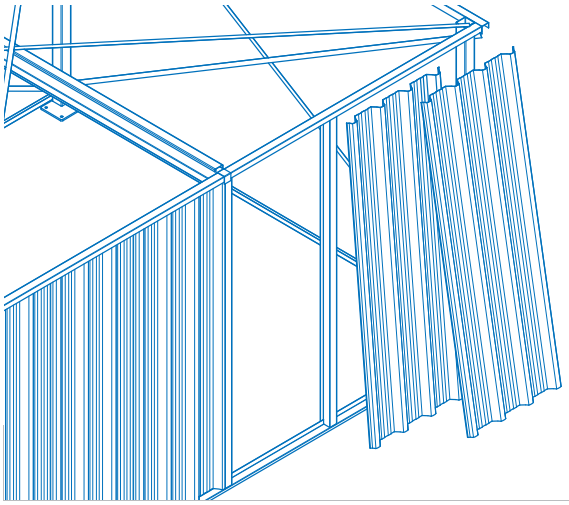


Figure 13

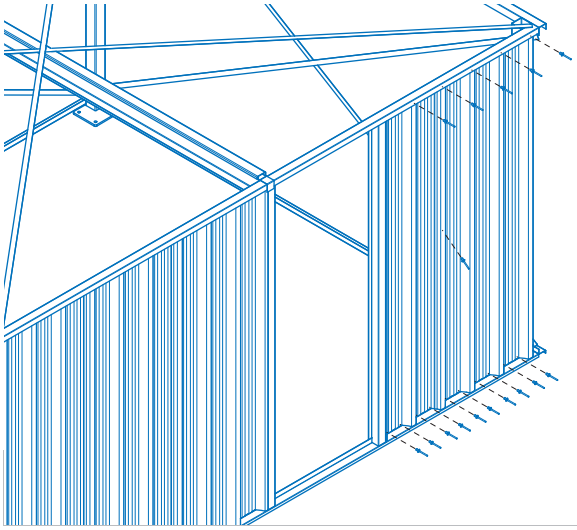


Figure 14

STEP NINE

Remeasure the door jambs and adjust if necessary (Figure 10). Install the door jamb from which the door will be hung using a 10x16 screw attached to the 55mm channel and a rivet attached to Z-rail (Figure 15). Position the door and fix to the jamb using four 10x16 wafer head screws per hinge (Figure 16). Close the door and check the position of the unfixed door jamb. The door should not touch the jamb and the gap between the door and the jambs should be equal on both sides. Ensure the Z-section door stop will fit between the door jambs (Figure 17). Install the remaining door jamb (Figure 15). Insert Z-section door stop into 55mm channel and attach with four rivets (Figure 17. Insert PA support flashing section onto Z-section and attach with three rivets (Figure 18).

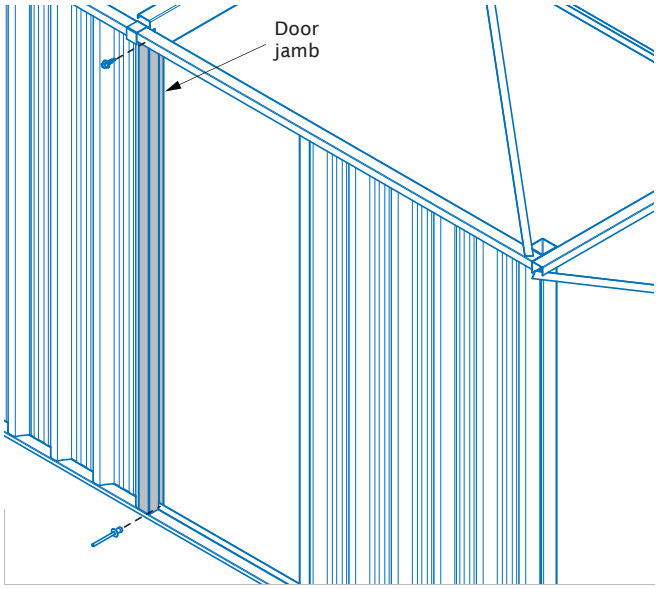


Figure 15

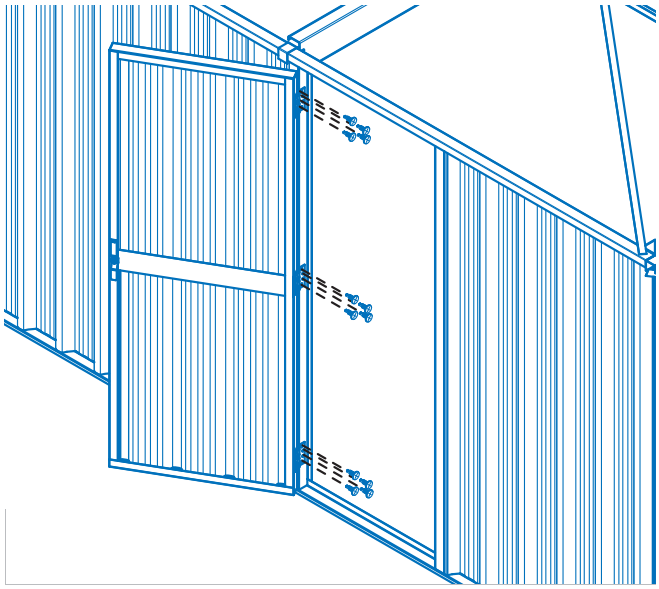


Figure 16

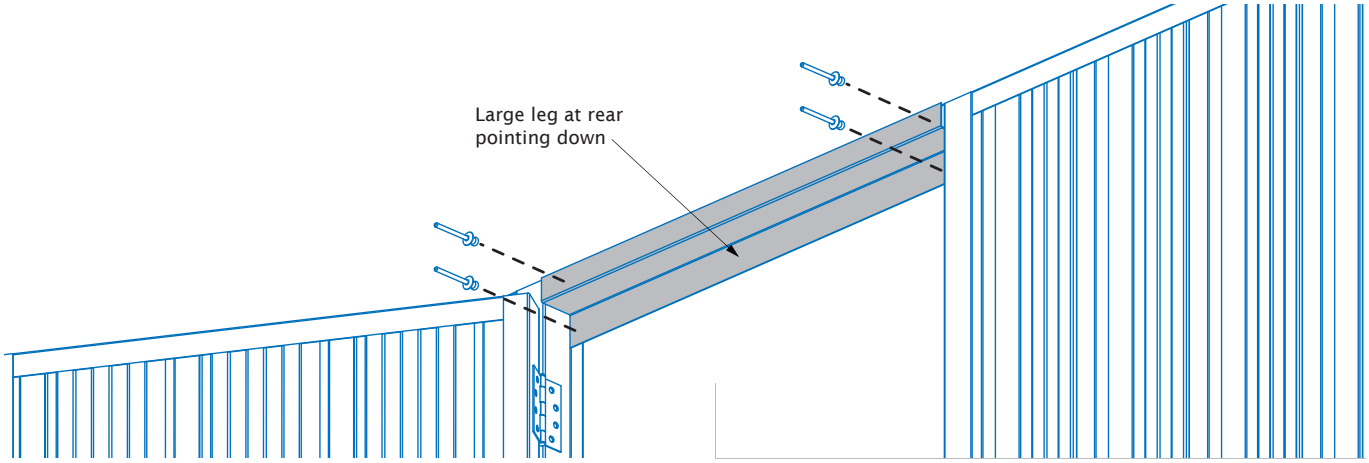


Figure 17

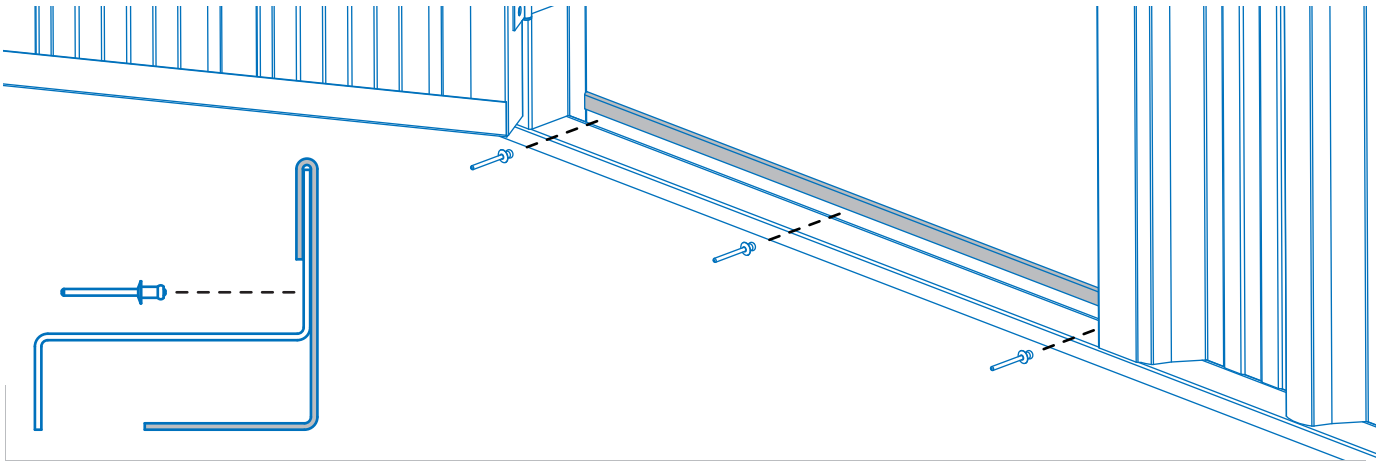


Figure 18

STEP TEN

Start the installation of the wall sheets from the rear corner and work forward. Before fixing wall sheets, trial sheet layout in the panels to ensure the last sheet fits correctly into the corner. Correct spacing of the wall sheet can best be achieved by marking top and bottom tracks and fixing sheets to these marks.

Secure sheets with one rivet per crest at the 55mm channel, two rivets per pan at the Z-rail and one rivet mid span at the sheet lap. Refer to sheet fixing details (Figure 45). Ensure all wall sheets are secured with rivets into door jambs top, bottom and mid-height. Optional dust proofing can be installed after wall sheets are fixed.

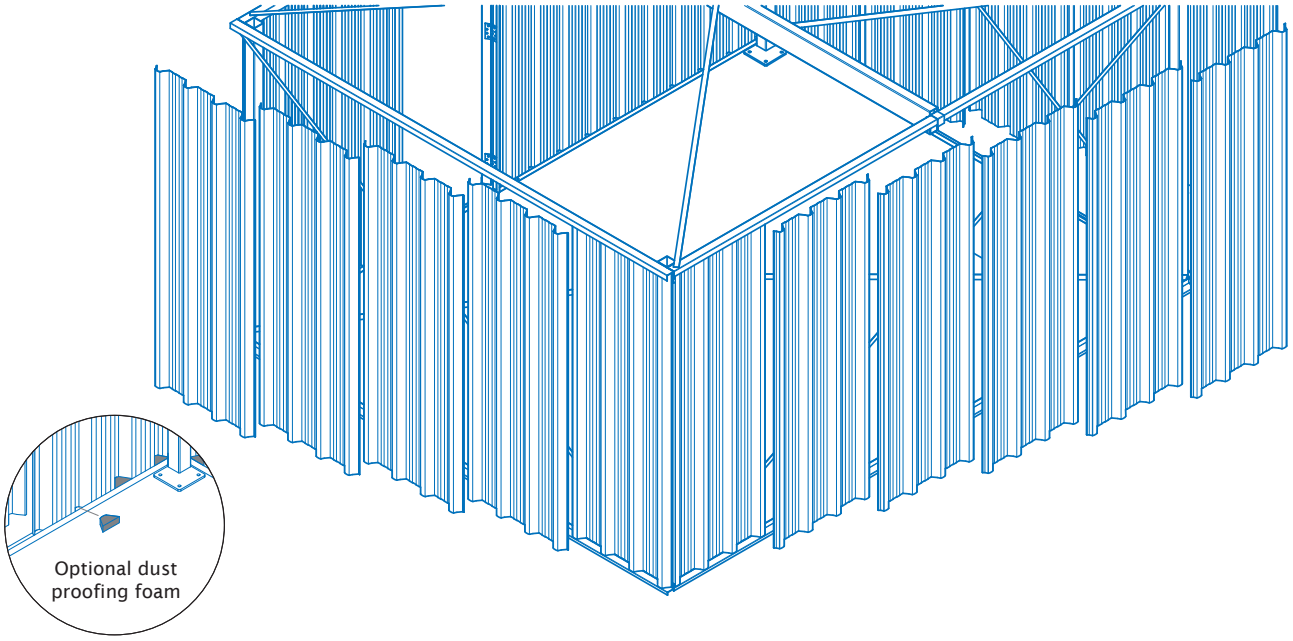


Figure 19

STEP ELEVEN

Position the corner post flashing ensuring the bottom edge is sitting on top of the Z-rail (Figure 20). Trim the top of the corner post flashing as required (Figure 21). Secure flashing with rivets at maximum 500mm centres each side starting 20mm from each end. (Figure 22). Repeat for all corners.

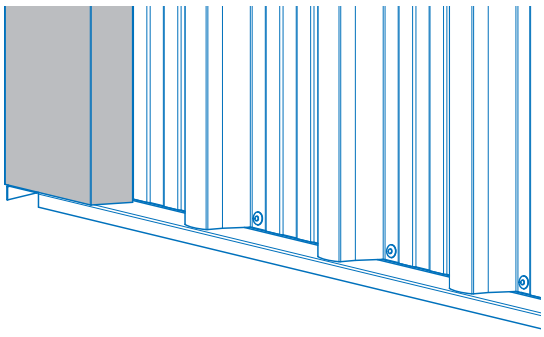


Figure 20

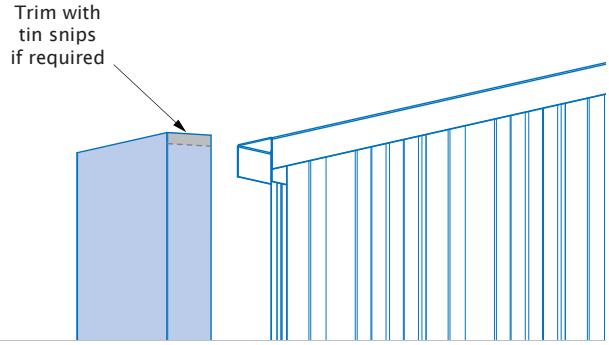


Figure 21

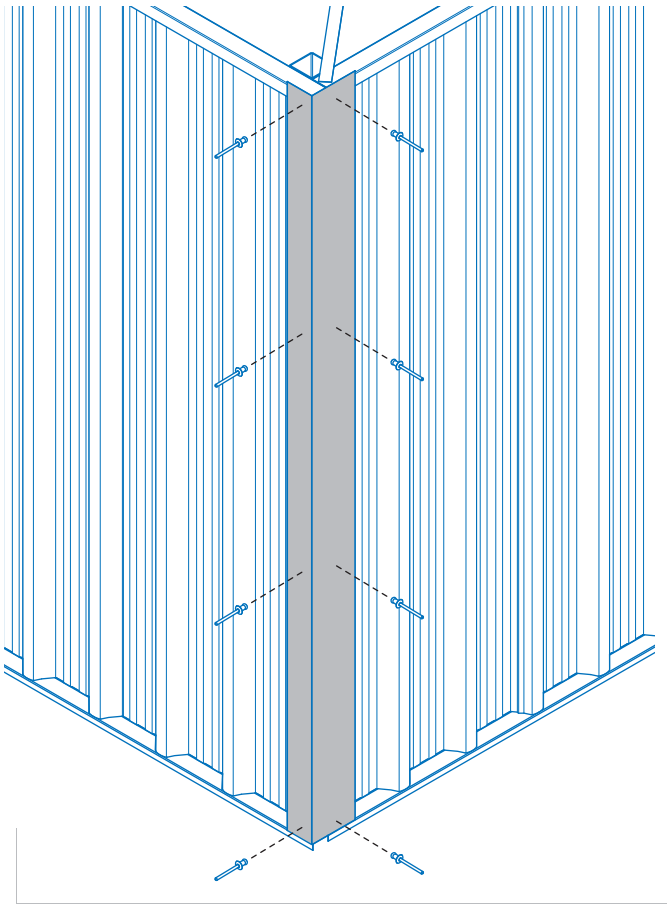


Figure 22

STEP TWELVE

Note: If you have purchased the gutter option, refer to the Gutter Option section of the instructions before completing Step Twelve. Before laying the roof sheets the pans must be turned down 45˚ to the horizontal at each end (Figure 23). Place the Prodek roof sheets on the C-section beam. Start laying the sheets from the outside edge of the top channel on the long side. Installing one sheet at a time, fix using one 10x16 screw per pan into C-section beam and top channels (Figure 25). Refer sheet fixing details (Figure 45). If translucent sheeting is used, ensure at least one steel sheet is secured each side. Translucent sheeting is not to be walked on. (Optional dust proofing foam can be placed between Prodek and top channel, refer Figure 24).

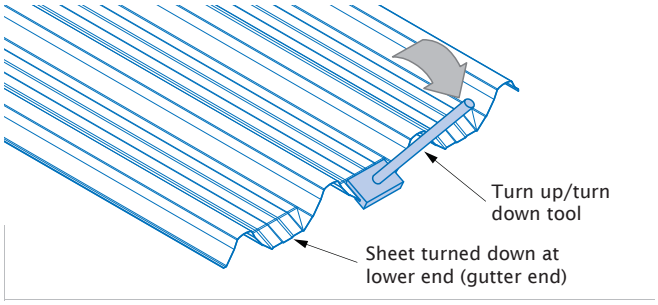


Figure 23

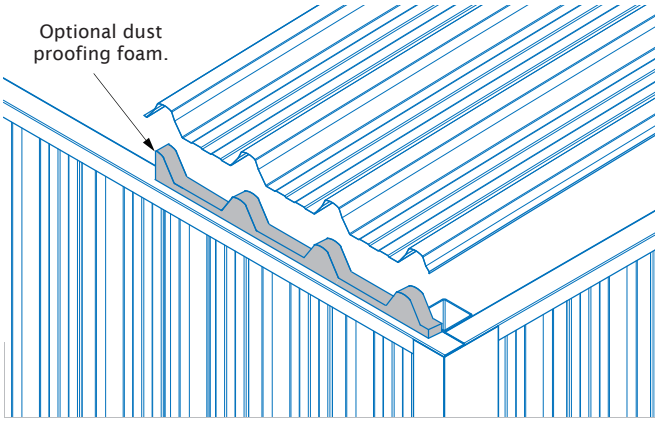


Figure 24

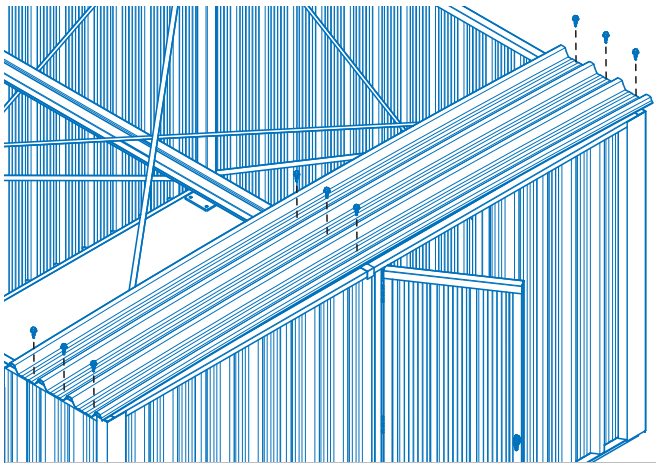


Figure 25

STEP THIRTEEN

Note: If you have purchased the gutter option, refer to the Gutter Option section of the instructions before completing Step Thirteen. Make a mark mid span on the top of the first crest of the roof and position left hand barge flashing so the end is minimum 5mm past the mark. Fix with two 10x16 screws (Figure 26). Position the right hand barge flashing so the ends overlap by minimum 10mm.

Fix two more 10x16 screws into top channel (Figure 27). Fix a 10x16 screw mid-span so that it penetrates both barge flashings and the first crest of the roof sheet. Fix two more 10x16 screws at either end again penetrating the crest of the roof sheet (Figure 27). Repeat the procedure for the opposite side.

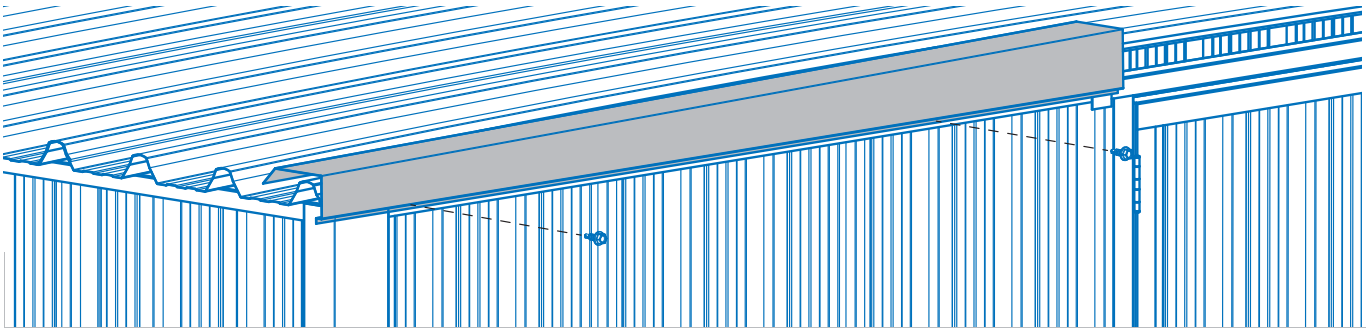


Figure 26

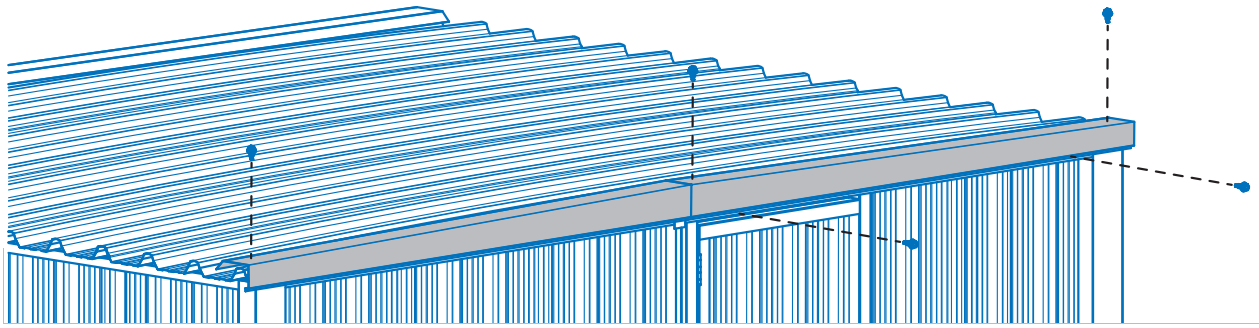


Figure 27

GUTTER OPTION

If you have chosen the gutter option for your Potter extra components will be provided as detailed in the list below. First prepare each of the gutters ready for installation. Select the location of the downpipe. Place the outlet up against the back of the gutter approximately 40mm from the end and trace around the outlet.

2 x VF gutters
2 x Left gutter stop end
2 x Right gutter stop end
8 x Universal deck straps
2 x Downpipe outlet
2 x Downpipe bracket
2 x Downpipe

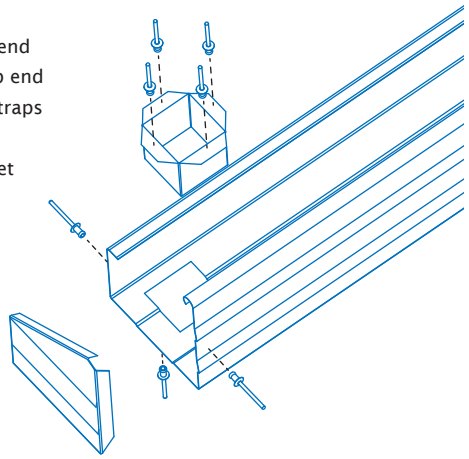


Figure 28

Using tin snips make a pair of cuts 20mm apart, 150mm from the end of the gutter. Bend the tab back over itself (Figure 30). Repeat for the other end, and create two more tabs evenly spaced with a maximum spacing of 1200mm (Figure 31).

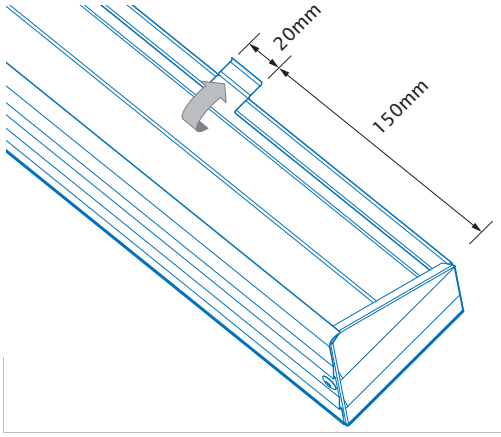


Figure 30

Once Step Twelve has been completed you can install the gutter brackets. Place a bracket under the lip of the gutter with the flat end of the bracket in the middle of the second pan of the first roof sheet in from the edge, attach to roof sheet pan with rivets (Figure 32).

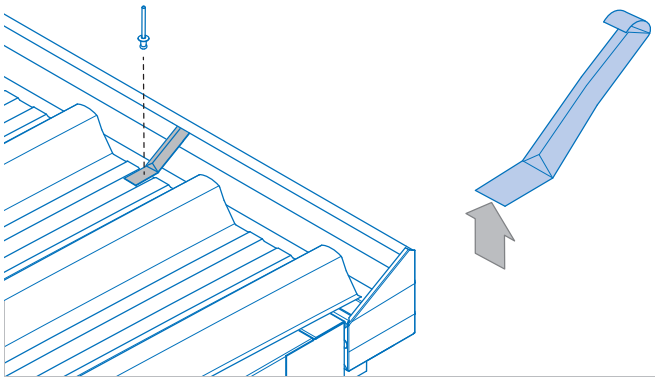


Figure 32

Cut out the appropriate sized hole to ensure the outlet fits snugly. Attach the downpipe outlet and stop ends with rivets (Figure 28). Seal around the edge of the downpipe outlet and stop ends with silicone sealant (Figure 29).

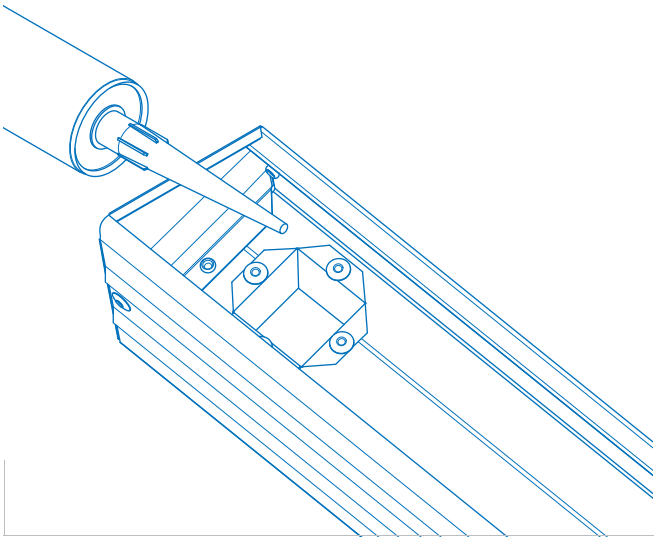


Figure 29

Attach the gutter to 55mm channel with rivets through each tab (Figure 31). Repeat for opposite gutter. Return to Step Twelve.

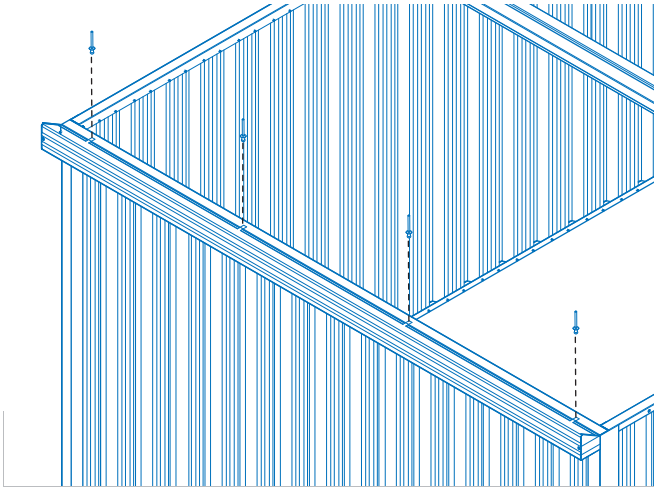


Figure 31

Repeat for remaining three brackets placing one in every fourth pan (Figure 33). After both gutters are attached return to Step Twelve.

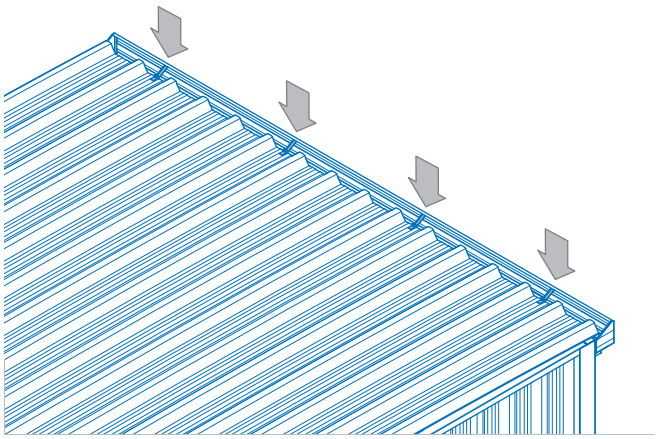


Figure 33

DOWNPIPE OPTION

Cut the downpipes to the required length, allowing room for any downpipe shoes or other optional fittings. Place the downpipe over the downpipe outlet and attach with two rivets through both sides of the downpipe (Figure 34). Seal with silicone.

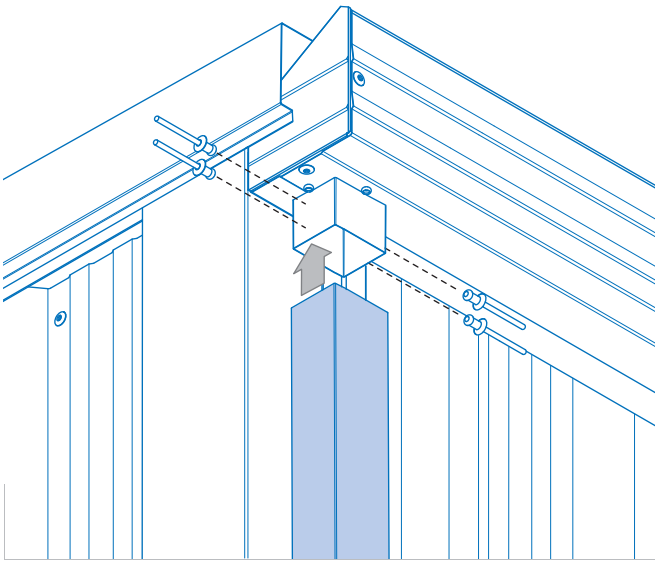


Figure 34

Place the downpipe bracket as close to the ground as possible. Fix the downpipe bracket in place using the downpipe bracket and rivets (Figure 35). Seal with silicone.

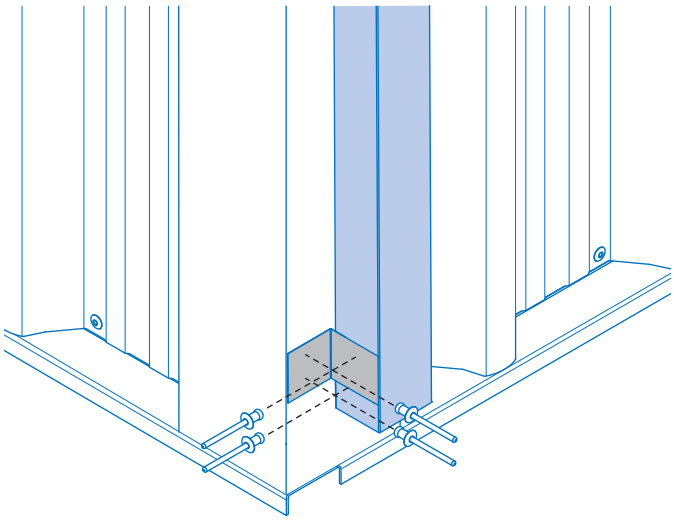


Figure 35

DOUBLE PA DOOR OPTION

If you have chosen the double P.A. door option for your Potter there will be one less wall sheet and the Z-section door stop will measure 1545mm. Included with the extra P.A. door is a seam flashing. Locate the position for the P.A. doors, the example provided is for a double door positioned one sheet from corner post (Figure 36). **Note:** Do not position centre of double door directly below C-section support beam. The space for the P.A. door can be created by half lapping one sheet over another full sheet.

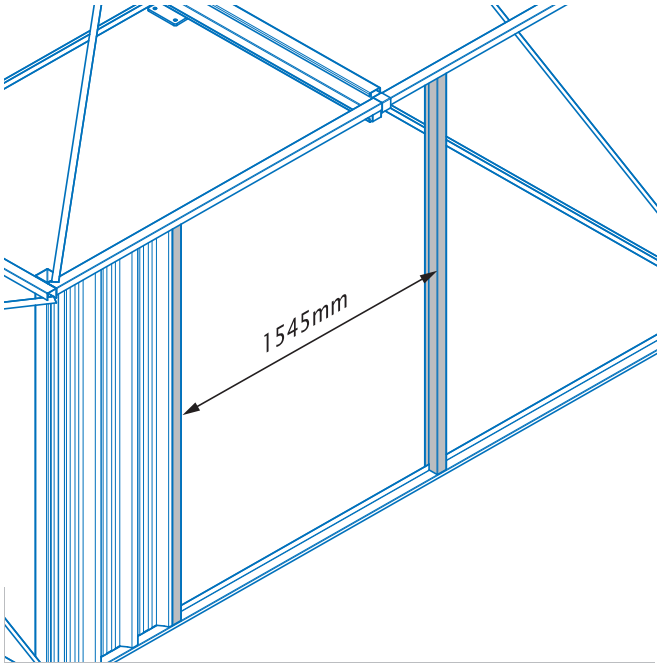


Figure 36

To eliminate cutting sheets it is recommended you temporarily locate both jambs at their approximate positions. Lay the wall sheets on the ground lining up all sheets with the intended position of the P.A. doors. Proceed to install the wall sheets from the corner post working toward the first door jamb (Figure 37). (Refer lapping detail Figure 45). Secure sheets with one rivet per crest to the 55mm channel, two rivets per pan to the Z-rail and one rivet mid-span at the sheet lap (Figure 12).

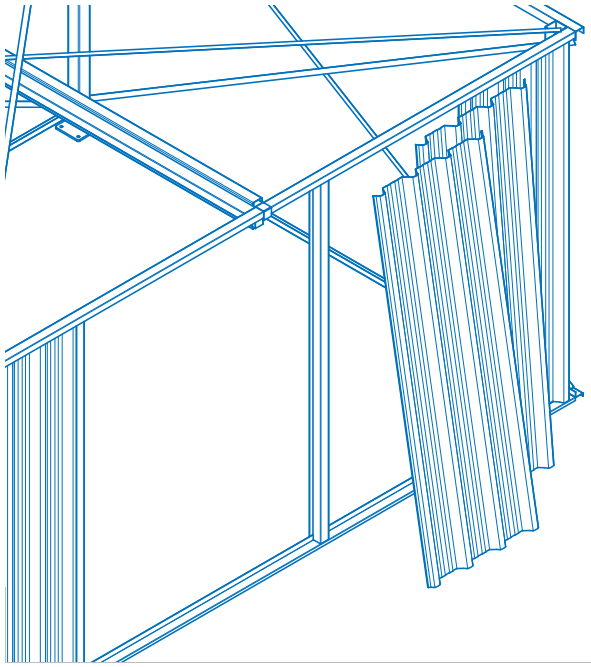


Figure 37

Remeasure the door jambs and adjust if necessary (Figure 36). Install the first door jamb using a 10x16 screw attached to the 55mm channel and a rivet attached to the Z-rail (Figure 17). Before fixing the P.A. door to the jamb decide which of the two doors will open first, the handle will attach to this door. Attach the seam flashing to the other door using four 10x16 screws with a recommended 20mm overhang (Figure 38). Position the door and fix to the jamb using four 10x16 wafer head screws per hinge (Figure 16).

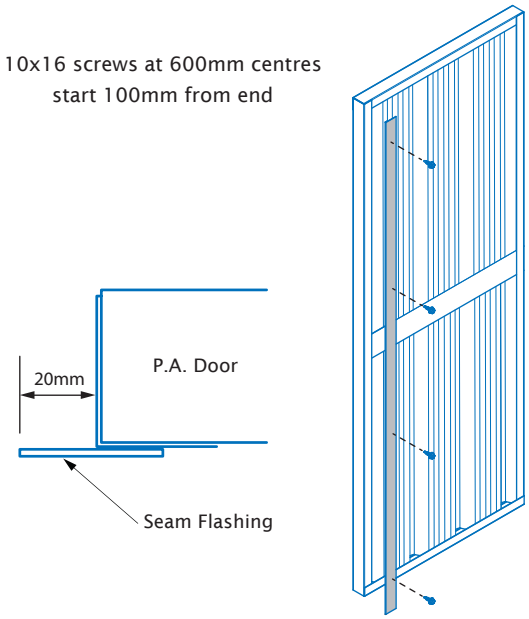


Figure 38

Close the door and check the position of the unfixed door jamb. Before fixing ensure the Z-section door stop will fit. Install the remaining door jamb (Figure 15). Insert Z-section door stop into top channel and attach with two rivets (Figure 17). Position the door and fix to the jamb using four 10x16 wafer head screws per hinge (Figure 39). Insert PA support flashing section onto Z-section and attach with five rivets (Figure 40).

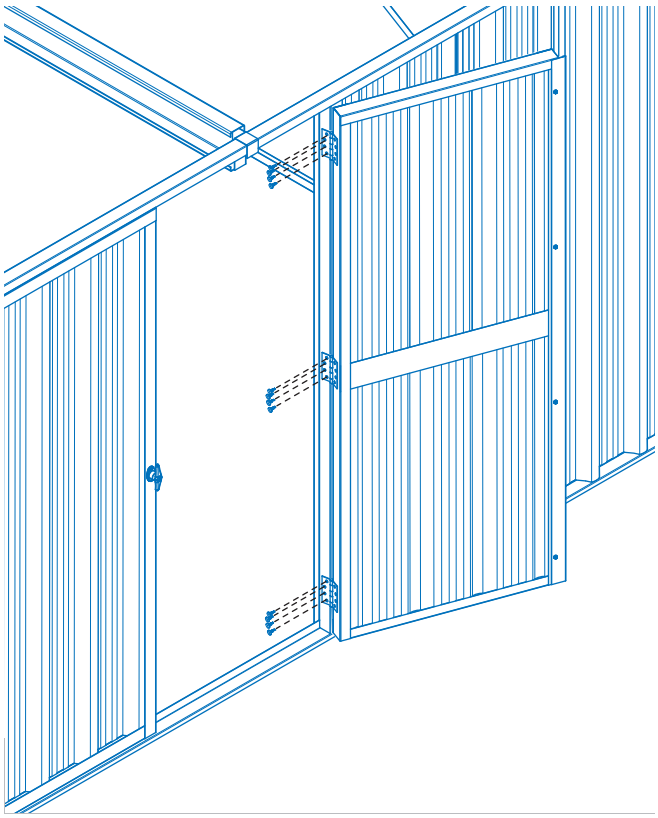


Figure 39

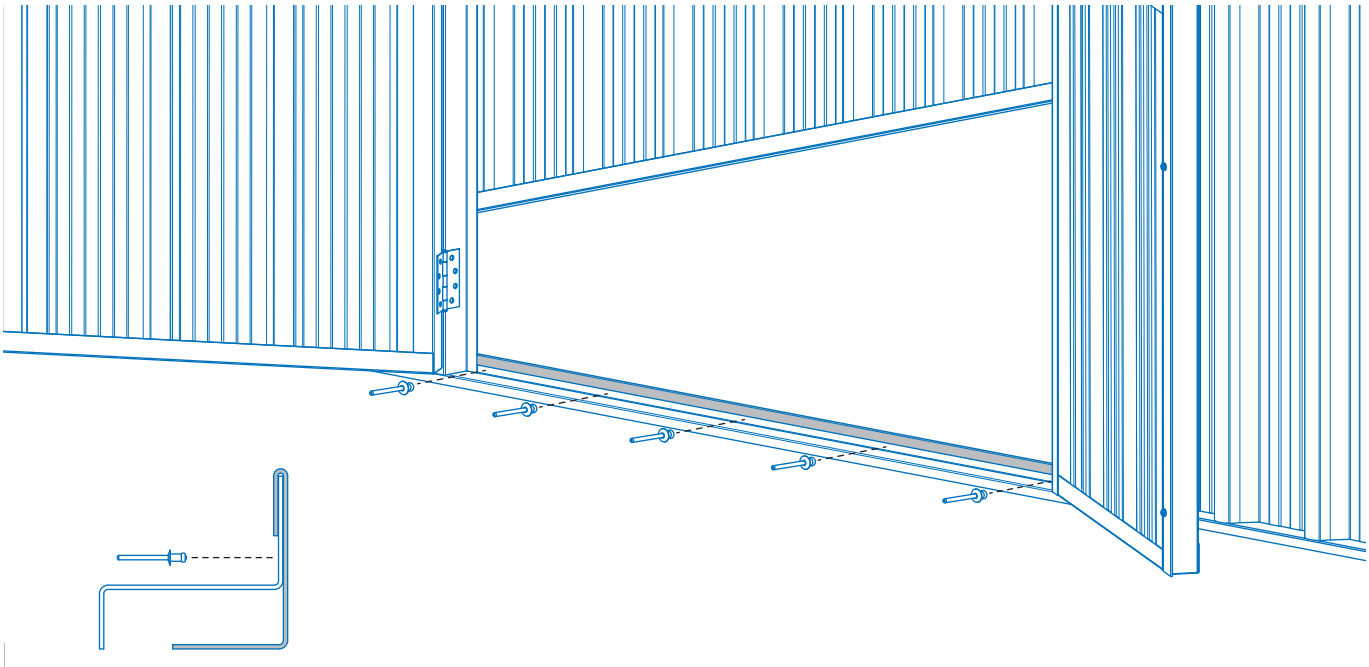


Figure 40

LOUVRED WINDOW OPTION

If you have chosen the louvred window option for your Potter, one of the 2100mm walling sheets will have to be trimmed to length with tin snips. The example provided is for a window one sheet from the corner post on the short side of the shed (Figure 41). Fix one full length wall sheet against the corner post. Then fix the trimmed sheet as previously described (Figure 45). Place the remaining sheets loosely into position and check the window will fit the opening. Ensure the wall sheets either side of the window tightly abutt the frame so no gaps occur.

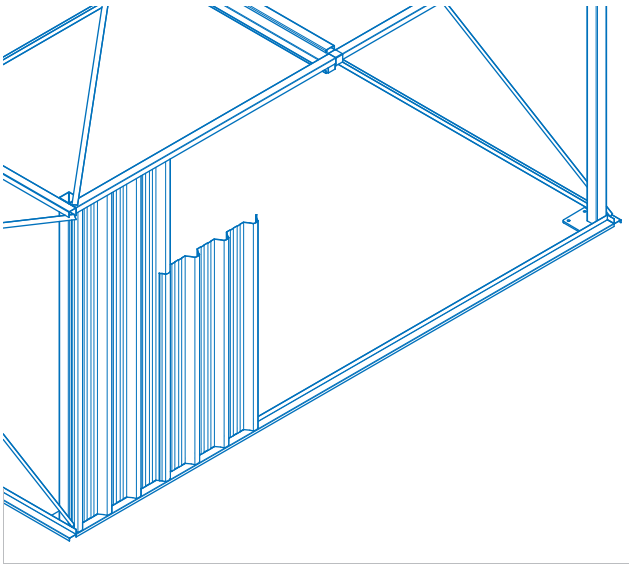


Figure 41

Correct spacing of the sheets is best achieved by marking the top and bottom tracks and fixing the sheets to these marks. Fix the remaining sheets working back from the corner post (Figure 45). Place the pre-assembled louvred window into the opening and check for squareness. Install with rivets securing the window frame to the crests of the wall sheet and evenly spaced around the remaining frame (Figure 42). Place a bead of silicone in each corner of the window to prevent water entry.

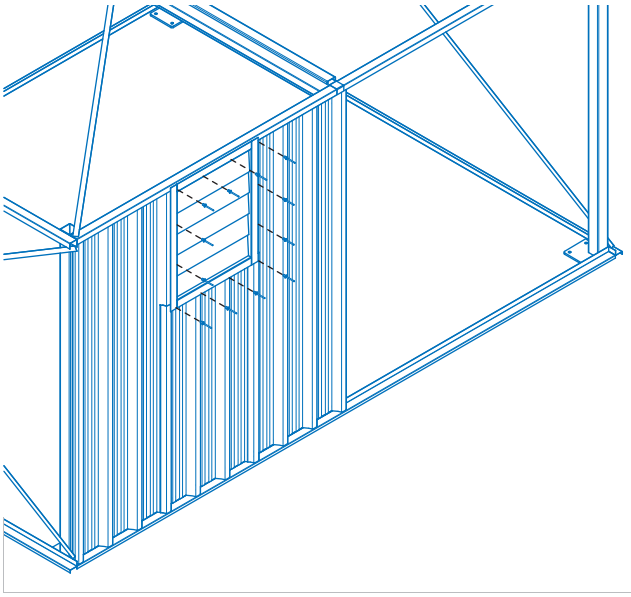


Figure 42

SLIDING WINDOW OPTION

If you have chosen the sliding window option for your Potter, two of the 2100mm walling sheets will have to be trimmed to length with tin snips. The example provided is for a window one sheet from the corner post on the short side of the shed (Figure 43).

Note: Do not position the window centrally below the C-section support beam. Fix one full length wall sheet against the corner post. Then fix the two trimmed sheets as previously described (Figure 45). Place the remaining sheets loosely into position and check the window will fit the opening.

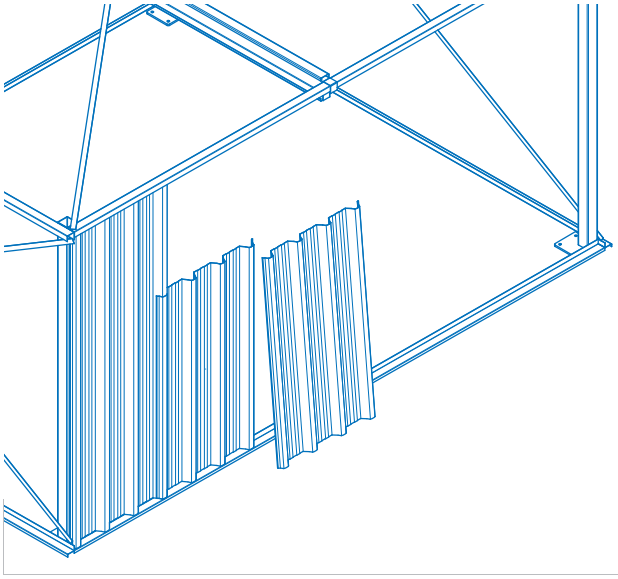


Figure 43

Ensure that the wall sheets either side of the window tightly abutt the frame so no gaps occur. Correct spacing of the sheets is best achieved by marking the top and bottom tracks and fixing the sheets to these marks. Fix the remaining sheets working back from the corner post (Figure 45). Place the pre-assembled sliding window into the opening and check for squareness. Install with rivets securing the window frame to the crests of the wall sheet and evenly spaced around the remaining frame (Figure 44). Place a bead of silicone in each corner of the window to prevent water entry.

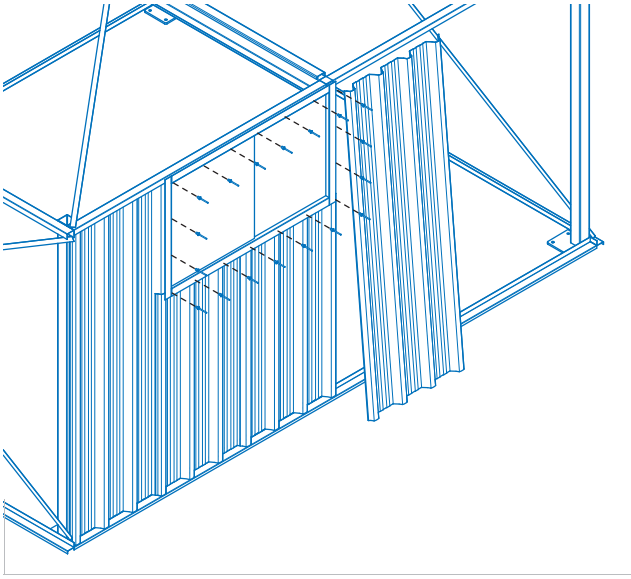


Figure 44

FIXING DETAIL

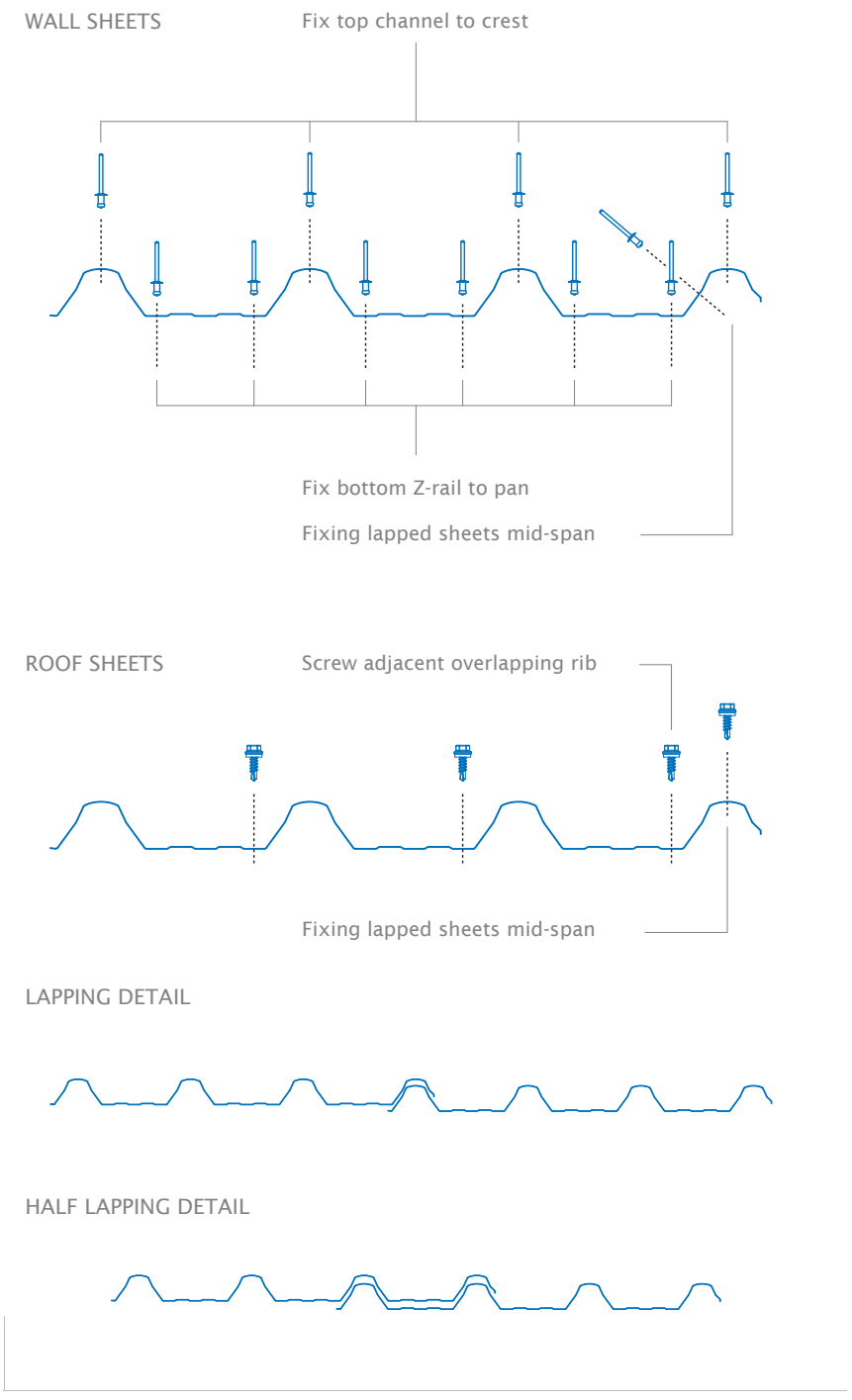


Figure 45

MAINTENANCE

Your Stratco Flat Roof Homeshed will maintain its good looks for even longer with a simple wash and wipe down. Cleaning should be performed as often as is required to remove any dirt, salt and pollutants.

Stratco Homesheds are produced from the highest quality materials and will provide many years of service, refer to the 'Selection Use and Maintenance' brochure for more information on how to get the best out of your product.

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