# How To.
INSTALLATION GUIDE

## COUNCIL APPROVAL

It is important to contact your local council before building your Stratco Gable Roof Shed. You will have already received a Council application form from Stratco, including an exploded view and a plan view of the proposed structure.
It is important to draw a plan view of your Gable Roof Shed on the second page of your "Council Copy" form. This view can be copied from Figure 1 on page two. You must include the distances from the boundaries and existing buildings.

## BEFORE STARTING

Confirm that all of the material listed on the delivery document has been supplied. Carefully read these instructions to ensure you are familiar with all the steps involved. Ensure you have the correct tools and equipment for the job as listed on page two.

## TOOLS REQUIRED

| | | | | | | |
|---|---|---|---|---|---|---|
| Safety Glasses | Gloves | Step Ladder | Tape Measure | Spirit Level | String Line | Rubber Mallet |
| Grips<br>Pliers<br>Locking Pliers | CuttingTools<br>Hacksaw<br>Angle Grinder | Tin Snips | Power Drill | Hex Head Adapter | Phillips Head Adapter | Drill Bits (Assorted) |
| Rivet Gun | Socket Set | Adjustable & Combination Spanner | Spray Lubricant | Adhesive Tape | Clamps | Caulking Gun & Silicon |

# STRATCO GABLE ROOF SHED

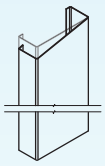
DOMESTIC INSTALLATION GUIDE

## CONTENTS

# COMPONENTS

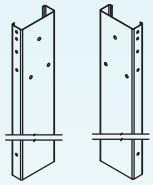
## FRAME

Internal Column

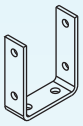


Mitred on site

Portal Columns

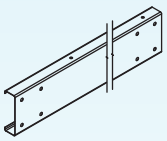


Stirrup

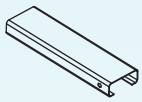


Portal Columns, Internal Columns, Gable End Columns

Rafter

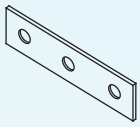


Wall Girt & Roof Purlin

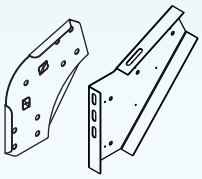


75 C-Section

Girt / Purlin Joining Plate

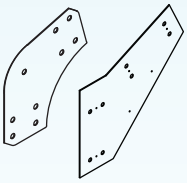


Eaves Bracket

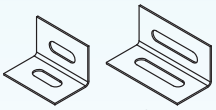


15, 22, 25, 27.5, 30, 40 & 45 degree pitches available.

Strengthening Washer Plate

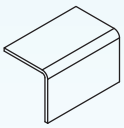


Angle Connector



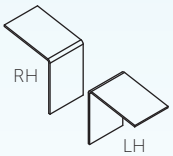
100mm 150mm

Girt Bracket

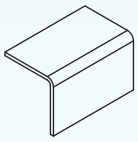


40x40x66mm

Apex Bracket




Header Beam Bracket

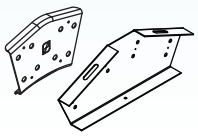


35x35x75mm

Raking Angle

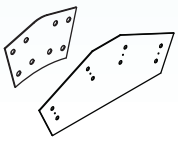
Ridge Connection

Ridge Bracket

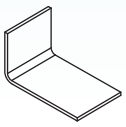


15, 22, 25, 27.5, 30, 40 & 45 degree pitches available.

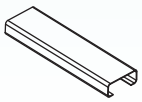
Strengthening Washer Plate



75mm Bridging Bracket

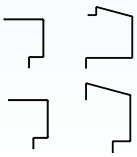


75mm Bridging Girt



75 C-Section

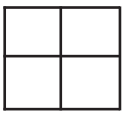
Garaport Flashings



Standard (Left)
Hiland Tray (Right)

## SLIDING DOOR

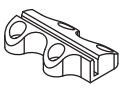
Sliding Door Frame



Sliding Door Frame Fixings

Carriage Wheels

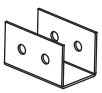
Tracking Pad



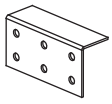
Sliding Door Header Beam Bracketry

50mm Header Beam Bracket

Gutter Side Header Beam Bracket



Gutter Side Header Beam Bracket Joiner



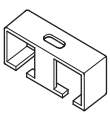
Sliding Door Track Bracketry

Sidefix Support

Single Bracket

Track Supports

Double Track Bracket

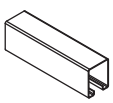


Single Track Bracket

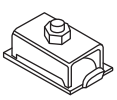
M10x20 Sidefix Support Bolt & Washer

Track Support Bolt

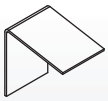
Track



Track Stop

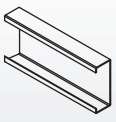


Apex Bracket



Sliding Door Header Beam

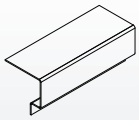
150 C-Section



Filler Column (When Required)

100 C-Section

Gable End Single Sliding Door Spacer Flashing

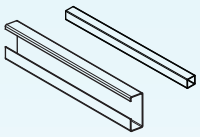


# COMPONENTS

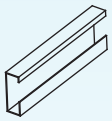
## ROLLER DOOR

Roller Door - Gable End

Header Beam
100mm C-Section
50mm/65mm SHS



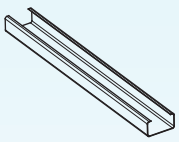
Connector Sleeve



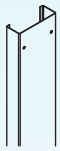
Door Jamb
20015
C-Section

Roller Door - Gutter Side

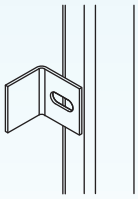
Header Beam
75mm C-Section



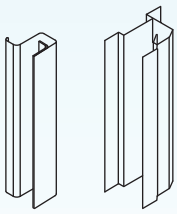
Door Jamb
20015
C-Section



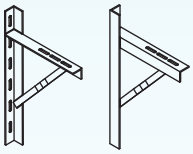
Roller Door Guide
Lug



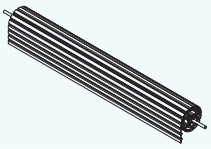
Roller Door Guide



Roller Door Support
Brackets



Roller Door



## SHEETS

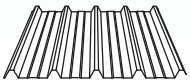
Wall Sheet
(Stratco
Superdek®)

Gable Wall
Sheet (Stratco
Superdek®)

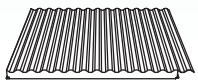
Mitred - Standard
Widths Only

Roof Sheet
(CGI)

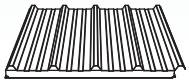
Sliding Door
(Stratco
Superdek®)



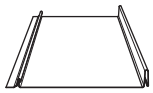
Cooldek CGI
QLD, NSW, VIC and SA -
1000mm Cover
WA - 762mm Cover



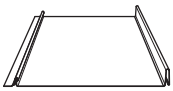
Cooldek Classic
QLD, NSW, VIC and SA -
1000mm Cover
WA - 762mm Cover



Hiland Tray
QLD, NSW, VIC and WA
Nailstrip, 265mm Cover
38mm Rib Height

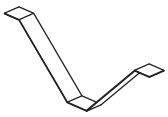


Hiland Tray
SA
Nailstrip, 320mm Cover
38mm Rib Height



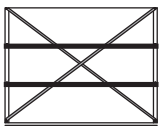
## BRACING

Fly
Brace



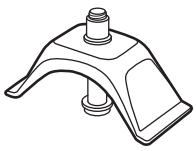
25x1.0
G300 Strap

Diagonal
Bracing



30x1.2 or 50x1.6
G300 Strap

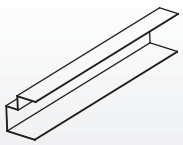
Strap Brace
Tensioner



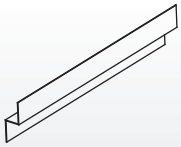
## PERSONAL ACCESS (PA) DOOR

PA Door Frame

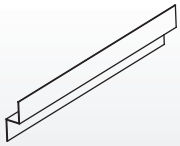
PA Door Mullion



PA Door 'Z' Mullion

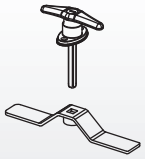


PA Door Header



PA Door 45mm
Angle Bracket

Door Handle +
Tongue

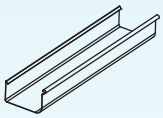


# COMPONENTS

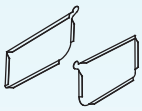
## EXTERNAL GUTTERS

QLD- 125 Quad Gutter

Gutter



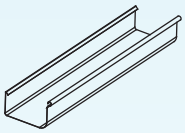
Stop Ends



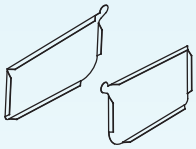
Gutter Bracket

NSW, VIC, and SA - 115 Quad Gutter

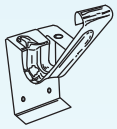
Gutter



Stop Ends

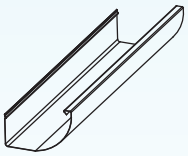


Gutter Bracket

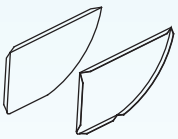


WA- Quarter Round Gutter

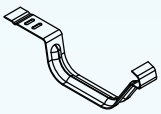
Gutter



Stop Ends



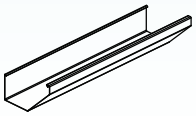
Gutter Bracket



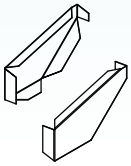
P-Clip

National - 160 Edge Gutter

Gutter

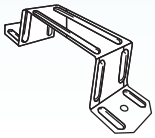


Stop Ends

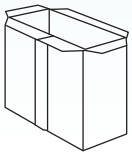


Gutter Strap

Downpipe Straps



Downpipe Outlet



Downpipe

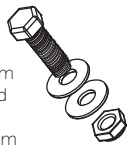
## FIXINGS

Bolts

Purlin / Girt

M12x30mm Grade 8.8 (High Tensile) Flanged Purlin Bolts

Single Sliding Door



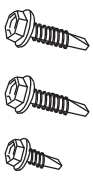
M8x75mm Hex Head or M8x90mm Hex Head

Sliding Door Gutter Side Header Beam

M12x30mm Fascia Bolts

Self Drilling Screws

Standard

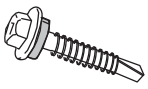


14x20

12x20

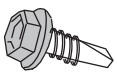
10x16

Roof CGI



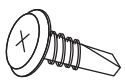
12x35 OR M6x50mm Timber/Steel

Wall Superdek®



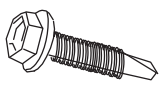
10x16

Wafer Head



10x16

Series 500



12x38

Cyclonic Washer Plate (Cooldek Roof)

To suit CGI and Superdek

On Concrete (Pinned)

M12 or M16 Chemical Injection Anchor

N12 Threaded Rod + Chemical Injection



Tracking Pad Fixing

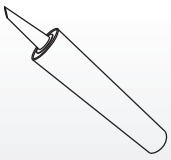
M8x65 Masonry Anchor



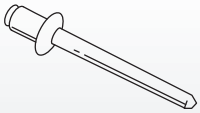
Threaded Rod

M12
M16
M20

Chemical Injection

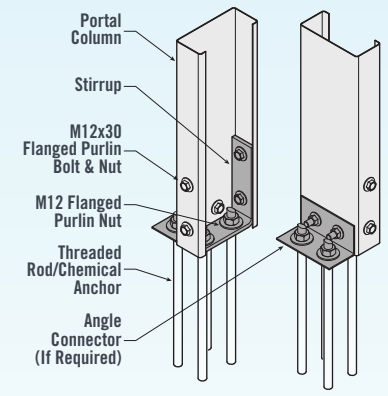


3.2mm Rivet

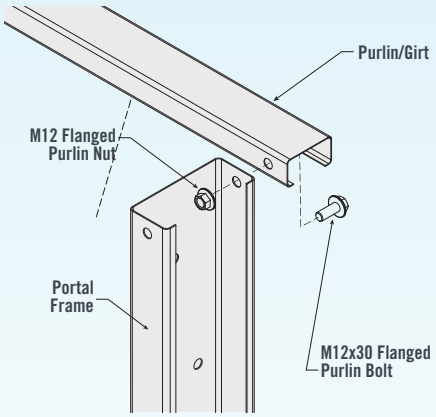


# FRAMEWORK - TYPICAL CONNECTIONS

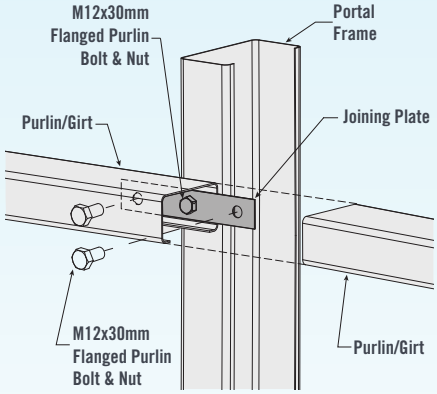
## STIRRUP FOOTING



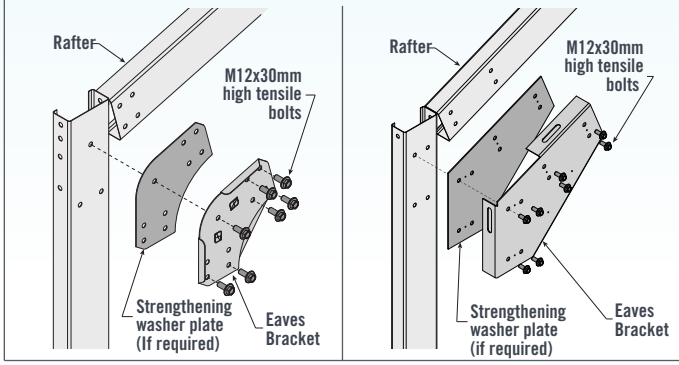

## PURLIN/GIRT TO PORTAL FRAME



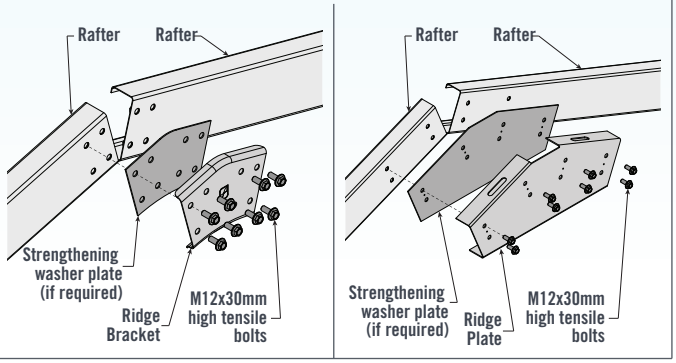

## PURLIN/GIRT JOINER



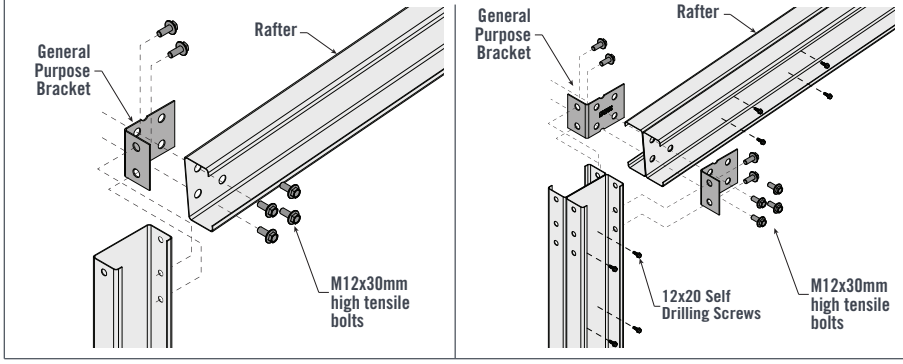

## EAVE CONNECTION - GABLE ROOF



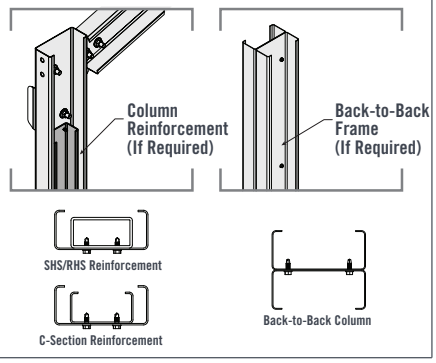

## RIDGE CONNECTION



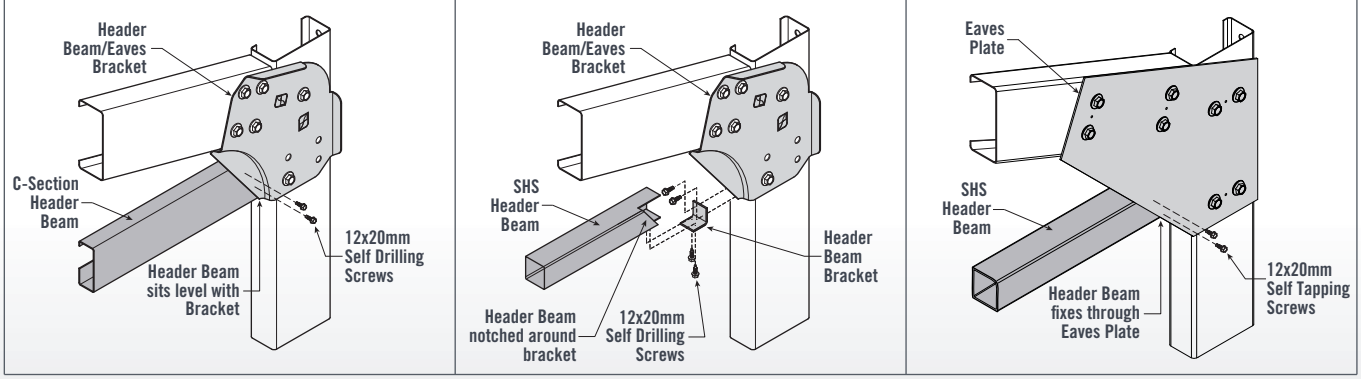

## EAVE CONNECTION - SKILLION ROOF



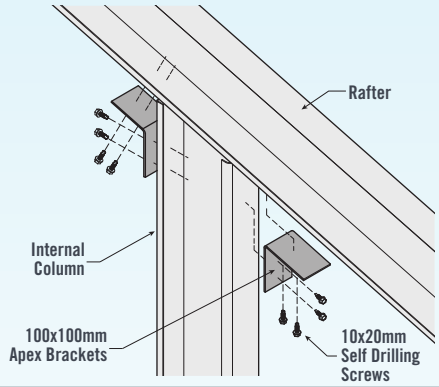

## PORTAL REINFORCEMENT



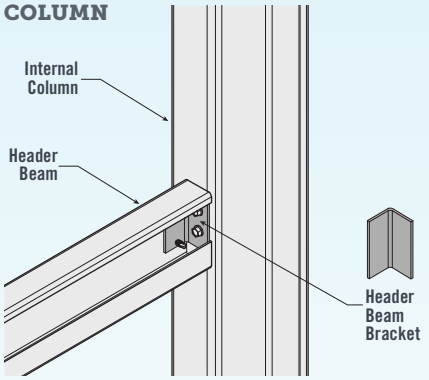

## GABLE END HEADER BEAM CONNECTION



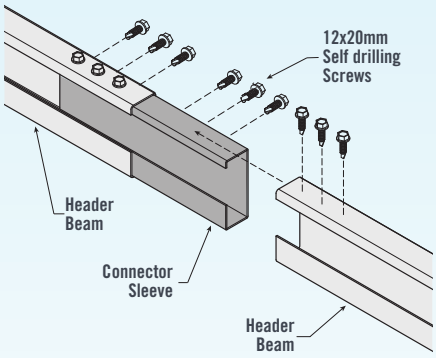
## INTERNAL COLUMN TO RAFTER



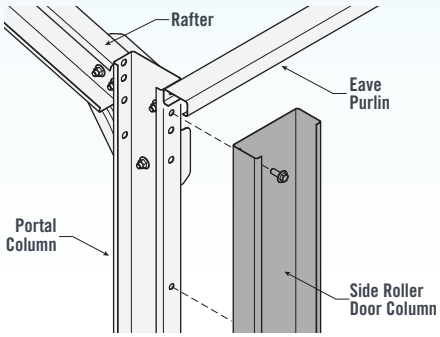

## HEADER BEAM TO INTERNAL COLUMN



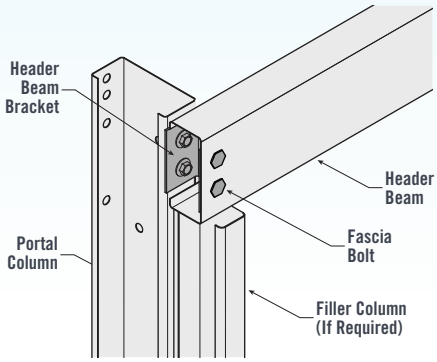

## HEADER BEAM CONNECTOR SLEEVE



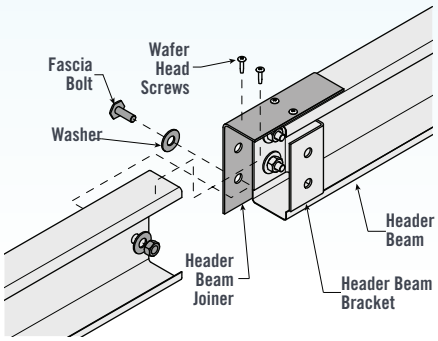

## GUTTER SIDE ROLLER DOOR COLUMN



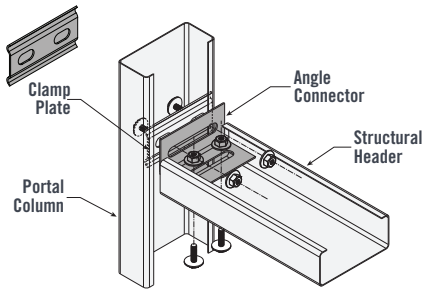

## GUTTER SIDE HEADER BEAM



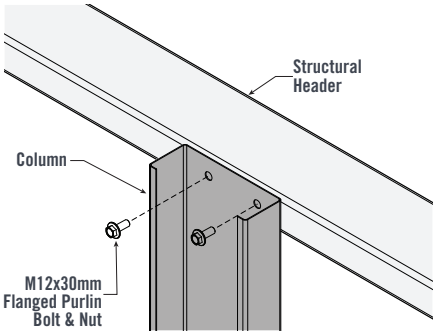

## GUTTER SIDE HEADER BEAM JOINER



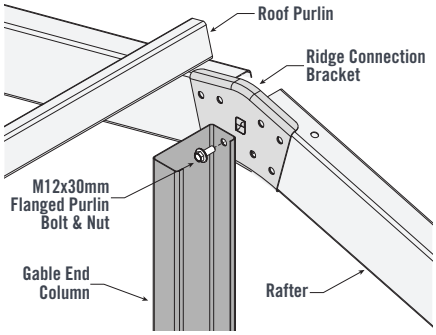

## GLASS SLIDING DOOR HEADER BEAM TO PORTAL COLUMN



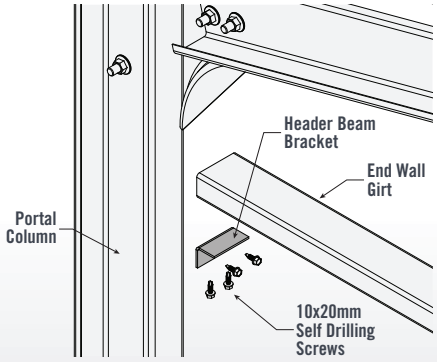

## GLASS SLIDING DOOR COLUMN TO HEADER BEAM



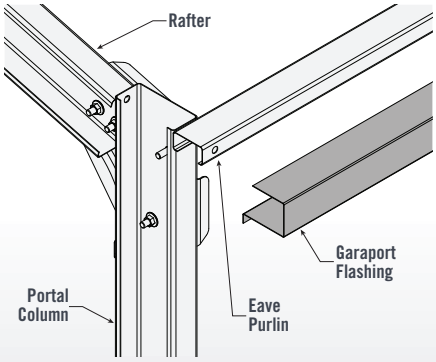

## END COLUMN TO RIDGE BRACKET



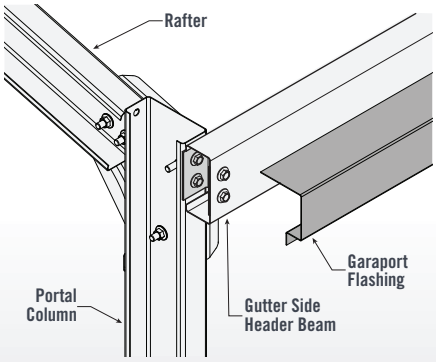

## END WALL GIRT CONNECTION




## GARAPORT FLASHING (C75)




## GARAPORT FLASHING (C150)



## SITE PREPARATION

Determine the position of the Gable Roof Shed. If the ground is uneven or sloped, ensure that the slope does not exceed more than 150mm.

If your Gable Roof Shed is being fixed onto a concrete slab refer to Page 9, Fixing onto Concrete (Pinned).

Mark out the footing hole locations as specified in Figure 1 and Table 1. Check that the corner to corner measurements are equal.

Figure 1 shows the orientation of the columns and the slab layout. Table 1 provides slab dimensions, fixing to concrete slab and footing hole locations.

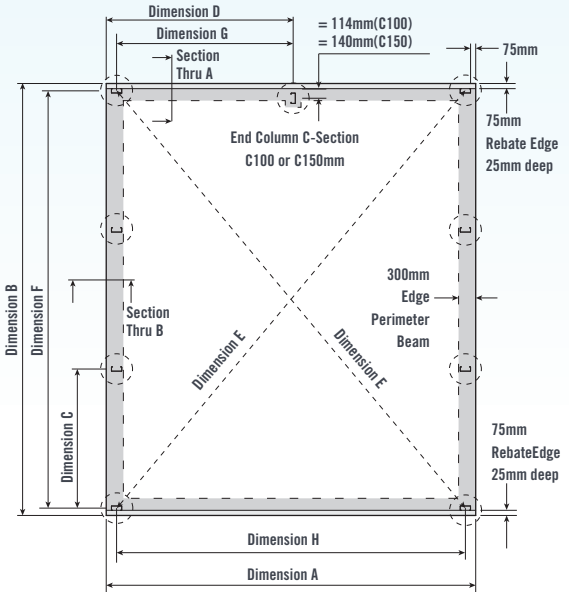



FIGURE 1

Mark out the slab dimensions as specified in Table 1 and check that the corner to corner measurements are equal.

The outside edge of your slab shall be 75mm from the outside face of the columns.

If a rebate is required, ensure the top of the rebate begins in-line with the outside face of the columns, see Figure 2.

Refer to Construction Footing Report 50098-6 for more information regarding the perimeter beam and other slab requirements.

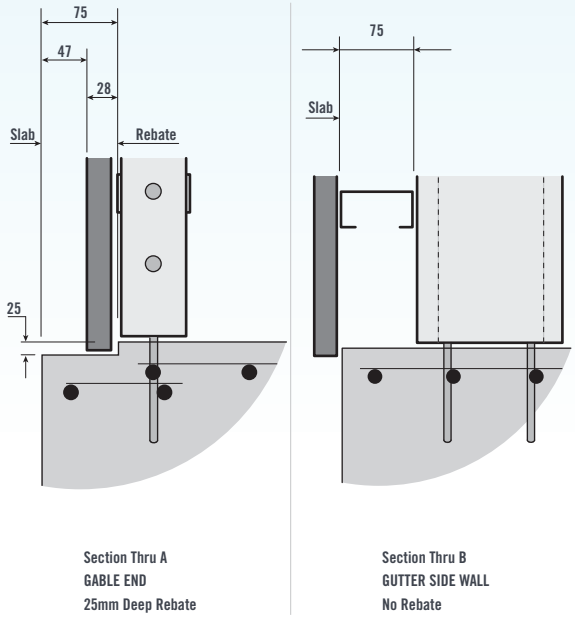



FIGURE 2

### TABLE 1: SLAB DIMENSIONS, FIXING TO CONCRETE SLAB AND FOOTING HOLE LOCATIONS

| Shed Details | | Slab Dimensions | | Column and Footing Locations (mm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Size | Width x Length (mm) | A | B | C | D | E | F | G | H |
| G0 | 3159 x 3165 | 3103 | 3259 | - | - | 4195 | 3045 | - | 2801 |
| G1 | 3159 x 6207 | 3103 | 6301 | 3045 | - | 6701 | 6087 | - | 2801 |
| G2 | 3159 x 7731 | 3103 | 7825 | 2537 | - | 8111 | 7611 | - | 2801 |
| G3 | 3159 x 9255 | 3103 | 9349 | 3045 | - | 9555 | 9135 | - | 2801 |
| G4 | 3921 x 6207 | 3865 | 6301 | 3045 | - | 7051 | 6087 | - | 3563 |
| G5 | 3921 x 7731 | 3865 | 7825 | 2537 | - | 8404 | 7611 | - | 3563 |
| G6 | 3921 x 9255 | 3865 | 9349 | 3045 | - | 9805 | 9135 | - | 3563 |
| G7 | 5445 x 6207 | 5389 | 6301 | 3045 | 2726 | 7933 | 6087 | 2568 | 5087 |
| G8 | 5445 x 7731 | 5389 | 7825 | 2537 | 2726 | 9155 | 7611 | 2568 | 5087 |
| G9 | 5445 x 9255 | 5389 | 9349 | 3045 | 2726 | 10456 | 9135 | 2568 | 5087 |
| G10 | 5445 x 12303 | 5.389 | 12397 | 3045 | 2726 | 13202 | 12183 | 2568 | 5087 |
| G11 | 6207 x 6207 | 6151 | 6301 | 3045 | 3107 | 8442 | 6087 | 2949 | 5849 |
| G12 | 6207 x 7731 | 6151 | 7825 | 2537 | 3107 | 9599 | 7611 | 2949 | 5849 |
| G13 | 6207 x 9255 | 6151 | 9349 | 3045 | 3107 | 10847 | 9135 | 2949 | 5849 |
| G14 | 6207 x 12303 | 6151 | 12397 | 3045 | 3107 | 13514 | 12183 | 2949 | 5849 |
| G15 | 6969 x 6207 | 6913 | 6301 | 3045 | 3488 | 8987 | 6087 | 3330 | 6611 |
| G16 | 6969 x 7731 | 6913 | 7825 | 2537 | 3488 | 10081 | 7611 | 3330 | 6611 |
| G17 | 6969 x 9255 | 6913 | 9349 | 3045 | 3488 | 11276 | 9135 | 3330 | 6611 |
| G18 | 6969 x 12303 | 6913 | 12397 | 3045 | 3488 | 13861 | 12183 | 3330 | 6611 |

## FOOTING INTO CONCRETE (FIXED)

Dig the column holes as specified in Figure 3, 4, 5 and Table 2.

If you are pouring a concrete slab, the slab must be a minimum of 100mm deep, see Figure 4 and Table 2.

Use string line and a spirit level to ensure the holes are level with each other. Measure each hole depth to ensure the Gable Roof Shed will stand level when the walls are placed in position.

Fill the base of each hole with approximately 200mm of concrete. This will ease settlement and make up the distance between the base of the column and bottom of the hole.

Before the concrete sets, score the top of the concrete and place a brick in the hole, see Figure 3,4 and 5. Allow the concrete to set.

If you are installing a PA door, dig the door mullion footings at 300 wide x 300mm deep, see Page 14, Personal Access Door details.

Slab is to be minimum 100mm thickness, reinforced with SL72 fabric.

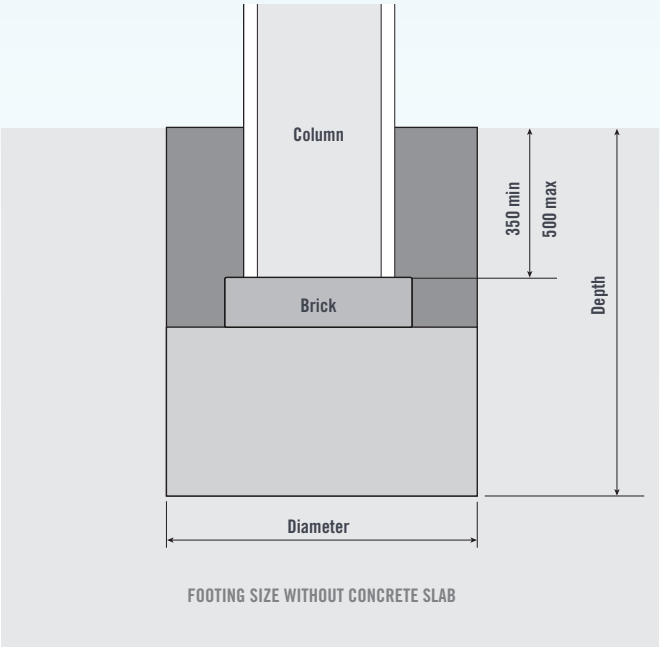



FIGURE 3

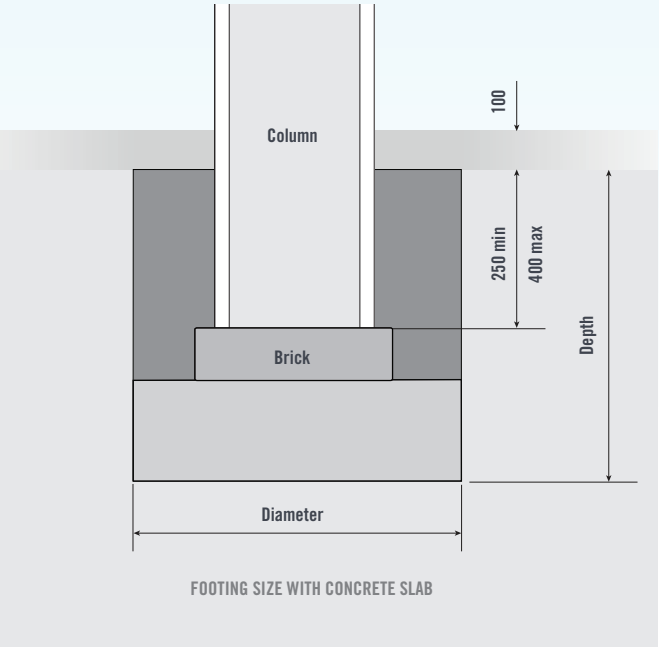



FIGURE 4

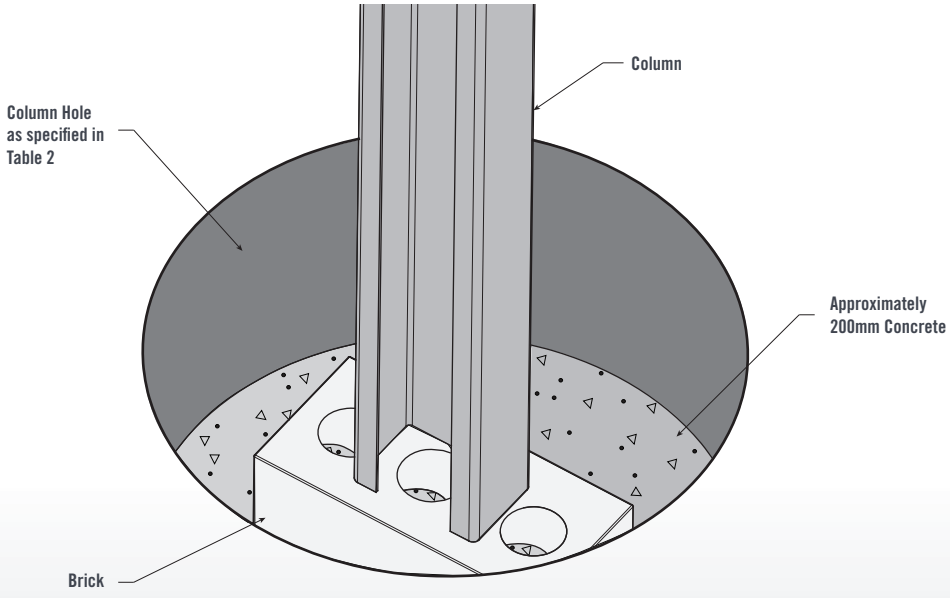



FIGURE 5

## TABLE 2 - PAD FOOTING SIZES (mm) - ENCLOSED SHEDS (INCLUDING WIND-RATED DOORS) & GARAPORTS

| Eaves Height (mm) | Shed Width (mm) | Soil Type | N1 (W28) | | | | N2 (W33) | | | | N3 (W41) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | With Slab | | Without Slab | | With Slab | | Without Slab | | With Slab | | Without Slab | |
| | | | Diameter | Depth | Diameter | Depth | Diameter | Depth | Diameter | Depth | Diameter | Depth | Diameter | Depth |
| 2400 | 3159 | A | 375 | 600 | 375 | 700 | 375 | 600 | 450 | 700 | 450 | 800 | 600 | 900 |
| | | B | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 600 | 375 | 450 | 450 | 700 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 550 |
| | 3921 | A | 375 | 600 | 375 | 700 | 375 | 700 | 450 | 800 | 450 | 800 | 600 | 800 |
| | | B | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 700 | 375 | 500 | 450 | 900 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 600 |
| | 5445 | A | 375 | 700 | 450 | 700 | 375 | 700 | 450 | 900 | 600 | 800 | 600 | 1000 |
| | | B | 375 | 450 | 375 | 700 | 375 | 450 | 450 | 800 | 375 | 700 | 600 | 900 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 550 | 375 | 450 | 450 | 600 |
| | 6207 | A | 450 | 700 | 450 | 800 | 450 | 800 | 450 | 900 | 600 | 1100 | 600 | 1200 |
| | | B | 375 | 500 | 375 | 700 | 375 | 500 | 450 | 900 | 450 | 700 | 600 | 1000 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 600 | 375 | 500 | 450 | 700 |
| | 6969 | A | 450 | 800 | 450 | 900 | 600 | 800 | 600 | 1000 | 600 | 1000 | 600 | 1100 |
| | | B | 375 | 500 | 450 | 700 | 375 | 600 | 600 | 700 | 450 | 800 | 600 | 1100 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 600 | 375 | 500 | 450 | 800 |
| 2700 | 3159 | A | 375 | 600 | 375 | 700 | 375 | 600 | 450 | 800 | 450 | 800 | 600 | 800 |
| | | B | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 600 | 375 | 450 | 450 | 700 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 550 |
| | 3921 | A | 375 | 600 | 375 | 700 | 375 | 700 | 450 | 800 | 600 | 700 | 600 | 1000 |
| | | B | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 700 | 375 | 500 | 450 | 900 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 600 |
| | 5445 | A | 375 | 700 | 450 | 800 | 450 | 700 | 450 | 900 | 450 | 900 | 600 | 900 |
| | | B | 375 | 450 | 375 | 700 | 375 | 500 | 450 | 800 | 375 | 700 | 600 | 900 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 550 | 375 | 450 | 450 | 700 |
| | 6207 | A | 450 | 700 | 450 | 800 | 450 | 900 | 600 | 900 | 600 | 900 | 600 | 1000 |
| | | B | 375 | 500 | 450 | 700 | 375 | 500 | 450 | 900 | 450 | 700 | 600 | 1000 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 600 | 375 | 500 | 450 | 800 |
| | 6969 | A | 450 | 800 | 600 | 900 | 600 | 900 | 600 | 1100 | 600 | 1000 | 600 | 1200 |
| | | B | 375 | 700 | 450 | 800 | 375 | 700 | 450 | 800 | 450 | 900 | 600 | 1000 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 700 | 375 | 600 | 450 | 900 |
| 3000 | 3159 | A | 375 | 600 | 375 | 700 | 450 | 800 | 450 | 900 | 600 | 800 | 600 | 1000 |
| | | B | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 600 | 375 | 500 | 450 | 700 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 550 |
| | 3921 | A | 375 | 700 | 450 | 700 | 450 | 800 | 600 | 800 | 600 | 800 | 600 | 1000 |
| | | B | 375 | 500 | 375 | 550 | 375 | 450 | 450 | 600 | 375 | 500 | 450 | 900 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 600 |
| | 5445 | A | 450 | 800 | 600 | 800 | 450 | 900 | 600 | 900 | 600 | 800 | 600 | 1000 |
| | | B | 375 | 500 | 450 | 700 | 375 | 500 | 450 | 800 | 450 | 700 | 600 | 1000 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 600 | 375 | 450 | 450 | 700 |
| | 6207 | A | 450 | 900 | 600 | 900 | 450 | 900 | 600 | 900 | 600 | 900 | 600 | 1100 |
| | | B | 375 | 600 | 450 | 700 | 375 | 600 | 450 | 900 | 450 | 800 | 600 | 1100 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 600 | 375 | 600 | 450 | 800 |
| | 6969 | A | 600 | 800 | 600 | 1000 | 600 | 800 | 600 | 1000 | 600 | 1100 | 750 | 1000 |
| | | B | 375 | 600 | 450 | 800 | 375 | 600 | 600 | 800 | 600 | 700 | 600 | 1200 |
| | | C | 375 | 450 | 375 | 550 | 375 | 450 | 375 | 700 | 375 | 700 | 450 | 900 |

Notes:

Soil Type Code

A | Compact sand, gravel and sand

B | Fine sand, granular soil with conspicuous clay content

C | Stiff clay

**Slabs to be minimum 100mm thick and reinforced with slab mesh.**

1. Table applies to enclosed Sheds (Including wind-rated doors) and Garaports only - refer to Stratco 15° Gable Roof Shed Span Table Book B for Sheds with non wind-rated roller doors and permanent openings.
2. Refer to Table 4 for other concrete slab requirements.
3. Footing sizes indicated are minimum size for structural adequacy, these sizes to be confirmed by a suitably qualified structural engineer relating to project specific site soil conditions.
4. Columns shall be embedded minimum 500mm into concrete.

## FIXING ONTO CONCRETE (PINNED)

### NOTES:

1. Width of edge perimeter beam = 300mm.
2. Slab mesh SL72 for beams less than 350mm deep, SL82 for beams 350mm or deeper.
3. 8LTM200 trench mesh to be used where beams are deeper than 350mm, or where required due to soil conditions (determined by others).
4. Cover to reinforcement = 35mm, top and bottom, and to slab edge.
5. Concrete Grade N20.
6. Slabs suitable for Class A, S, M, M-D sites.

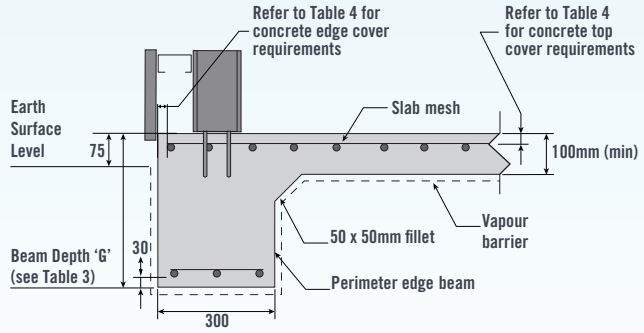



FIGURE 6 - TYPICAL SECTION THROUGH EDGE PERIMETER BEAM

## CONCRETE SLAB PREPARATION

Gable Roof Shed slabs will require a concrete edge beam around the perimeter of the entire slab. The edge beam shall be 300mm in width in all cases with a depth, see Table 3. Refer to the corresponding notes for additional details including slab and edge beam reinforcing requirements.

Figure 6 shows a typical section of an edge beam and slab.

### Table 3 - Depth of Edge Perimeter Beam

| Eaves Height (mm) | Shed Width (mm) | Depth of Edge Perimeter Beam ('G') (mm) | | |
|---|---|---|---|---|
| | | N1 | N2 | N3 |
| 2400 | 3159 | 200 | 200 | 300 |
| | 3921 | 200 | 200 | 300 |
| | 5445 | 200 | 200 | 300 |
| | 6207 | 200 | 250 | 400 |
| | 6969 | 300 | 300 | 500 |
| 2700 | 3159 | 200 | 200 | 300 |
| | 3921 | 200 | 250 | 300 |
| | 5445 | 200 | 250 | 300 |
| | 6207 | 250 | 300 | 400 |
| | 6969 | 300 | 300 | 500 |
| 3000 | 3159 | 200 | 300 | 300 |
| | 3921 | 200 | 300 | 300 |
| | 5445 | 200 | 300 | 350 |
| | 6207 | 300 | 300 | 400 |
| | 6969 | 300 | 300 | 500 |

### Table 4 - Concrete Slab Requirements

| Slab Requirements | Interior (i.e. Inside Enclosed Garages) | | Exposed (i.e. Under Garaport or Open Carports) | |
|---|---|---|---|---|
| | Concrete Exposure Classification | | | |
| | A1 | A2 | B1 | B2 |
| | Residential | Non-Residential | >=1km From Coastline | <1km From Coastline |
| Minimum Thickness (mm) | 100 | 100 | 100 | 110 |
| Concrete Grade (f'c) (MPa) | 20 | 25 | 32 | 40 |
| Concrete Cover (mm) (Top and Edge) | 25 | 35 | 40 | 45 |

Six bolted stirrup footing connections are available and depend on the eaves height, Gable Roof Shed width and wind classification. Follow the instructions on Page 14 for building the frame and check wall alignment.

Refer to manufacturer's specifications for chemical capsule and injection fixing details and setting times.

### Table 5 - Footing Type

| Eaves Height (mm) | Shed Width (mm) | Stirrup Type | | |
|---|---|---|---|---|
| | | N1 | N2 | N3 |
| 2400 | 3159 | A | A | F |
| | 3921 | A | A | D |
| | 5445 | A | A | F |
| | 6207 | C | D | F |
| | 6969 | F | F | F |
| 2700 | 3159 | A | C | F |
| | 3921 | A | D | F |
| | 5445 | C | D | E |
| | 6207 | D | F | E |
| | 6969 | F | F | F |
| 3000 | 3159 | A | F | F |
| | 3921 | A | F | F |
| | 5445 | A | E | D |
| | 6207 | F | F | F |
| | 6969 | F | F | F |

| | |
|---|---|
| A | 8mm stirrup with 2x M12 chemical capsule anchor studs at 90mm embedment. |
| B | 8mm stirrup with 2x M12 threaded rods with chemical injection to set anchor studs at 200mm embedment. |
| C | 8mm stirrup + angle bracket with 4x M12 threaded rods with chemical injection to set anchor studs at 90mm embedment. |
| D | 8mm stirrup + angle bracket with 4x M12 threaded rods with chemical injection to set anchor studs at 200mm embedment. |
| E | 8mm stirrup with 2x M16 threaded rods with chemical injection to set anchor studs at 250mm embedment. |
| F | 8mm stirrup + angle bracket with 4x M16 threaded rods with chemical injection to set anchor studs at 250mm embedment. |

Note: when Roller Doors are adjacent to columns, use 12x30 Fascia Bolts to fix columns to stirrups.

### TYPE A:

- 8mm Stirrup
- 2x M12 Chemical Capsule Anchors
- 90mm Embedment

Each stirrup is fixed to the column with four bolts and into the concrete slab with M12 chemical capsule anchor studs embedded a minimum of 90mm into the slab.

Drilled holes shall be 14mm diameter with chemical capsule required to set anchors.

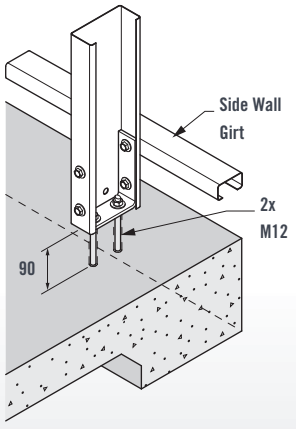



FIGURE 7

### TYPE B:

- 8mm Stirrup
- 2x M12 Threaded Rod with Chemical Injection Anchors
- 200mm Embedment

Each stirrup is fixed to the column with four bolts and into the concrete perimeter beam with two M12 threaded rods with chemical injection to set anchors. Threaded rods will need to be cut to the required length before embedding into the concrete.

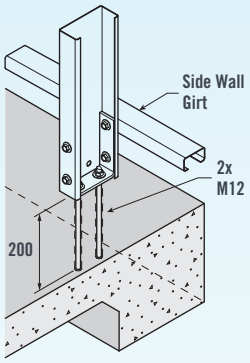



FIGURE 8

Embed the rod a minimum of 200mm into the slab.

Threaded rod holes drilled into concrete shall be 14mm diameter.

### TYPE C & D:

- 8mm Stirrup
- Angle Bracket
- 90mm (C) or 250mm (D) Embedment
- 4x M12 Threaded Rod with Chemical Injection Anchors

Each stirrup is fixed to the column with four bolts and into the concrete perimeter beam with four M12 threaded rods with chemical injection to set anchors. Threaded rods will need to be cut to the required length before embedding into the concrete.

Embed the rod a minimum of 90mm (C) or 250mm (D) into the slab.

Threaded rod holes drilled into concrete shall be 14mm diameter.

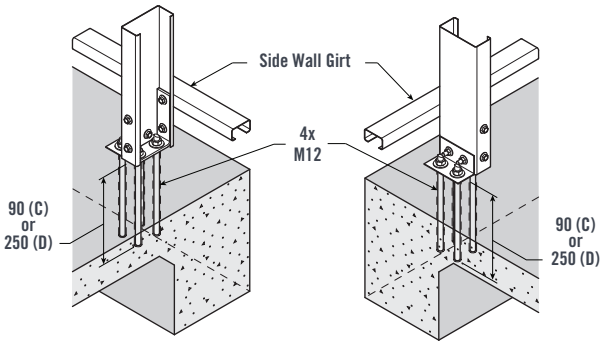



FIGURE 9

### TYPE E:

- 8mm Stirrup
- 2x M16 Threaded Rod with Chemical Injection Anchors
- 250mm Embedment

Each stirrup is fixed to the column with four bolts and into the concrete perimeter beam with two M16 threaded rods with chemical injection to set anchors. Threaded rods will need to be cut to the required length before embedding into the concrete.

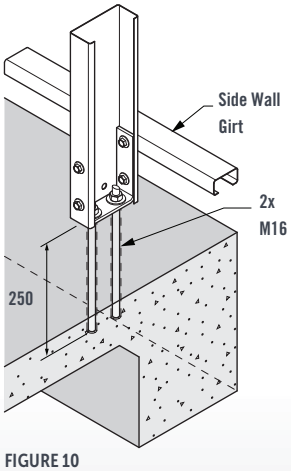



FIGURE 10

Embed the rod a minimum of 250mm into the slab.

Threaded rod holes drilled into concrete shall be 18mm diameter.

### TYPE F:

- 8mm Stirrup
- Angle Bracket
- 250mm Embedment
- 4x M16 Threaded Rod with Chemical Injection Anchors

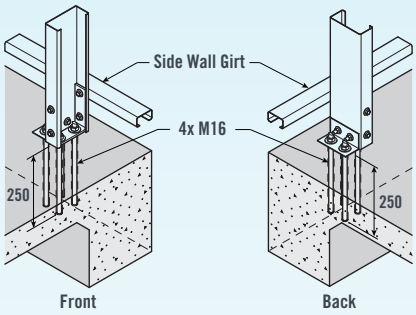



FIGURE 11

Each stirrup is fixed to the column with four bolts and into the concrete perimeter beam with four M16 threaded rods with chemical injection to set anchors. Threaded rods will need to be cut to the required length before embedding into the concrete.

Embed the rod a minimum of 250mm into the slab.

Threaded rod holes drilled into concrete shall be 18mm diameter.

### CENTRE ROLLER DOOR COLUMN CONNECTION:

For Type 2 Gable Roof Sheds the centre roller door column stirrup is to be fixed with two M12 chemical capsule anchors at 90mm concrete embedment.

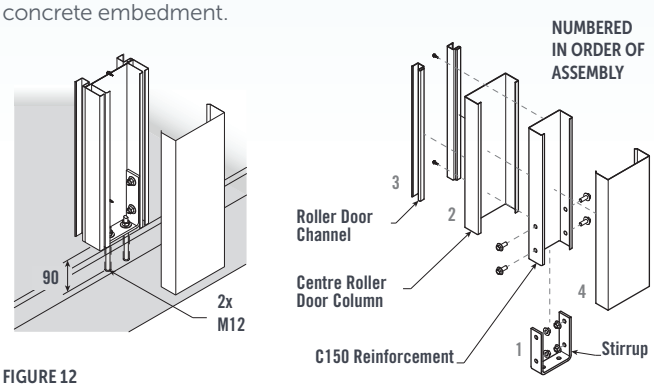



FIGURE 12

### END COLUMN & INTERNAL ROLLER DOOR COLUMN CONNECTION:

The angle connector is fixed to the column with two bolts and into the concrete slab with two M12 chemical capsule anchors embedded a minimum of 90mm into the slab. Drilled holes shall be 14mm diameter with chemical injection required to set anchors. Depending on the end column provided, C100 end columns require an angle connector with length 90mm. C150 end columns require an 8mm stirrup. For internal roller door columns, secure to slab using the Type A stirrup system previously detailed.

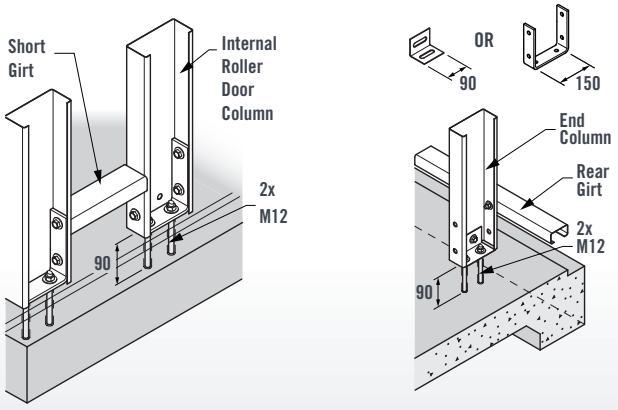



FIGURE 13

## CONSTRUCTING THE WALLS

### WALL FRAMES

The number of columns for one wall:

Depending on the length of your Gable Roof Shed, lay three, four, five, or more C-section columns on the ground, see Table 6, making sure the open side of each column is facing the correct way, see Figure 16.

As a general rule, the open side of each column will face the rear of the Gable Roof Shed, except for the front columns which face the front of the Gable Roof Shed, see Figure 16.

Please note that in standard Gable Roof Sheds the columns have been pre-punched at every wall girt/column connection, and at the rafter/eaves connection. At this stage, the columns must have the wall girt/column holes facing up.

**TABLE 6**

| Shed Length | Number of Columns |
|---|---|
| 6.2m long | 3 columns |
| 7.7m long | 4 columns |
| 9.3m long | 4 columns |
| 12.3m long | 5 columns |

### WALL GIRTS

Similarly, in standard Gable Roof Sheds the wall girts have been pre-punched at each wall girt/column connection.

Place the wall girts across the columns and match the pre-punched holes, see Figure 16.

Fasten the top girt to the column with a high-tensile 12x30mm flanged purlin bolt through each hole. The top girt is fixed through the top pre-punched hole in the columns.

Note:

- If a box gutter is to be installed, the top wall girt will be offset from the top of the column by 100mm, see Figure 118 Page 46.
- If wall is open or partially open, a Garaport flashing will be required, see Figure 115 Page 45.
- If roof pitch is greater than 15°, or if Hiland Tray is being installed, additional top girt capping flashings will be required, see Figure 95 Page 38.

### JOINING WALL GIRTS

Where wall girts or purlins are to be joined, a girt connector is required.

The connection of wall girts shall only occur over portal or end column/columns, and the joining of purlins only over rafters.

Join the joining plate to the girts with two 12x30mm flanged purlin bolts. Leave the centre hole free to join to the centre portal frame with one 12x30mm flanged purlin bolt, see Figure 14.

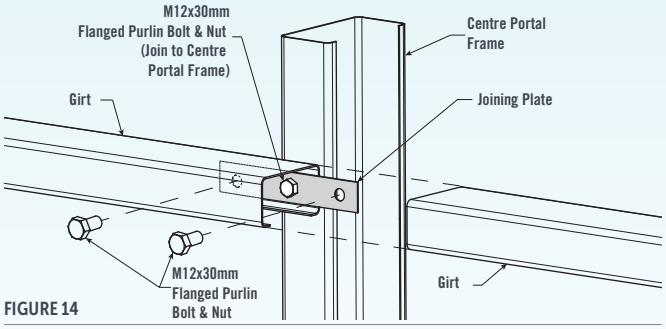



FIGURE 14

### WALL SHEETING

Note: If cladding with Hiland Tray, it is recommended that all framework is fully assembled before installing Hiland Tray sheets and flashings. Refer to Page 40 for Hiland Tray installation details.

Ensure the framework is square and the diagonal measurements are equal. Start laying the sheeting from the back-end of the shed, to make sure the overlap seam is not visible from the front of the shed. Ensure the top edge of the wall sheets are aligned parallel with the top edge of the top wall girts, see Figure 15.

Pan fix the Stratco Superdek® wall sheets with 10x16mm self drilling screws at every girt junction. The sheets are laid with the short rib overlapping. Before fastening all screws, run a string line from both ends of the wall panel through the centre of the girts to ensure all the screws will be fastened in line.

The top of each wall sheet must be 5mm below the top wall girt. This will prevent any rubbing between the wall and roof sheets. Check the wall frame remains square as the wall sheets are fixed.

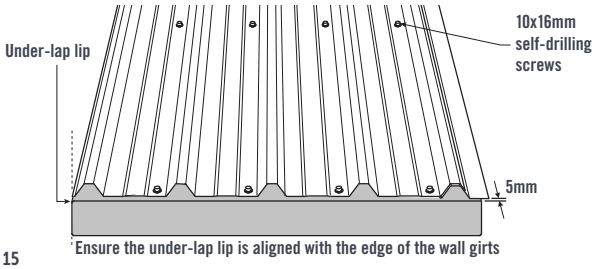



FIGURE 15

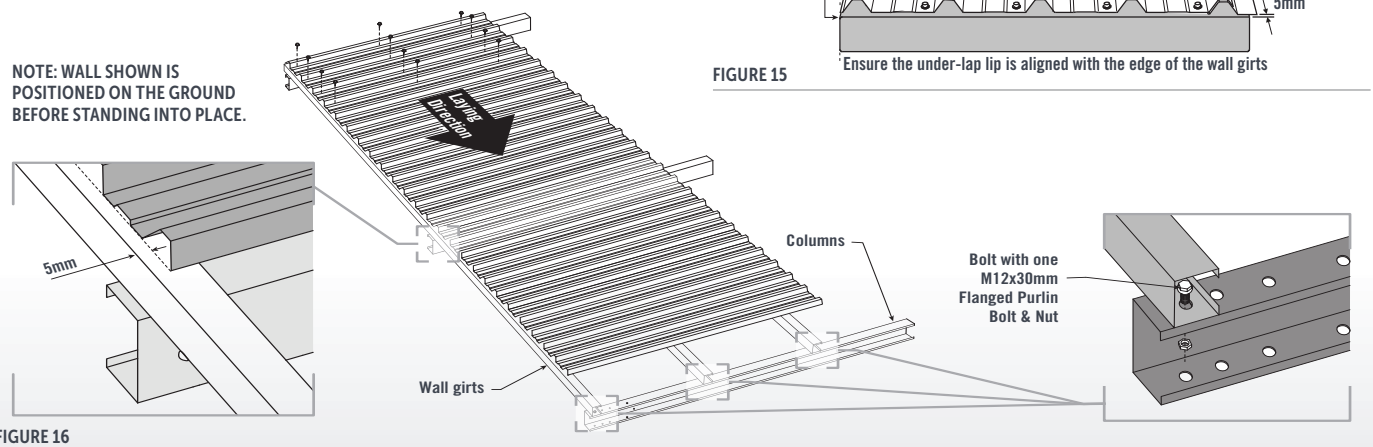



FIGURE 16

## PERSONAL ACCESS DOOR

### GUTTER SIDE PA DOOR

If you are installing a PA door, leave an 835mm gap between the wall sheets. Fix the wall sheets on either side of the proposed door location. It may be necessary to rotate one of the wall sheets so the under-lap is aligned with the door opening on both sides, see Figure 18. To avoid cutting, the sheets may need to be lapped several times.

Once the wall sheets have been fixed, cut the middle and bottom wall girts with a hacksaw. Do not cut the top wall girt.

Slide the door mullions into position so they cap the middle and bottom wall girts. Notch and fix the door mullions to the top girt with one 10x16mm self drilling screw and one rivet, see Figure 17.

Note: Do not use the PA door lintel as a mullion spacing template. The PA door lintel is supplied longer to allow for on site tolerance and must be cut to fit between the door mullions.

Position and fix the door lintel to the door mullions with two rivets. The door lintel should finish 2250mm from the bottom of the wall sheets, see Figure 17.

Pan fix a wall sheet to the PA door frame with 10x16mm screws. Fix the PA door side flashing with rivets at 600mm centres.

Determine which way the door will swing. The PA door frame will be provided with two 100x75mm hinges. Fix the hinges to the door mullion with 10x16mm wafer head screws.

If PA Door sheets require cutting, the excess sheeting can be fixed above the PA Door in conjunction with a PA Door gutter flashing. Alternatively, if a PA Door header flashing is provided, rivet the PA Door header flashing to the door mullions to flash the area above the door opening, see Figure 18.

Mullions are to be fixed to the slab using a 45mm angle bracket with an M10x20 hex head bolt and M6.0x40 masonry anchor as shown in Figure 17.

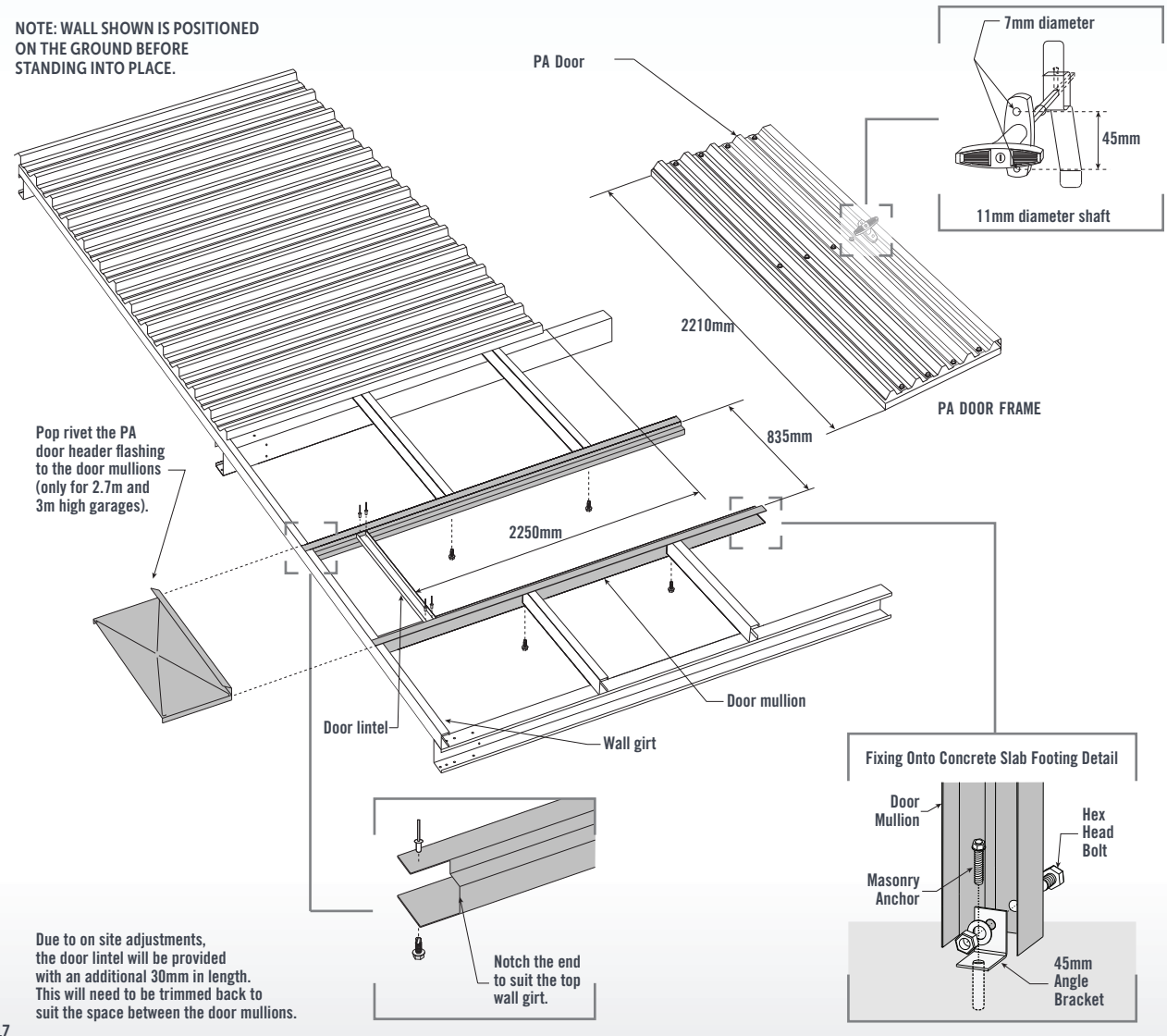



FIGURE 17

## GABLE END PA DOOR

For Gable Roof Sheds greater than 2.4m high, the installation of the PA Door mullions in the gable end of the shed follows the same process as for the gutter side, with the mullions being fixed to the top girt (under the rafter).

If the PA Door is being installed in a Gable Roof Shed less than 2.4m high, the top girt also needs to be cut as the PA Door mullions are fixed to the rafter.

As gable end sheets are not rotated, two sheets will need to be trimmed to allow for the PA Door opening, see Figure 18. When cutting the second sheet try to cut along the pan of the sheet to ensure a clean flat edge with no gaps. A PA Door angle trimmer is supplied to flash the edge of the second cut sheet, see Figure 18.

A PA Door gable end header flashing will be provided and may require cutting. This flashing will cap the bottom of the cut header sheets and act as a gutter above the door opening.

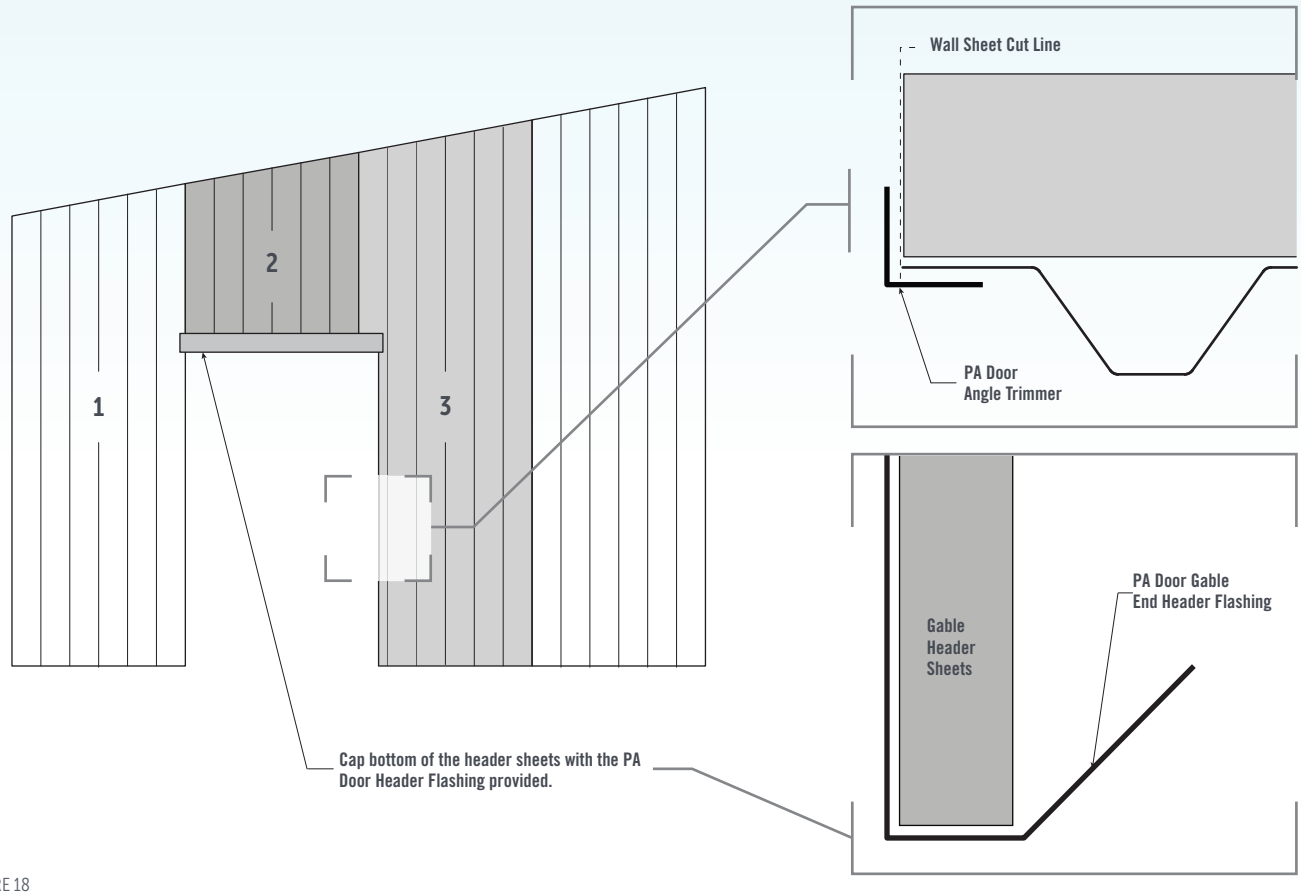



FIGURE 18

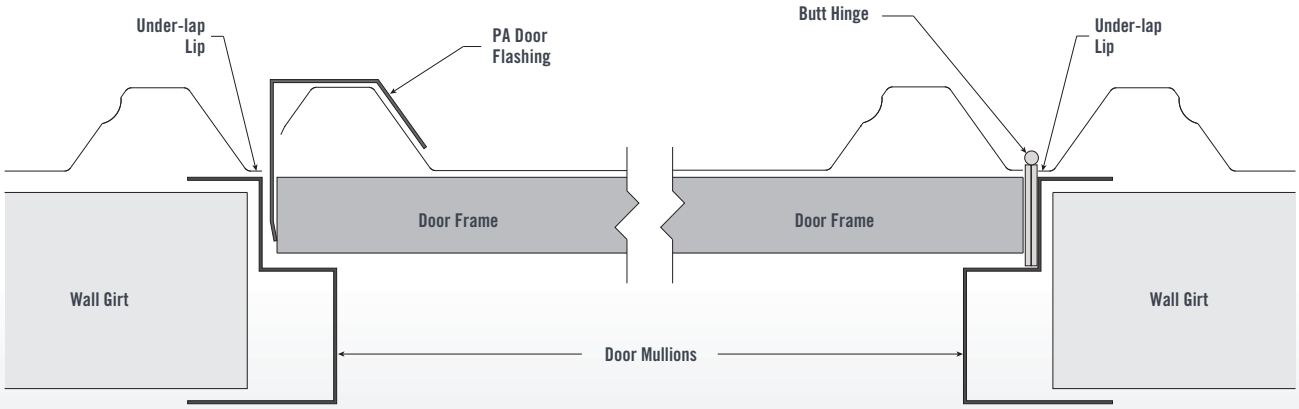



FIGURE 19

## DOUBLE PA DOOR

If installing a double PA door, installation of the PA door mullions follows the same process as for single PA doors. Allow a gap of 1660mm when cutting the wall girts.

Similar to Gable End PA door installation, the wall sheets around the PA door will not be rotated and will need to be trimmed to allow for the double PA Door opening, see Figure 20. A PA header flashing will be provided to cap the bottom of the cut header sheets, see Figure 18.

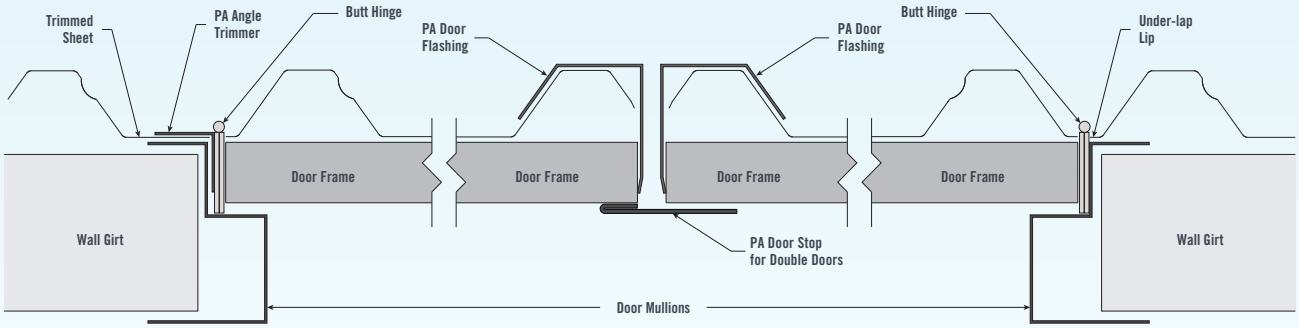



FIGURE 20

## FLAT METAL SKIN PA DOOR

If installing a Flat Metal Skin PA Door, cut an 850mm gap in the wall girts. Slide the door mullions into position so they cap the middle and bottom wall girts. Notch and fix the door mullions to the top girt with one 10x16mm self drilling screw and one rivet, see Figure 17.

Similar to Gable End PA Door installation, the wall sheets around the PA door will not be rotated and will need to be trimmed to allow for the door opening. A PA Header flashing will be provided to cap the bottom of the cut header sheets. The flange of the door frame will cover the trimmed Superdek sheets, see Figure 21.

The Flat Metal Skin PA Door will be provided pre-assembled. Once the wall sheets are trimmed and secured, slide the door assembly into position and secure with 10x16mm self drilling screws, see Figure 21.

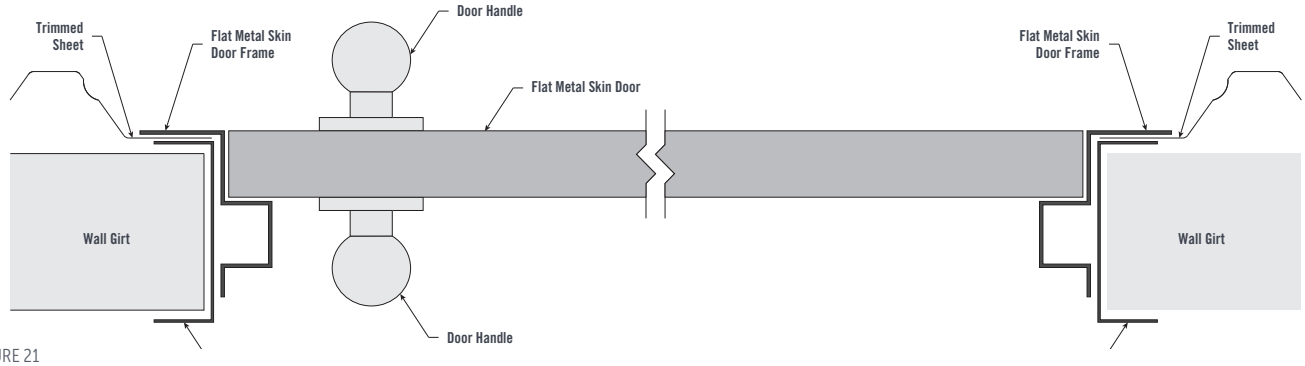



FIGURE 21

## HILAND TRAY PA DOOR

On Gable Roof Sheds with Hiland Tray cladding, ensure mullions are positioned so that the crests on the PA door sheets align with the crests on the wall sheets. The outside door sheets will need to be cut along the pan and capped with PA angle trim flashings, see Figure 22.

Similar to Gable End PA doors, the wall sheets will need to be trimmed around the opening. Ensure PA door is positioned so that the Hiland Tray sheets can be neatly cut along the pan, and cap the trimmed wall sheets with PA angle trim flashings, see Figure 22.

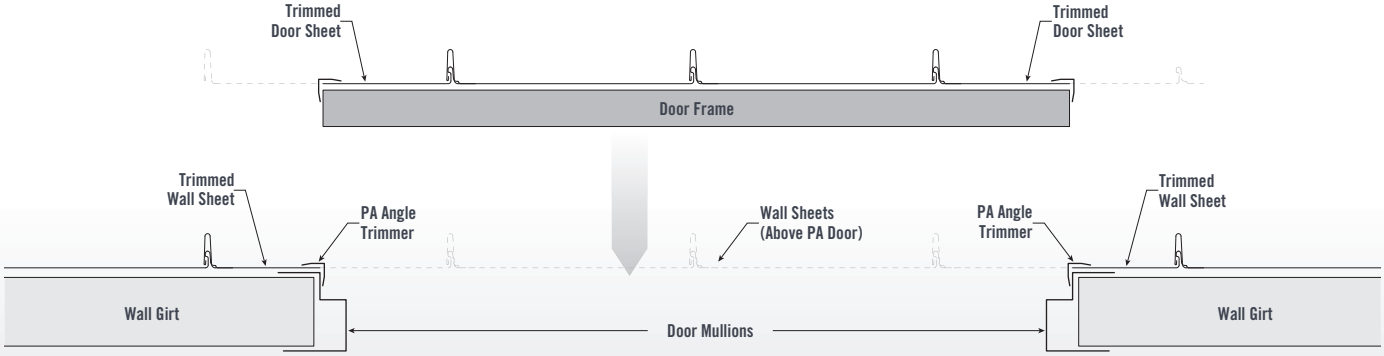



FIGURE 22

## QUAD GUTTER INSTALLATION - NSW, VIC, SA AND QLD

### QUAD GUTTERS - 115 (NSW, VIC, SA) AND 125 (QLD)

Rivet a left and right hand stop end to each length of gutter. Seal stop ends with silicone.

Cut a hole for each downpipe outlet and rivet the outlet into position, see Figure 23. Seal with silicone.

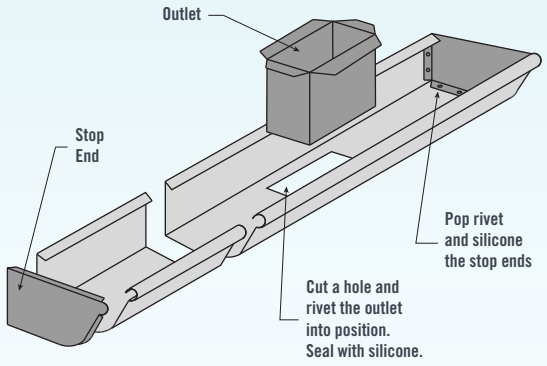



FIGURE 23

### GUTTER BRACKETS - 115 (NSW, VIC, SA) AND 125 (QLD)

Crest fix the gutter brackets to the wall sheets at approximately 1000mm centres with pop rivets, see Figure 24. Allow for a slight fall towards the downpipe end so the water can flow freely.

Once the gutter brackets have been installed, roll the gutter bead onto the gutter bracket and clip the back of the gutter into position.

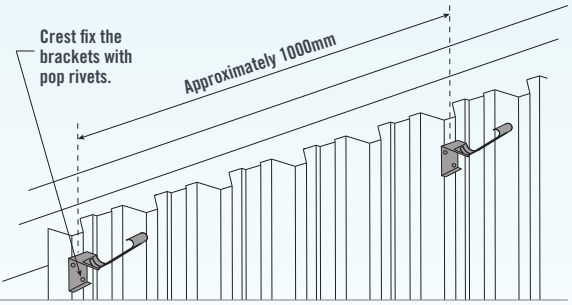



FIGURE 24

## QUARTER ROUND GUTTER INSTALLATION - WA ONLY

Mark the position of the P-Clip on the wall sheeting, see Figure 25. Use a string line to mark out a slight fall towards the downpipe end so the water can flow freely. Drill holes and rivet the P-Clips in place, see Figure 26.

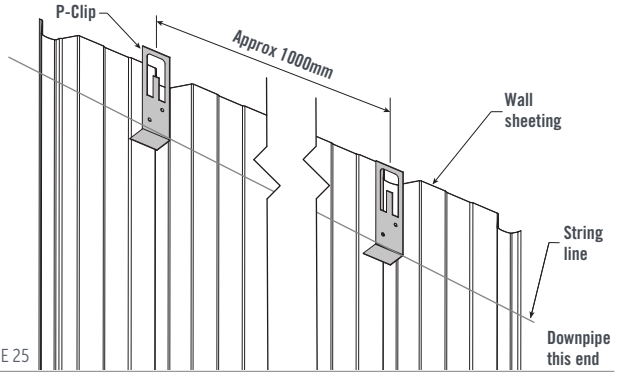



FIGURE 25

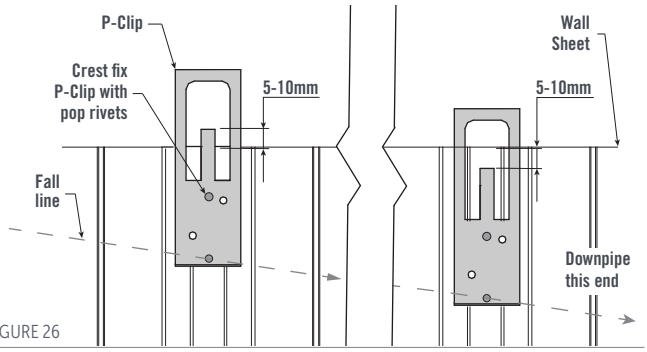



FIGURE 26

To allow room for installing the timber fix bracket between the P-Clip uprights, use a pair of tin snips to remove the top section of the P-Clip, see Figure 27. The base of the P-Clip supports the gutter, see Figure 28.
Once the gutter is in place, fold the tabs of the P-Clip over the top of the gutter to avoid interference with the timber fix bracket, see Figure 29.

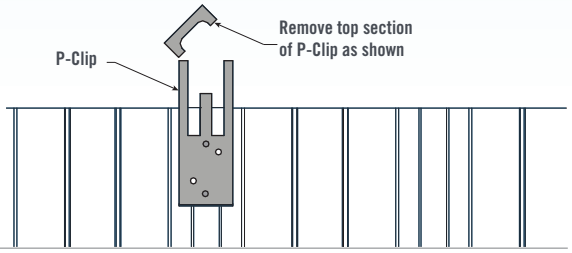



FIGURE 27

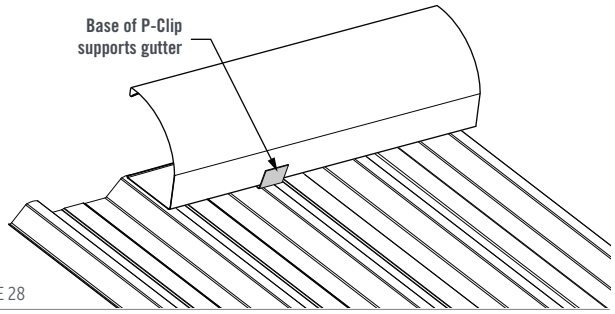



FIGURE 28

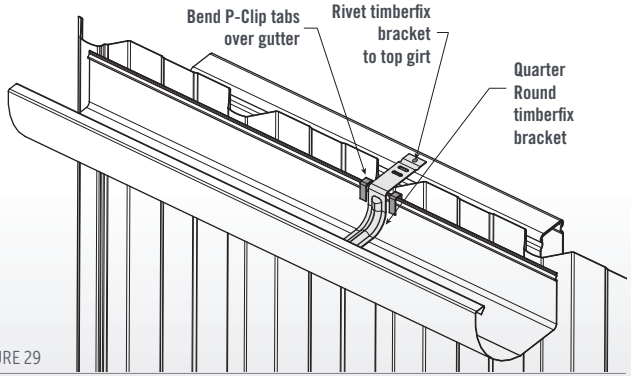



FIGURE 29

## EDGE GUTTER INSTALLATION - NSW, VIC, SA, QLD AND WA

### EDGE GUTTERS - 160 (NATIONAL)

Rivet a left and right hand stop end to each length of gutter. Seal stop ends with silicone.

Cut a hole for each downpipe outlet and rivet the outlet into position, see Figure 30. Seal with silicone.

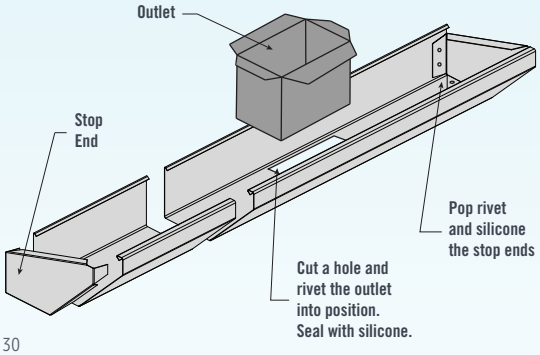



FIGURE 30

Fix the gutter to the crest of Superdek sheets, or to the gutter attachment flashing if Hiland Tray is used. Allow for a slight fall towards the downpipe end so the water can flow freely.

Fix gutter straps at approximately 1000mm centres to the top of the eave purlin, hooking the strap under the bead of the gutter, see Figure 31.

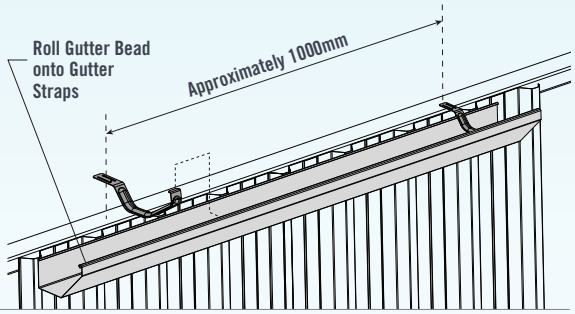



FIGURE 31

## BUILDING THE FRAME - GABLE ROOF SHEDS

### STANDING THE WALL FRAME

Stand the completed wall frame in the footing holes, see Figure 32, and temporarily brace it. Make sure the wall is level and square.

Repeat for the other side wall frame. Stand the two wall frames in the holes and brace them securely. If fixing to concrete do not remove bracing until columns are fixed to concrete.

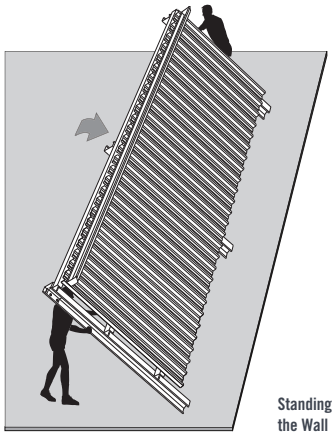



FIGURE 32

### RAFTERS

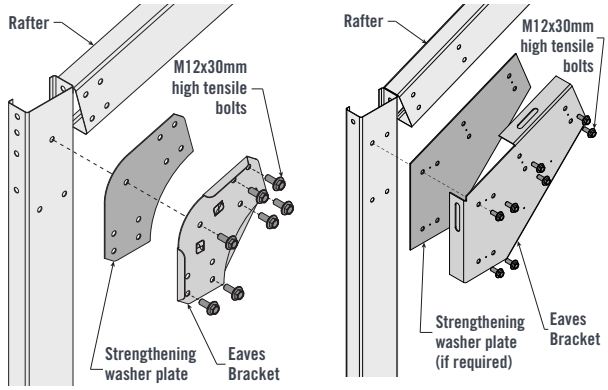
The rafters are bolted together on the ground using a ridge bracket. Lay two rafters out, making sure there is a left and a right rafter. The C-section opening on each rafter should open on the same side, with the purlin holes on the flange pointing up.

Bolt the ridge bracket in place by lining up the rafter and ridge bracket holes. Use a 12x30mm high tensile flanged purlin bolt in each hole and tighten. To eliminate any movement in the joint, screw four 12x20mm self drilling hex head screws through the ridge bracket and into each rafter, see Figure 38.

Bolt the eaves bracket to each end of the rafter frames with four 12x30mm flanged purlin bolts, see Figure 33.

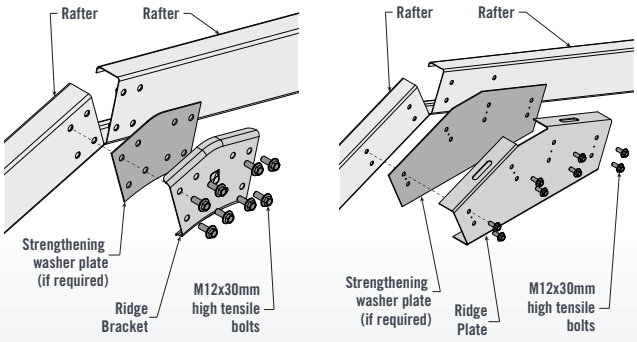
Alternatively the eaves brackets can be fastened to the ends of the columns first. The ridge bracket and rafter frame can then be lifted into position and bolted through the eaves brackets.

If strengthening washer plates are provided, bolt them between the eaves brackets and the rafter/column joint, see Figure 33.




EAVE CONNECTION - 15° (LEFT) & ALTERNATIVE PITCH (RIGHT)

FIGURE 33




RIDGE CONNECTION - 15° (LEFT) & ALTERNATIVE PITCH (RIGHT)

FIGURE 34

### RAFTER ASSEMBLY

Use a person on each end of the rafter assembly to lift the frame into position. Bolt the eaves brackets to the column ends with five M12x30 high tensile flanged purlin bolts, see Figure 30.

Attach all the intermediate rafter assemblies first for stability, then the front and rear assemblies as previously described.

## BUILDING THE FRAME - SKILLION ROOF SHEDS

### STANDING THE WALL FRAME

Stand the completed wall frame in the footing holes, see Figure 35, and temporarily brace it. Make sure the wall is level and square.

Repeat for the other side wall frame. Stand the two wall frames in the holes and brace them securely. If fixing to concrete do not remove bracing until columns are fixed to concrete.

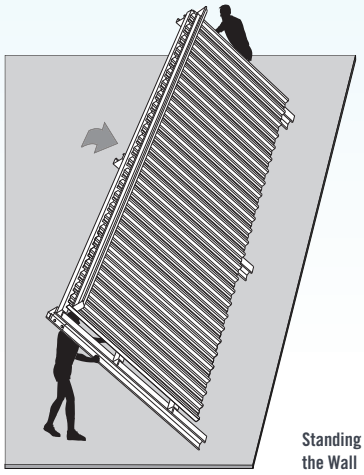



FIGURE 35

### RAFTERS

Note: rafters for Skillion roof sheds may need to be angle-cut at each end to ensure adequate room for the General Purpose Bracket bolt connections, see Figure 40.

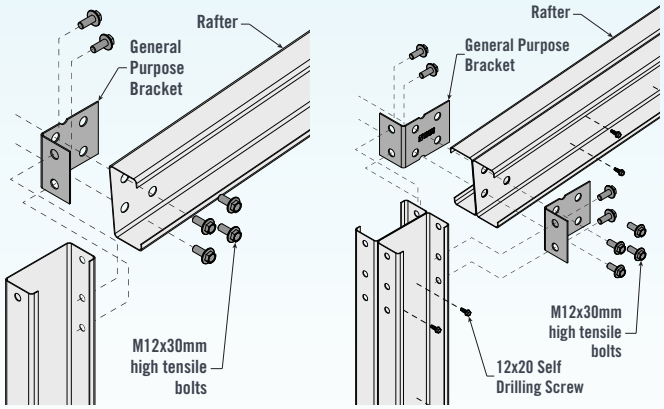
Start by test fitting the General Purpose brackets to the Portal Columns with M12x30 flanged purlin bolts. Test fit a rafter in position between columns, supported by props underneath. Ensure that the ends of the rafter are oriented correctly - one end of the rafter should attach to the high side of the shed, and the other to the low side. Mark out the hole locations for the General Purpose Brackets on the rafter, then remove the rafter and drill web holes on the ground. You may use the first rafter as a template for the others to ensure an identical fit for all rafters.

If back-to-back rafters are required, fix C-sections together with two 12x20 screws, spaced 100mm apart at 450mm intervals along the web. Ensure screws are within 100mm of the general purpose brackets at each end of the rafter.

### RAFTER ASSEMBLY

Use a person on each end of the rafter to lift into position. Bolt the rafter to the General Purpose Brackets installed on the columns with four M12x30 high tensile flanged purlin bolts, see Figure 38.

Alternatively, the General Purpose Brackets can be installed on the ends of the rafters first. The rafter assembly can then be lifted into position and bolted through the General Purpose brackets through the flange of the support columns.




SKILLION FRAME CONNECTION

FIGURE 36

### BACK-TO-BACK COLUMNS & REINFORCEMENT

If C-Section or SHS/RHS column reinforcement is required, fix to column with two 12x20 screws spaced 50mm apart, at maximum 450mm intervals along the length of the column. Ensure screws are within 100mm of each end of the reinforcement section. Column reinforcement should run from the base of the column to the underside of the eaves bracket, see Figure 37, or the full length of the column on a Skillion Roof Shed. If the shed will be fixed in ground, the reinforcement should be embedded to the same depth as the column.

If back-to-back columns are required on a Skillion Roof Shed, fix columns together with two 12x20 screws spaced 100mm apart, at 450mm centres along the length of the web, ensuring there are screws within 100mm of each end of the column, see Figure 37.

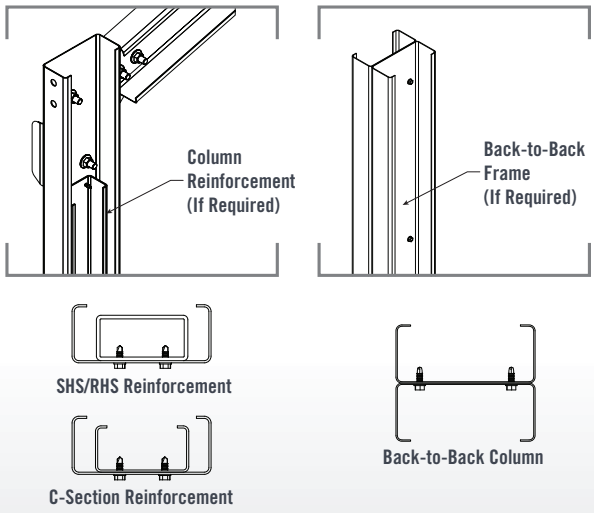
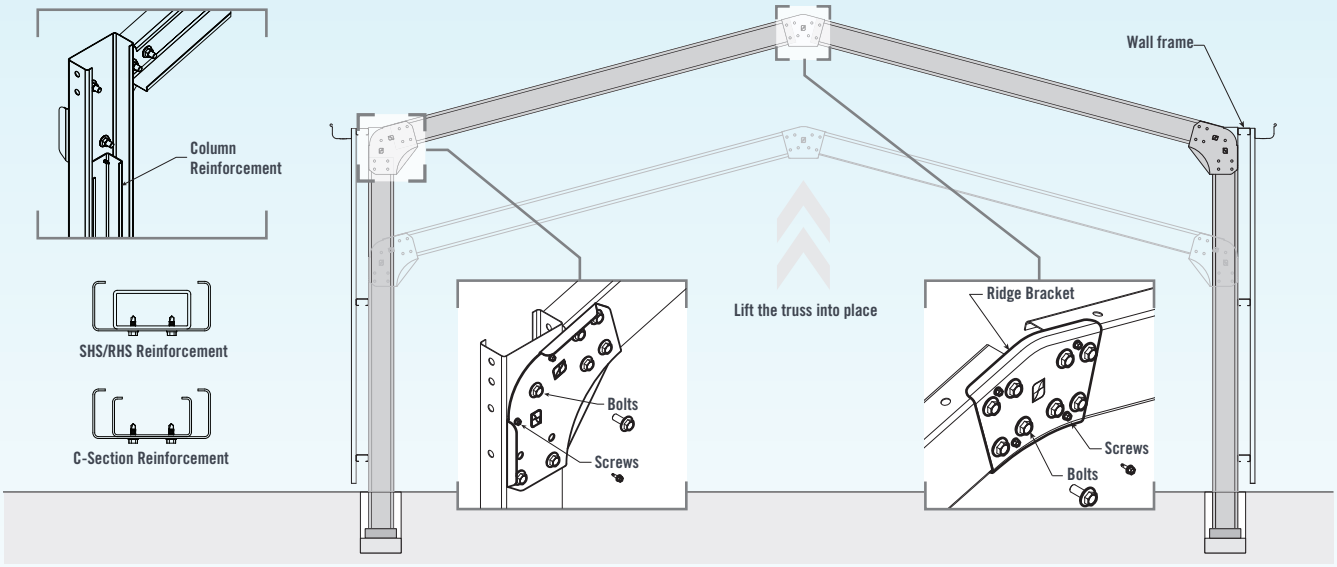
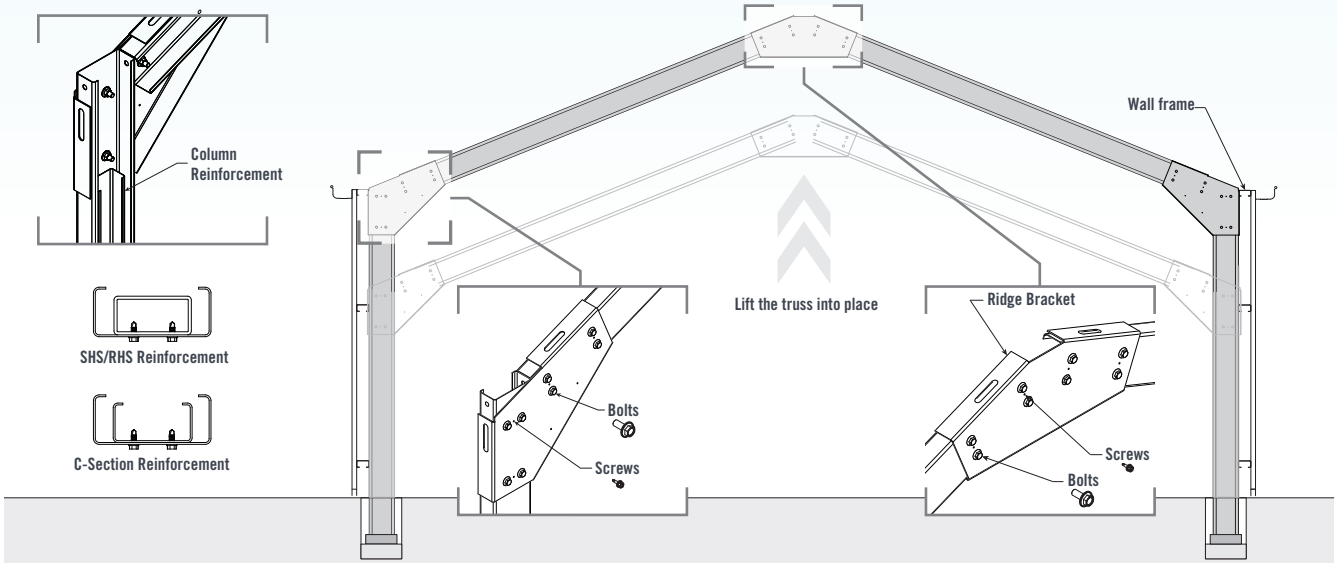


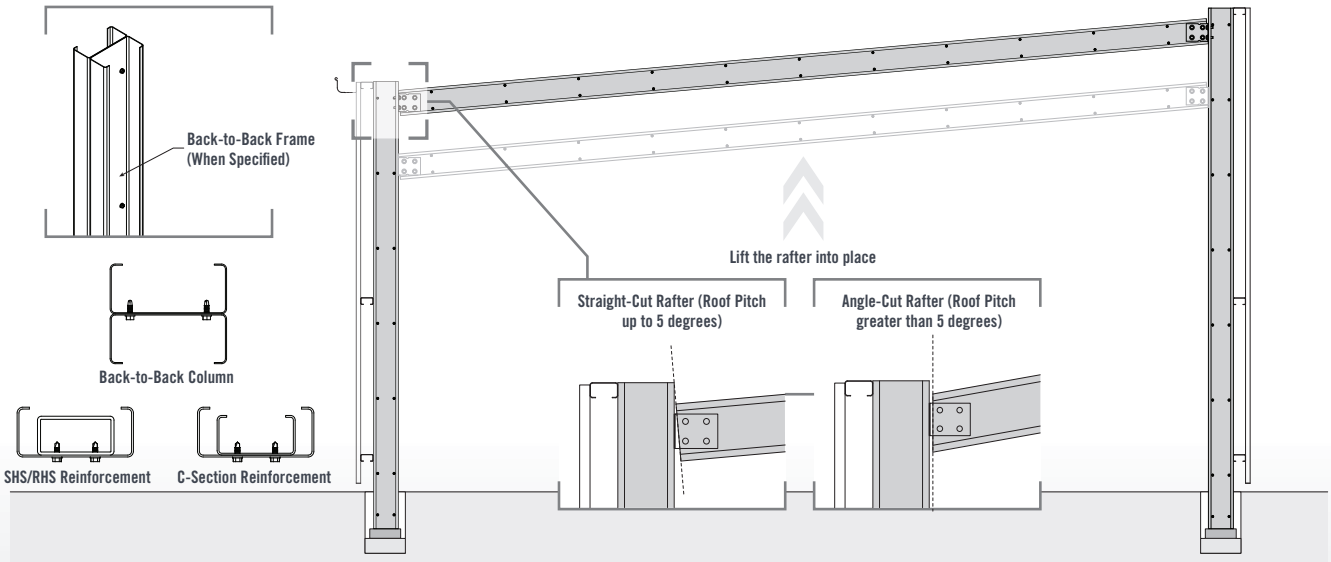

FIGURE 37




PORTAL FRAME ASSEMBLY - 15°
FIGURE 38




PORTAL FRAME ASSEMBLY - ALTERNATIVE ROOF PITCHES
FIGURE 39

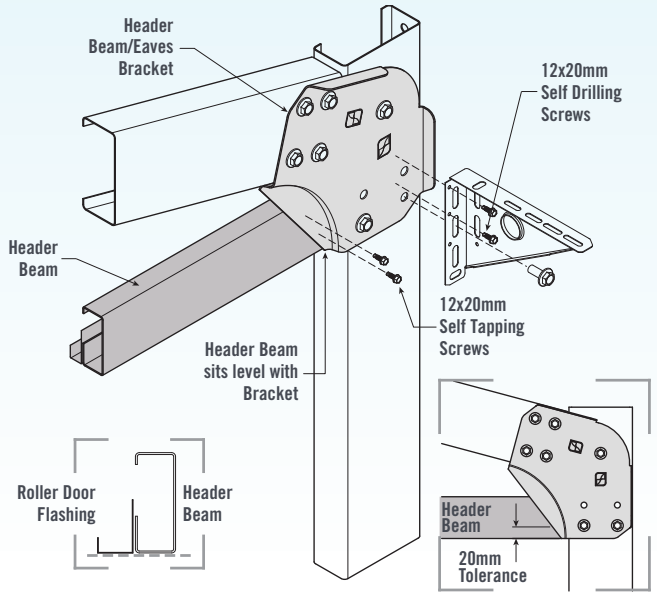



SKILLION FRAME ASSEMBLY - 5° EXAMPLE
FIGURE 40

# ROLLER DOOR INSTALLATION - GABLE END

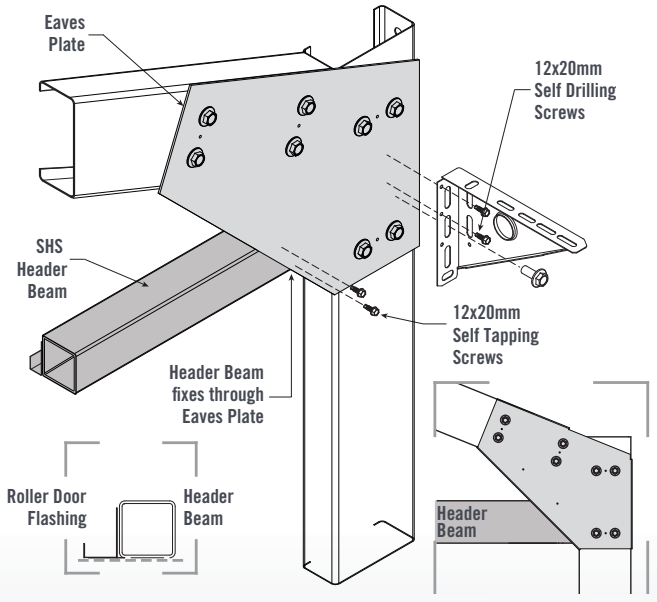
## TYPE 1 - SINGLE ROLLER DOOR IN GABLE END

The front header beam must be fixed between the two front columns through the flange of the eaves bracket, see Figure 41. Clamp the header beam in position while fastening in place with two 12x20mm self drilling screws through each flange of the eaves brackets.




ROLLER DOOR HEADER BEAM ATTACHMENT- 15° PITCH
FIGURE 41

For sheds with a roof pitch greater than 15°, an SHS header beam will be supplied in place of the C-Section header, and the eave bracket will be replaced with one or more eave plates as required, see Figure 42.

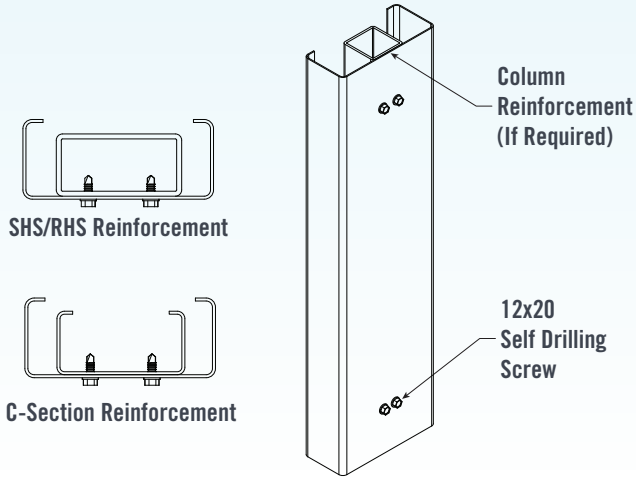



ROLLER DOOR HEADER BEAM ATTACHMENT- ALTERNATIVE PITCH
FIGURE 42

## ROLLER DOOR COLUMN REINFORCEMENT

If reinforcement is required for roller door columns, fix to the column with two 12x20 screws spaced 50mm apart, at maximum 450mm intervals along the length of the column. Ensure screws are within 100mm of each end of the reinforcement section. Column reinforcement should run the full length of the column. If the shed will be fixed in ground, the reinforcement should be embedded to the same depth as the column.

See Figure 43 for installation details.

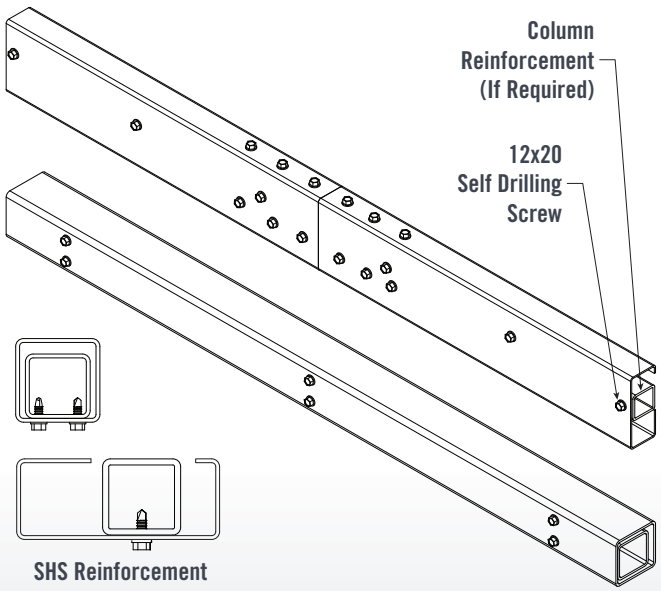



ROLLER DOOR COLUMN REINFORCEMENT
FIGURE 43

## ROLLER DOOR HEADER BEAM REINFORCEMENT

If reinforcement is required for roller door header beams, fix to the header beam with 12x20 screws at maximum 300mm centres (C-Section Header) or with two 12x20 screws spaced 50mm apart at maximum 450mm centres. Ensure screws are within 100mm of each end of the reinforcement section. Reinforcement should run the full length of the header beam.

See Figure 44 for installation details.




ROLLER HEADER BEAM REINFORCEMENT
FIGURE 44

## TYPE 1 - SINGLE ROLLER DOOR IN GABLE END, GABLE ROOF SHEDS OVER 5.4M WIDE

Gable Roof Sheds over 5.4m wide must be fitted with two additional front internal columns to support the single roller door.
Fix the internal columns at 745mm in from the outside edge of each corner column or at 592mm centres. The internal columns must be fixed to the rafter with two 100x100mm connection brackets positioned on either side of the column, see Figure 45.

Attach the header beam to the internal columns with two header beam brackets and two 12x20mm screws through each flange, followed by the roller door flashing, see Figure 45.

Short wall girts have been provided to span between the corner columns and internal columns. Fix girts each side with girt brackets using 10x16mm self drilling screws and two screws through each flange.

Install the roller door as per the manufacturers specifications.

Pan fix the Superdek® wall sheets to the open gable end with 10x16mm self drilling screws. Two full length wall sheets have been provided for either side of the roller door.

The barge capping and corner flashings can now be fixed to the gable end. Rivet all flashings at 600mm centres.

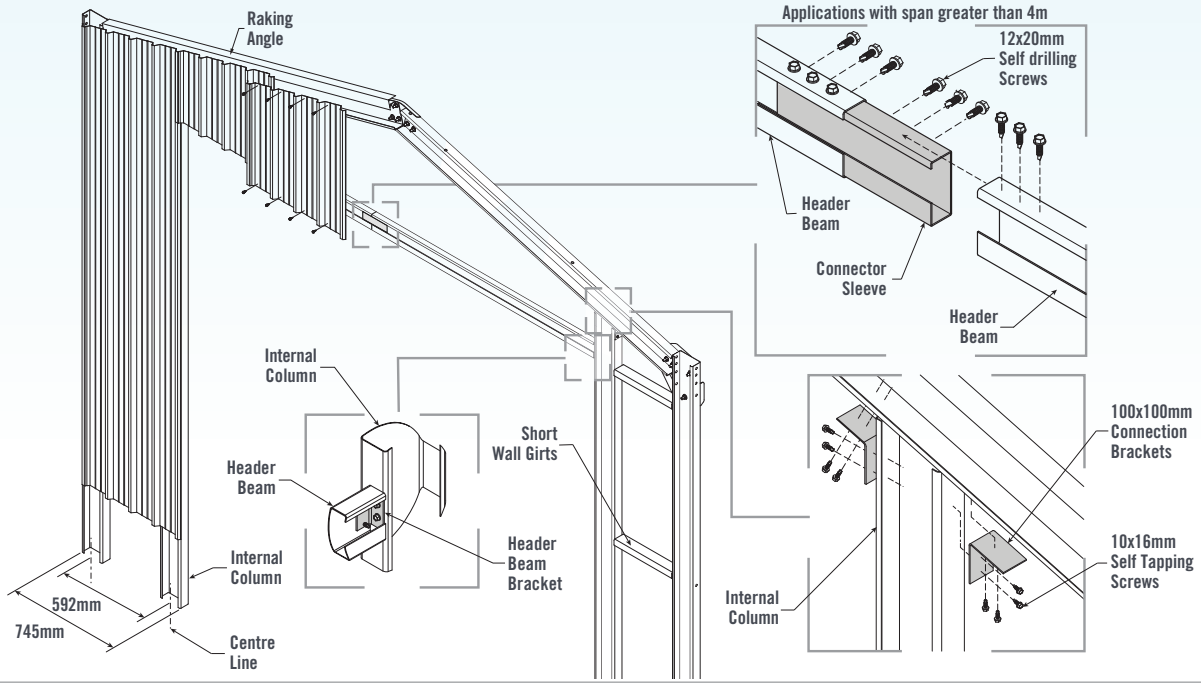



FIGURE 45

## TYPE 2 - MULTIPLE ROLLER DOORS IN GABLE END

Gable Roof Sheds with two roller doors in the gable end must be fitted with a Centre Roller Door Column and associated C150 Column Reinforcement, in the centre of the gable end.

The Centre Roller Door Column will support each roller door.

Fix the Centre Roller Door Column to the ridge using two 100x100mm Apex Brackets. Screw each bracket to the Rafter with two 12x20mm self drilling screws.

Similarly, screw the Centre Roller Door Column to each bracket with two 12x20mm self drilling screws, see Figure 46.

The installation of the header beam will follow the same process as for a single roller door, fixing through the flange of the Eaves Connection Bracket on a 15° shed (Figure 41), or through the Eaves Plates for other roof pitches (Figure 42).

Attach the header beams to the centre roller door column with header beam brackets and two 12x20 screws through each flange, followed by the roller door flashing, see Figure 47.

For centre column reinforcement fixing details see Figure 48.

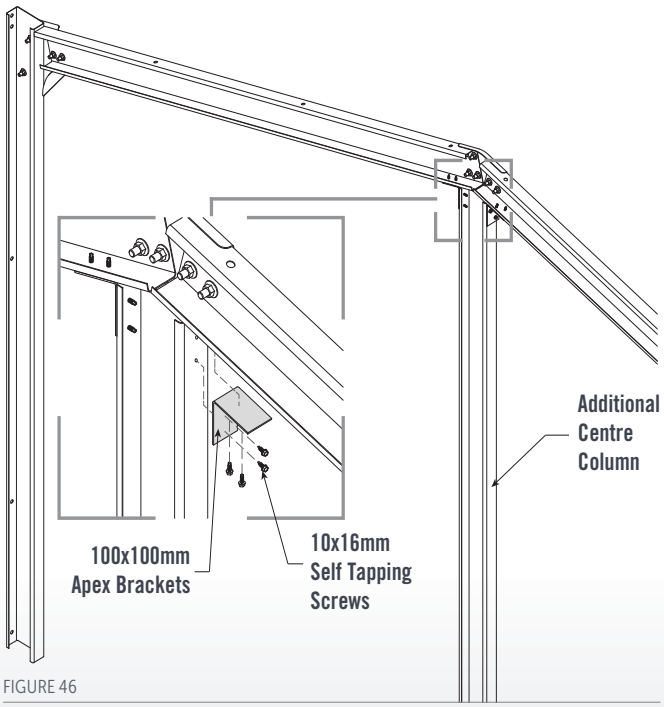



FIGURE 46

## TYPE 2 - MULTIPLE ROLLER DOORS IN GABLE END

Install the roller door as per the manufacturers specifications. The roller door brackets are fixed in place using the far side eaves bracket bolt and two 12x20mm screws provided, see Figure 41. Series 2 Door Brackets will require an additional bolt.

Rivet the roller door flashing to the front of the header beam, level at the bottom faces. Set the short gable Superdek® wall sheets into the roller door flashing and pan fix them to the raking angle and header beam with 10x16mm self drilling screws, see Figure 36.

The barge capping and corner flashings can now be installed. Fix all flashings with rivets at 600mm centres.

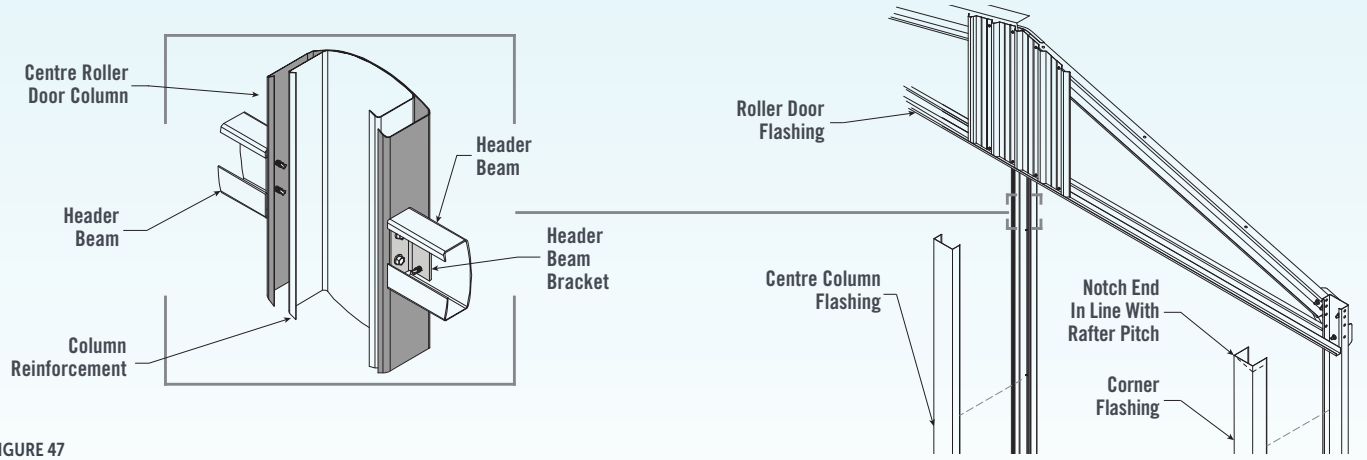



FIGURE 47

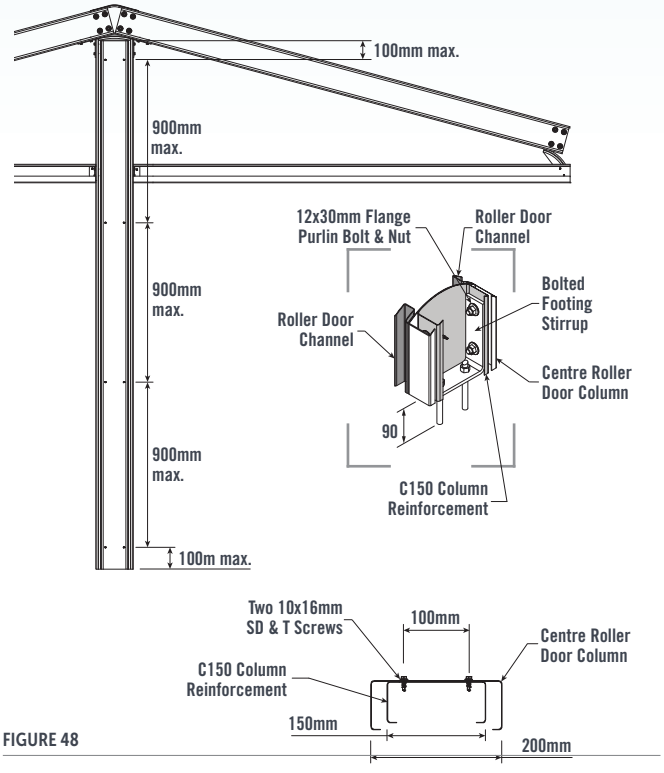
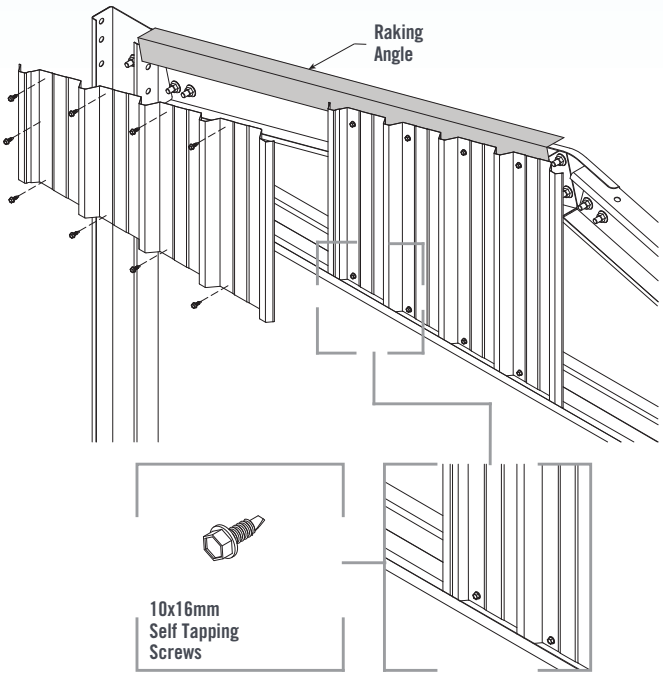



FIGURE 48



## ROLLER DOOR INSTALLATION - GUTTER SIDE

### TYPE 9 - SINGLE ROLLER DOOR

The roller door can be installed while building the wall panels on the ground, see Page 11. Roller door column flashings can be installed when the completed wall frames are standing.

Bolt both the left and right side roller door columns to the respective portal frame columns. Secure the header beam to each roller door column using two header beam brackets. Use two plain 12x20mm self drilling screws in each flange of the header beam brackets. The bottom face of the header beam should measure 300mm from the top of the top girt, see Figure 49. This will allow a fixing point for the 300mm Superdek® header sheets, see Figure 50.

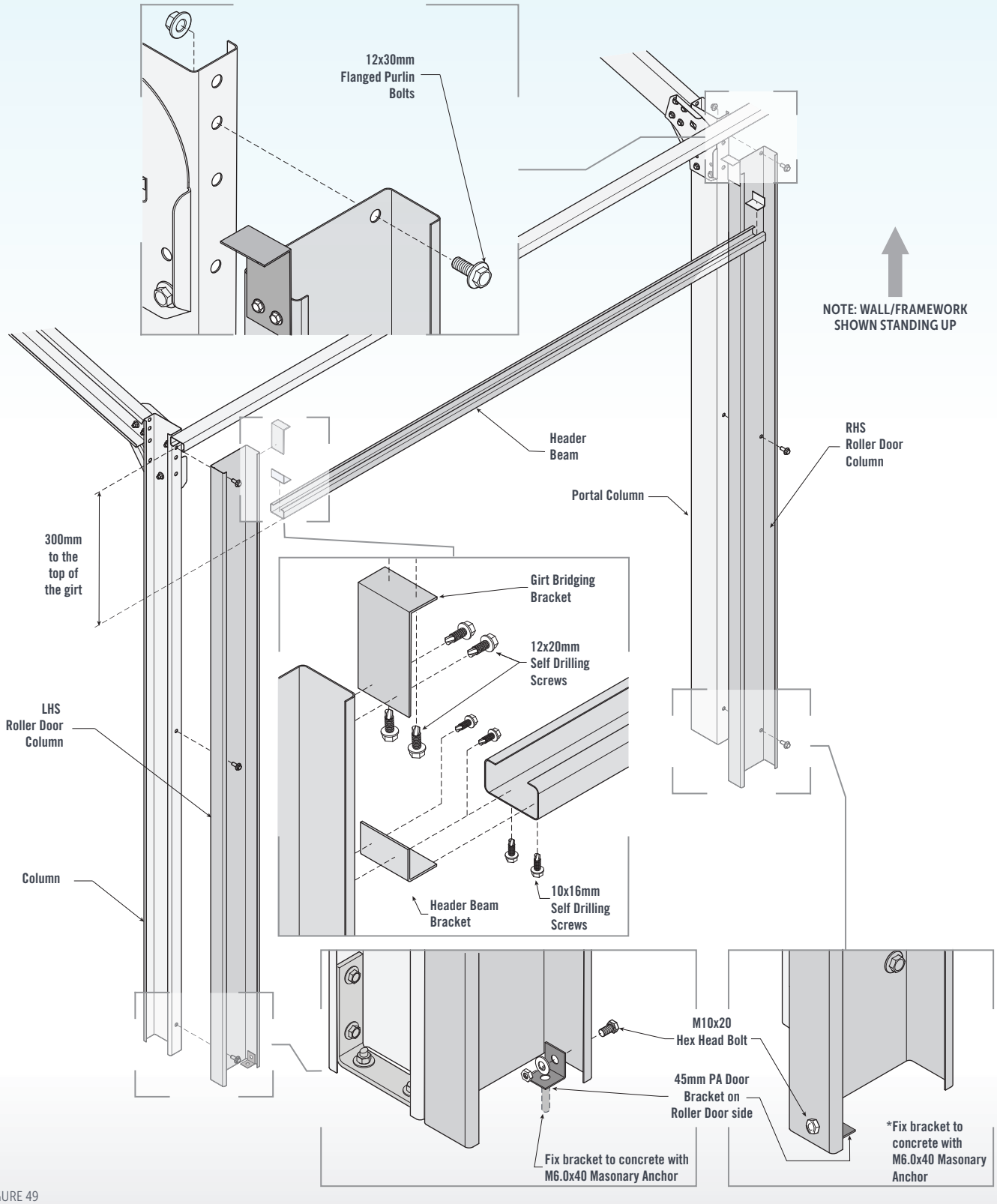



FIGURE 49

Slide the 300mm length Superdek® sheets into the header flashing and fix through to the header beam and top girt using coloured 10x16mm self drilling screws in every pan.

Position the roller door column flashings over the roller door columns, and in corner applications over the ends of the gable end sheets.

Fasten the two roller door column flashings (corner or wall depending on application) to your roller door columns using coloured 10x16mm self drilling screws at 600mm centres.

In applications where roller door column wall flashings are used, the flashing will need to be notched, see Figure 51. Rivet the roller door header flashing into place on the header beam using 3.2mm rivets at 600mm centres so that both bottom faces are flush, see Figure 51.

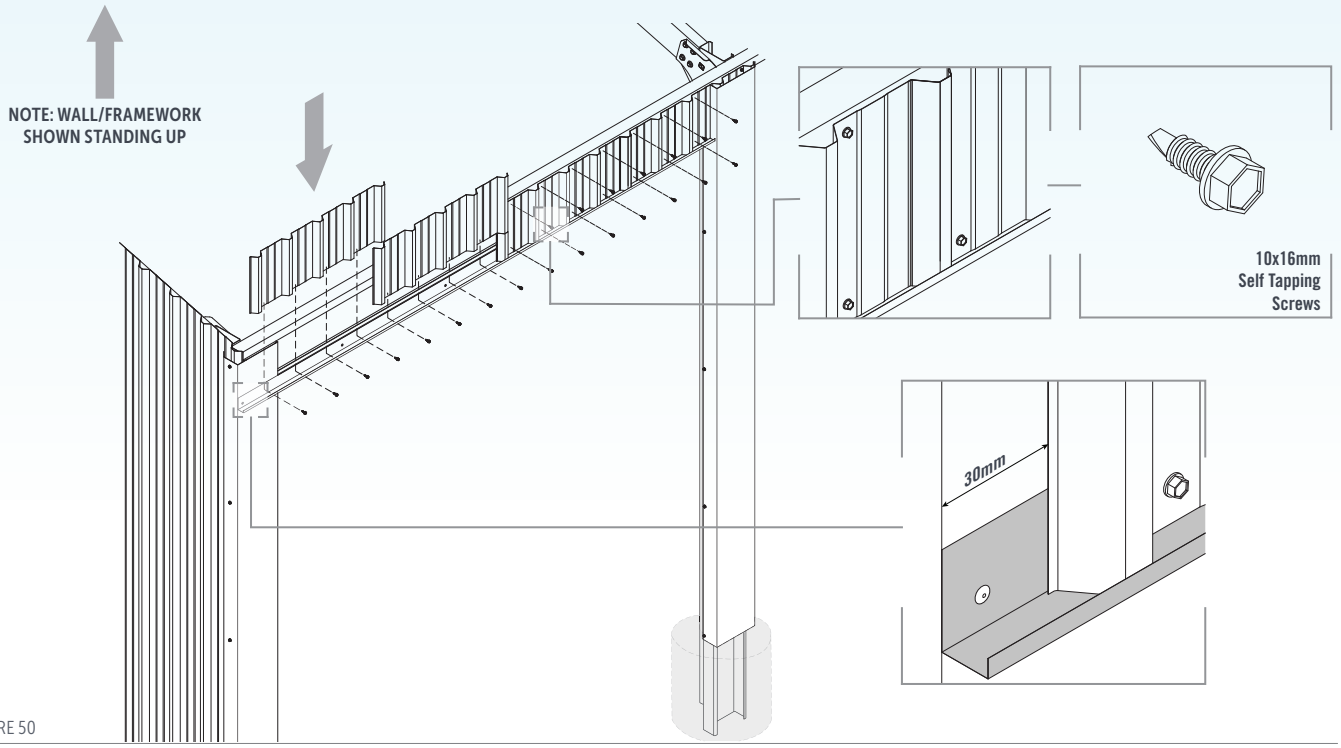



FIGURE 50

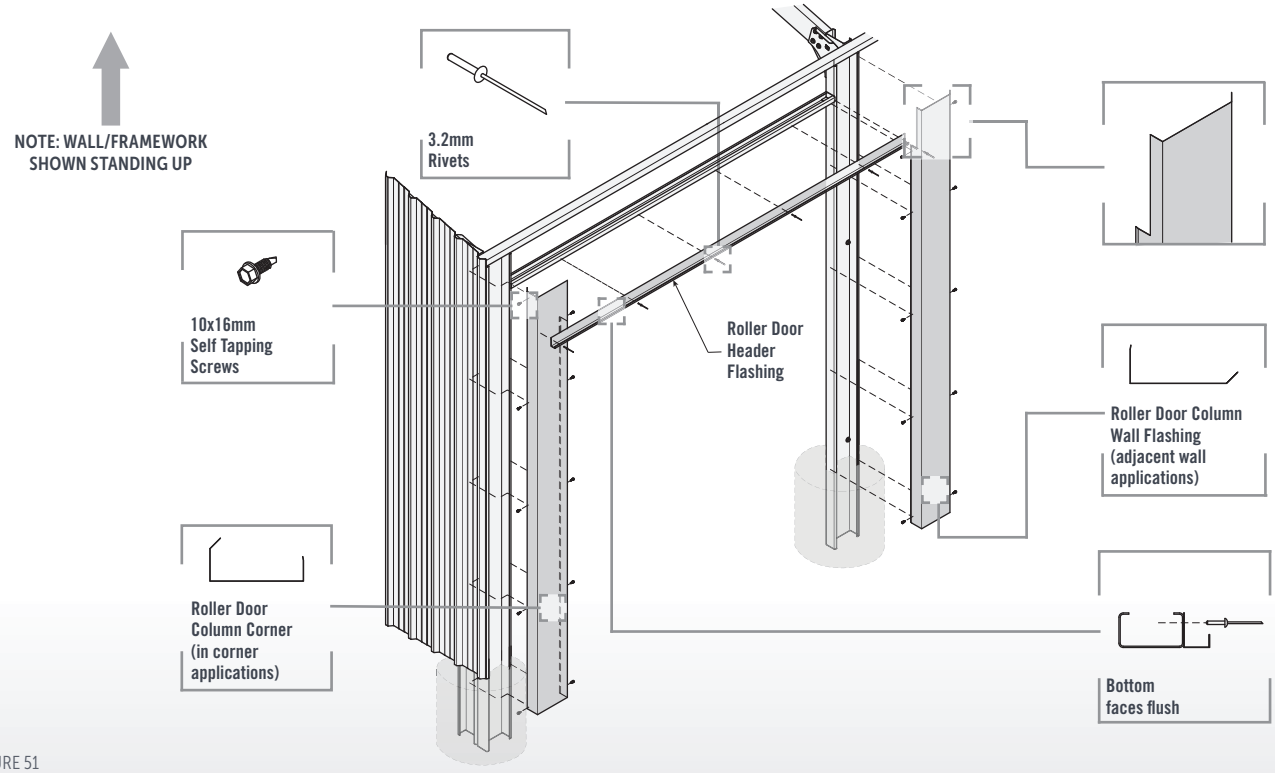



FIGURE 51

### TYPE 10, 11 AND 12 - MULTIPLE ROLLER DOORS

Start by bolting the left, right and intermediate side roller door columns to the respective portal frame columns. Secure the header beams to the roller door columns using two header beam brackets per header beam. Use two plain 12x20mm self drilling screws in each flange of the header beam brackets. The bottom face of the header beams should measure 300mm from the top of the top girt, see Figure 52, to allow a fixing point for the 300mm Superdek® header sheets.

Position the roller door column flashings over the roller door columns and in corner applications over the ends of the gable end sheets. Fasten the roller door column flashings (corner, intermediate or wall depending on application) to your roller door columns using coloured 10x16mm self drilling screws at 600mm centres. Flashings that interfere with header beams will require notching as shown in Figure 52.

Rivet the roller door header flashing into place on your header beam using 3.2mm rivets at 600mm centres so that both bottom faces are flush, see Figure 51. Slide the 300mm length Superdek® sheets into the header flashing and fix through to the header beam and top girt using coloured 10x16mm self drilling screws in every pan, see Figure 50.

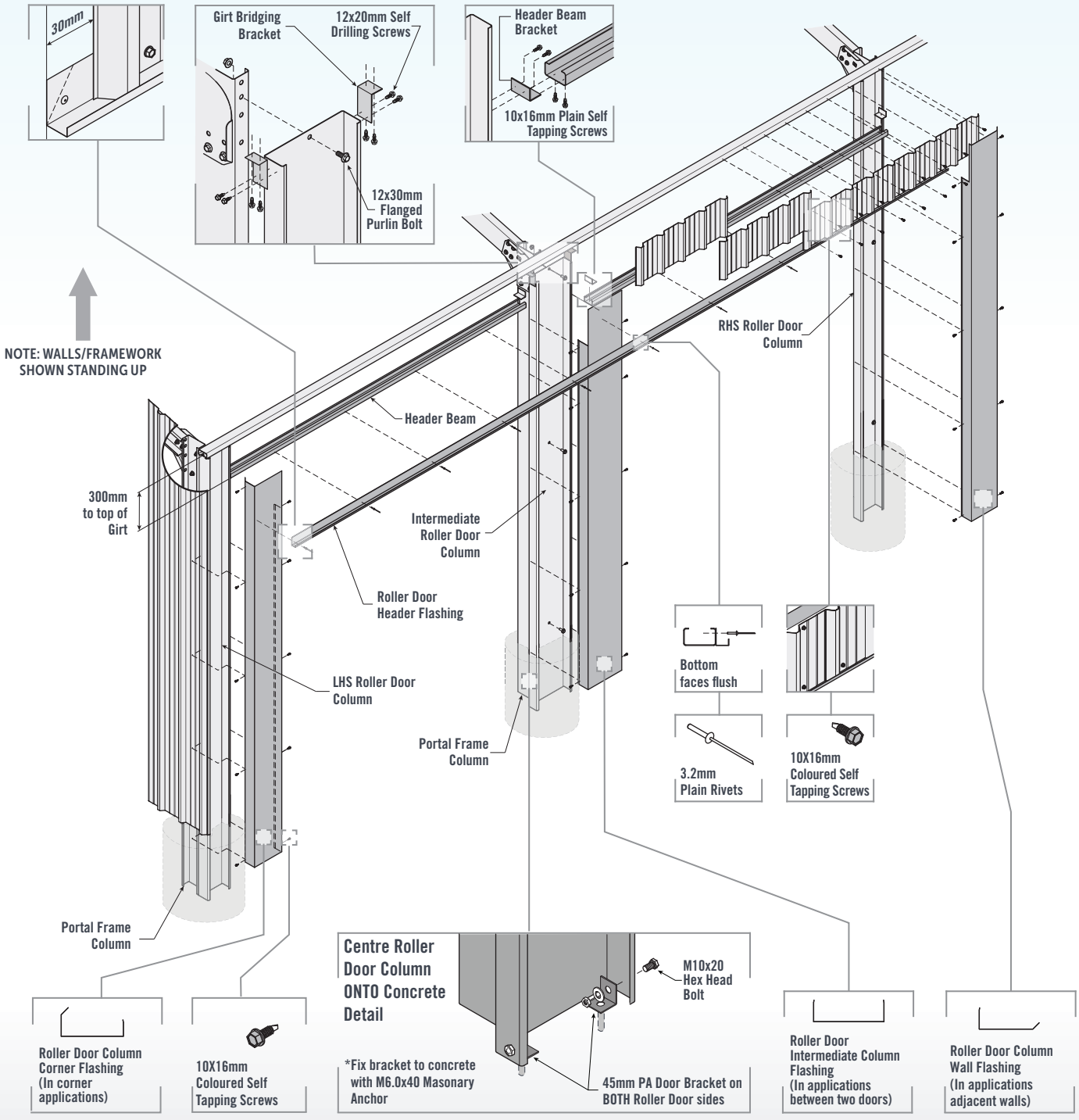



FIGURE 52

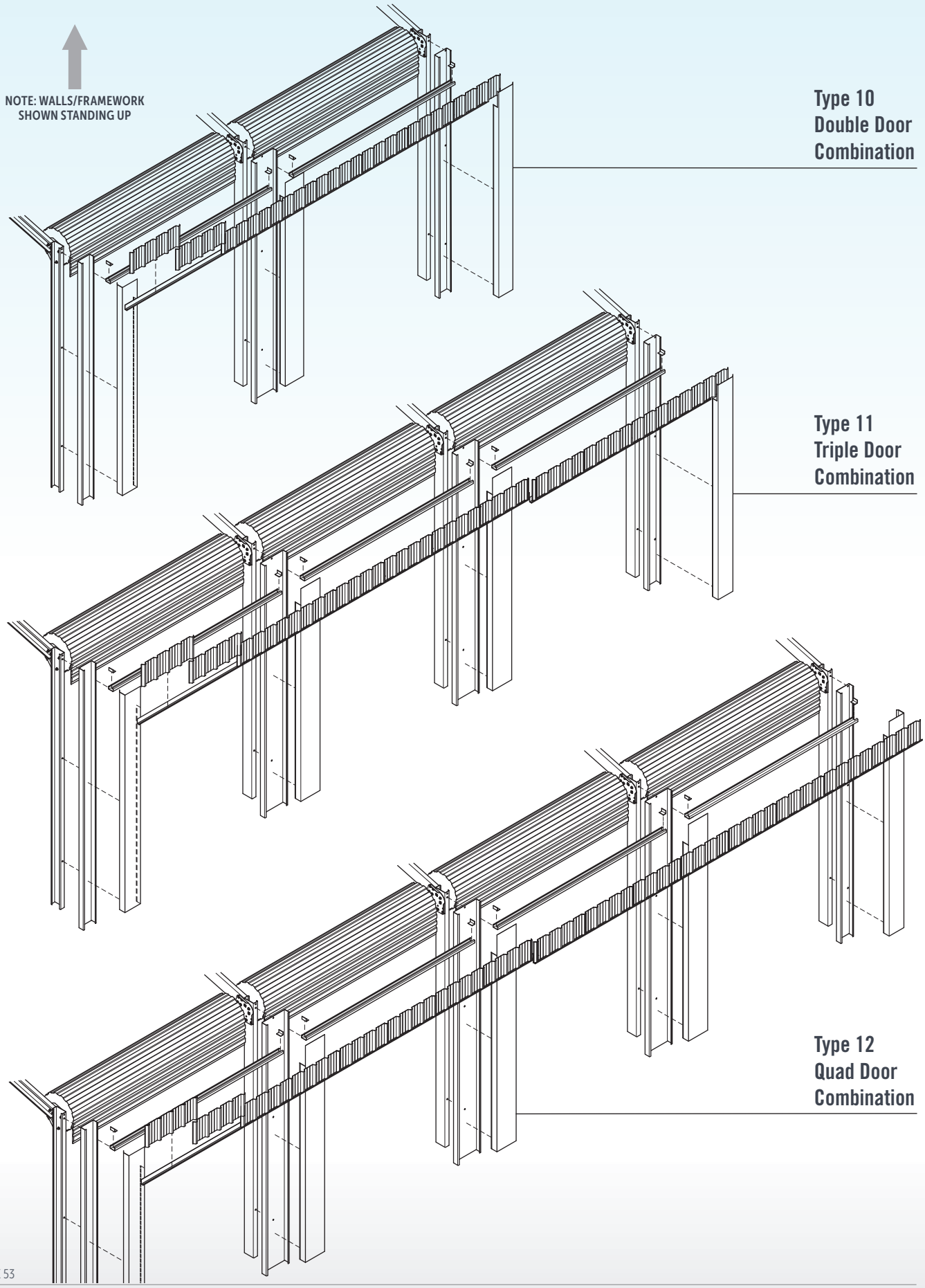

NOTE: WALLS/FRAMEWORK
SHOWN STANDING UP
Type 10
Double Door
Combination
Type 11
Triple Door
Combination
Type 12
Quad Door
Combination

FIGURE 53

# SLIDING DOOR INSTALLATION - GABLE END

### TYPE 3 - MULTIPLE SLIDING DOORS

Push both sliding door tracks through the double brackets and space at 800mm centres, see Figure 54. Place the track and brackets on top of the 50x50mm or 65x65mm header beam and mark the hole locations for each bracket. Position the end brackets approximately 150mm in from the ends of the tracks. Drill 10mm diameter holes as marked. The inside track may need trimming to fit between the eaves brackets.

Bolt the tracks to the header beam with one M8x75mm or M8x90mm hex head bolt per bracket.

Slide two nylon 4 wheel carriages into the end of each sliding door track.

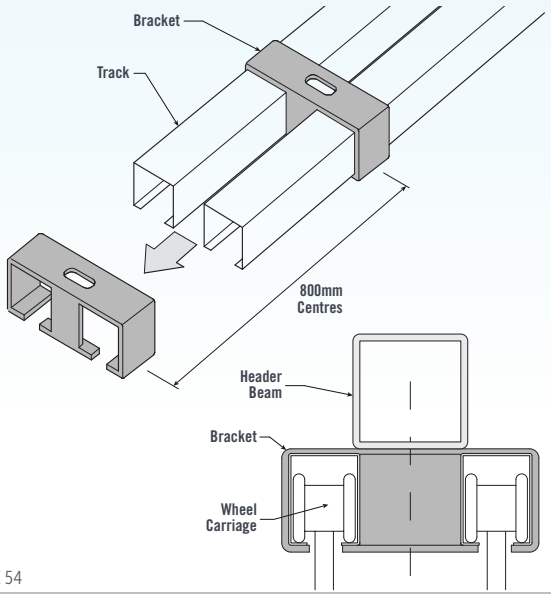



FIGURE 54

### HEADER BEAM INSTALLATION

The header beam installation process will be the same for both single or double sliding door configurations.

If required, insert the header beam reinforcement section into the sliding door header beam, and fix together with 2x 12x20 self drilling screws at 450mm centres, see Figure 55.

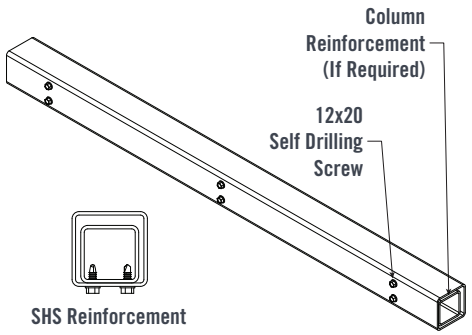



FIGURE 55

Before attaching the header beam, notch out the required amount of material at both ends so it can be placed in front of the eaves brackets and flush with the front face of the Gable Roof Shed columns. When done correctly it will provide a flush surface to attach the Superdek® gable end sheeting as well as locating the header beam at the correct height for the door opening, which is 270mm down from the top of the columns, see Figure 56.

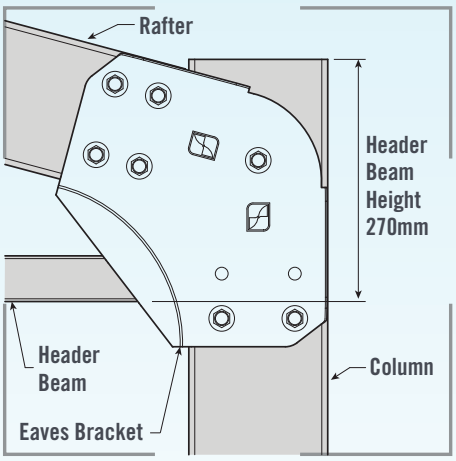
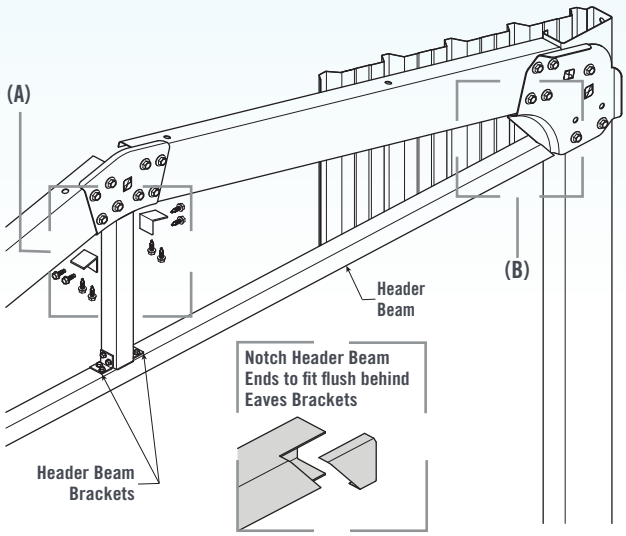



FIGURE 56



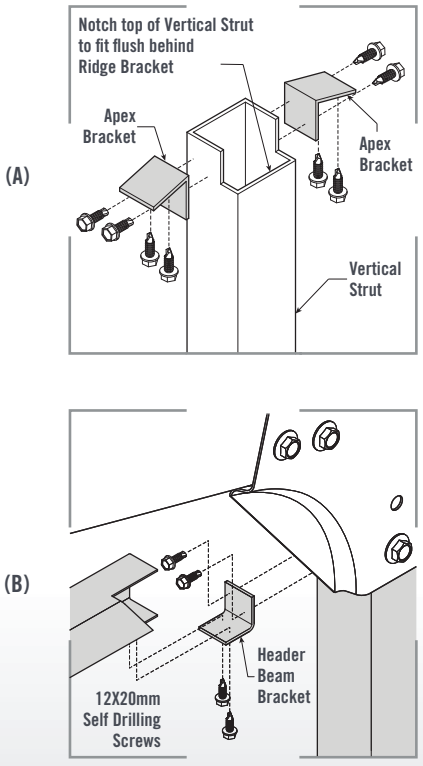




FIGURE 57

## SLIDING DOOR INSTALLATION - GABLE END

Use two header beam brackets to attach the header beam to the columns, see Figure 57 (B).

Screw the brackets to each column using two 12x20mm self drilling screws then place the header beam on top and use another two 12x20mm self drilling screws through each bracket to secure the header beam in place.

Notch the top of the vertical strut, see Figure 57 (A), and fasten in place between the ridge bracket connection point (apex) and the header beam using 12x20mm self drilling screws and the brackets provided, see Figure 57 (A).

Two header beam brackets are used to connect the strut to the header beam and two apex brackets are used to connect the strut at the apex.

Rivet the sliding door flashing to the 50x50mm or 65x65mm header beam then pan fix the Superdek® gable end wall sheets to the open gable end with 10x16mm self drilling screws, see Figure 58.

The barge capping and corner flashings can also be fixed to the gable end. Fix all flashings with rivets at 600mm centres.

Fix a track stop into each end of the front sliding door track.

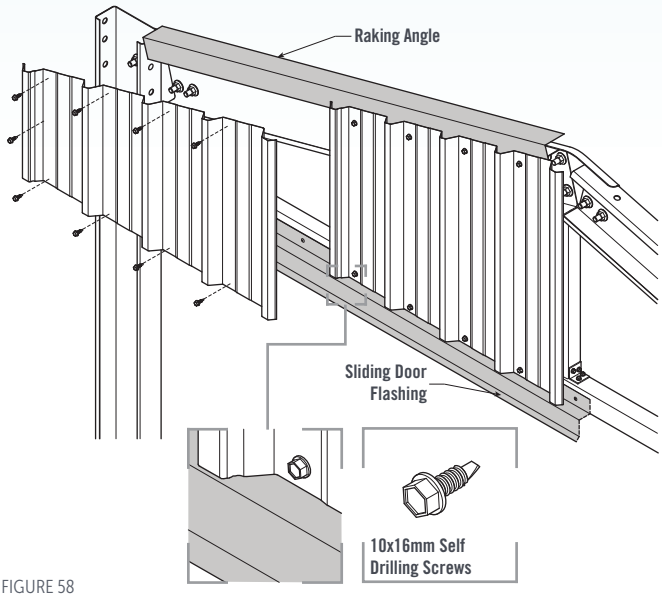



FIGURE 58

### HEADER EXTENSION FOR SINGLE SLIDING DOOR

If installing a single sliding door on the Gable End, additional header extension flashings will be required between every sliding door track support bracket to support the sliding door flashing and end wall sheets.

Use an M8x12mm counter sunk bolt to fix the support bracket to the track bracket, see Figure 59.

Push the sliding door track through the brackets and space at 800mm centres.

Slide two nylon 4 wheel carriages into the end of each sliding door track.

Fix the sliding door support brackets to the header beam with M10x16mm hex head bolts at 800mm centres.

Position the support bracket so the top face of the bracket is flush with the bottom of the header beam.

Fasten one header beam extension flashing between each support bracket with 12x20 Self Drilling Screws through the front and top face, see Figure 59.

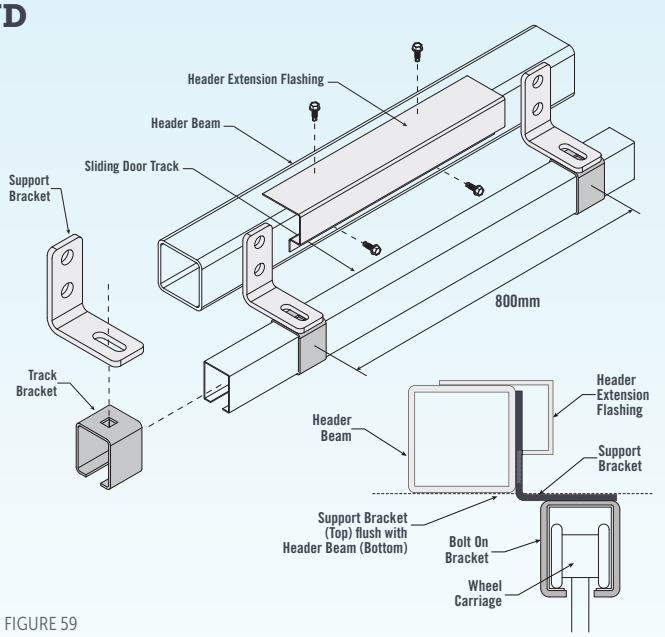



FIGURE 59

Rivet the sliding door flashing to the header extension flashing, then pan fix the Superdek® gable end wall sheets to the open gable end with 10x16mm self drilling screws.

Additional gable end wall sheets will also be required beside the sliding door opening. Pan fix these gable end sheets to the end wall girts with 10x16 self drilling screws. Note that an additional top end wall girt will be required beneath the header beam to secure the top of the sheets, see Figure 60.

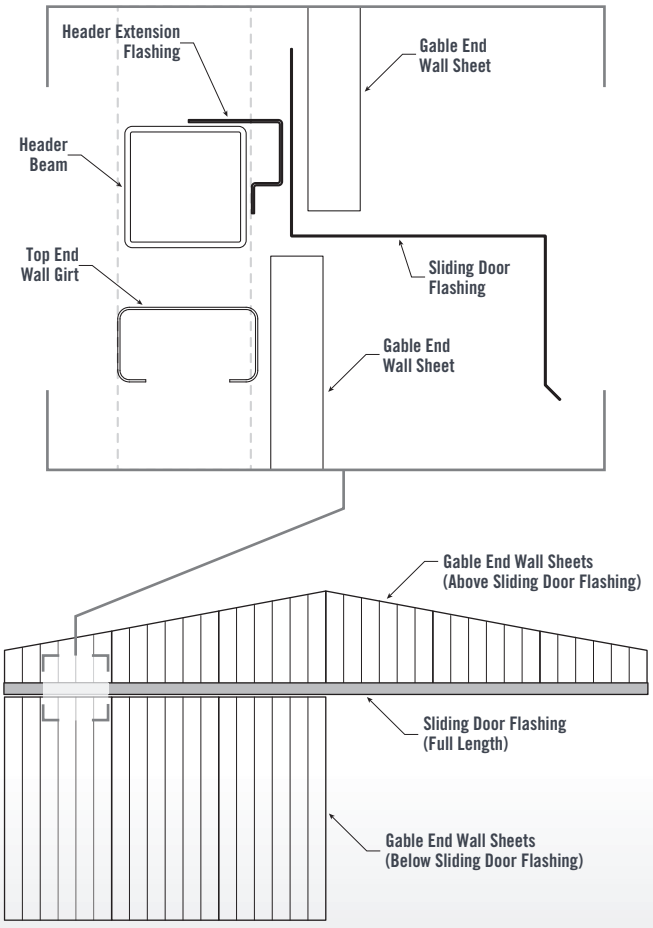



FIGURE 60

# SLIDING DOOR INSTALLATION - GABLE END

## SLIDING DOOR FRAME & SHEETS

Pan fix the Stratco Superdek® wall sheets to the sliding door frame with 10x16mm self drilling screws.

Start from one end, ensuring the under-lap lip is aligned with the edge of the frame, see Figure 61.

Rotate the final sheet, fixing the under-lap lip to the other end of the frame, see Figure 61 and 62.

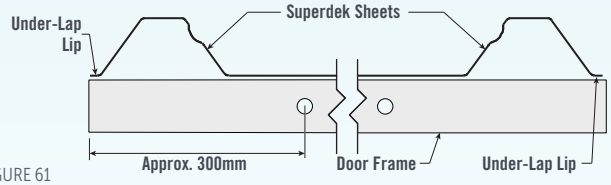



FIGURE 61

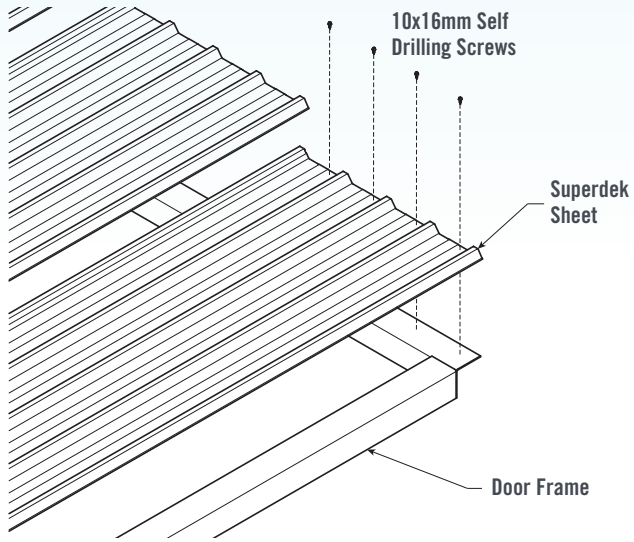



FIGURE 62

Drill a 10mm hole through the top horizontal member of the door frame approximately 300mm in from both sides. Lift the door and stand it directly under the door track. Insert the 8mm carriage pins through the 10mm holes and secure with a nut, see Figure 63. Adjust the height of the door accordingly. Ensure the door slides before footings are poured.

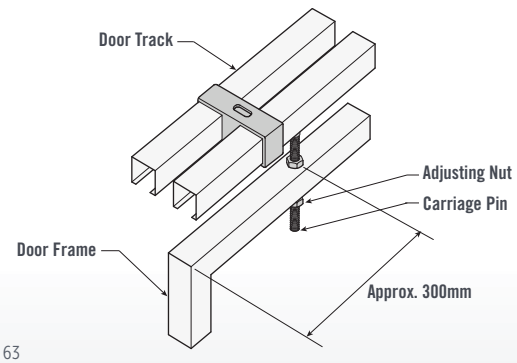



FIGURE 63

Once the footings have been poured, bolt the polycarbonate floor guides to a concrete base with four M8x65mm masonry anchors.

The central floor guides are located side by side, see Figure 64.

Please refer to the Manufacturer's installation details for the sliding door lock assembly instructions.

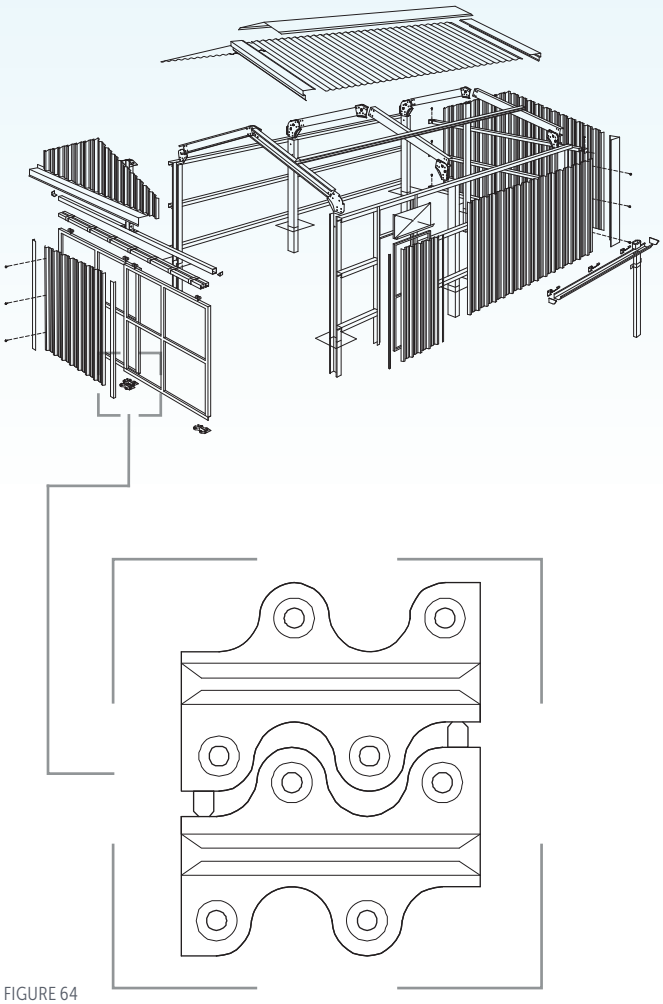


FIGURE 64

# SLIDING DOOR INSTALLATION - GUTTER SIDE

## FRAMEWORK

It is recommended that the framework is constructed together with the side wall assembly. Lay the lipped C-section columns on the ground making sure the open side of each column is facing the correct way.

As a general rule, the open side of each column will face the rear of the Gable Roof Shed, except the front columns which face the front of the Gable Roof Shed.

Note: Due to on-site adjustments and variances in bay spacings, header beams will be supplied un-punched.

Fix the header beam brackets to the columns using M12x30 flanged purlin bolts. Place the 150mm header beam over the header beam brackets so that the top of the header beam is in line with the top of the column, see Figure 65 and 66. From the inside of the beam mark the hole locations with a pencil and drill 14mm holes where required. Bolt the header beam to the header beam brackets, see Figure 65 and 66, using M12x30 flanged purlin bolts.

Place the wall girts across the columns, leaving an opening between the columns where the sliding doors will be positioned. Match the pre-drilled holes and fix each girt to each column with M12x30 flanged purlin bolts and nuts.

Place the filler column on top of the front end column, see Figure 65 and 66. Fasten the columns together using M12x30 flanged bolts and nuts. For Gable Roof Sheds shorter than 12.3m long, a filler column will need to be fixed to the rear end column. Similarly, fasten both columns together with M12x30 flanged purlin bolts and nuts.

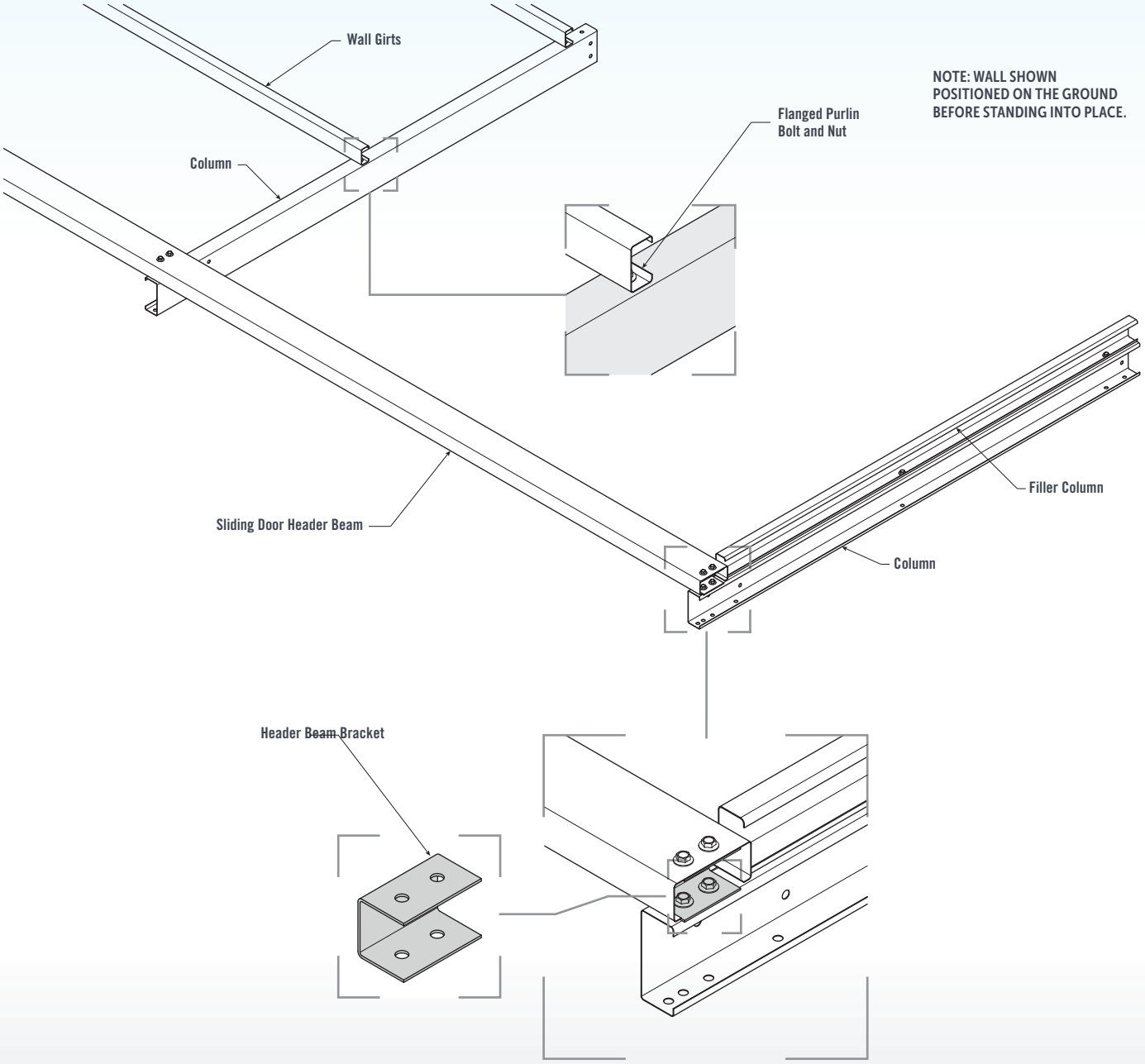



FIGURE 65

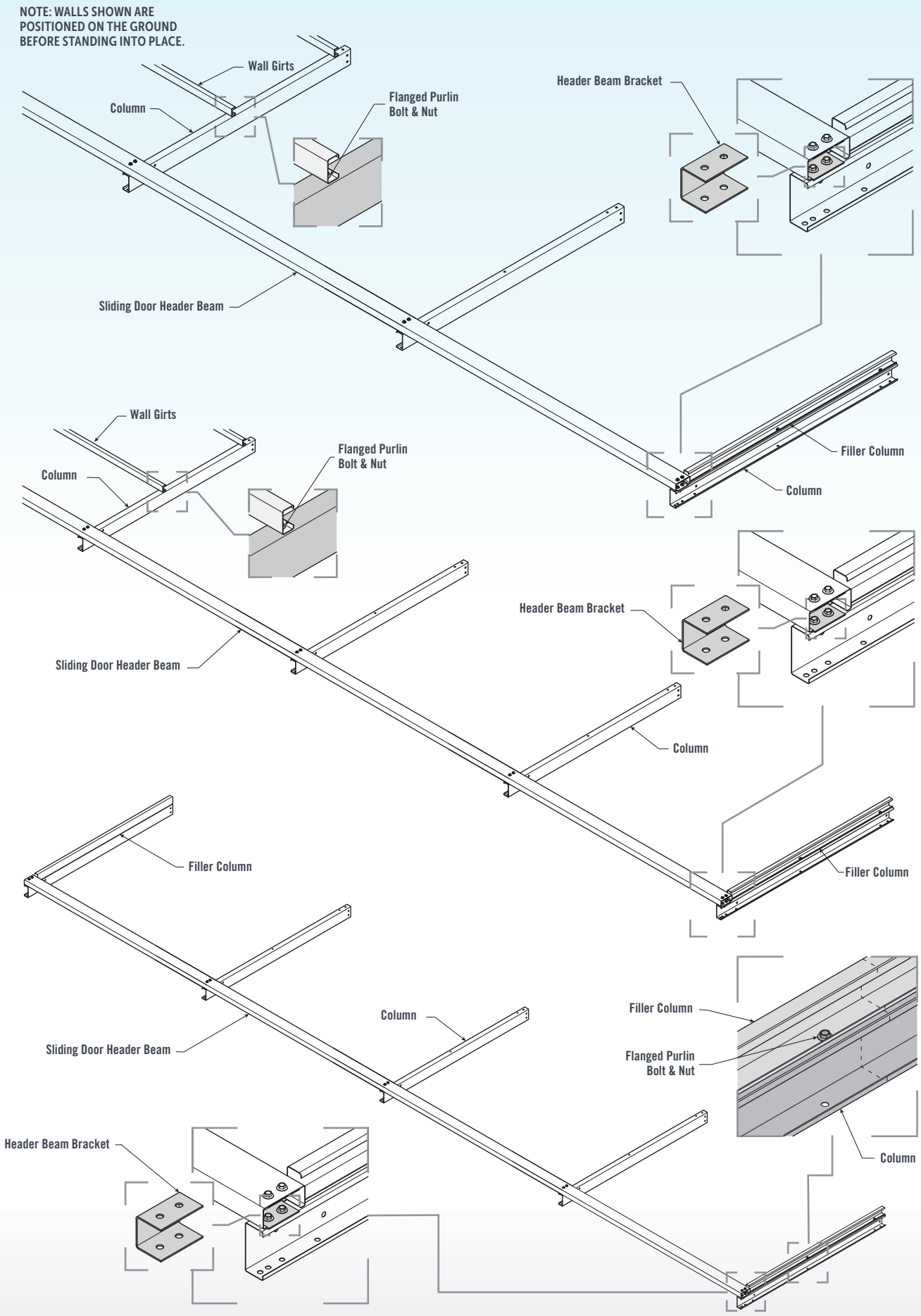

NOTE: WALLS SHOWN ARE POSITIONED ON THE GROUND BEFORE STANDING INTO PLACE.
Wall Girts
Column
Flanged Purlin Bolt & Nut
Header Beam Bracket
Sliding Door Header Beam
Filler Column
Column
Wall Girts
Column
Flanged Purlin Bolt & Nut
Header Beam Bracket
Sliding Door Header Beam
Column
Filler Column
Filler Column
Column
Filler Column
Flanged Purlin Bolt & Nut
Sliding Door Header Beam
Column
Header Beam Bracket

FIGURE 66

Where the sliding door header beam is to be joined, a header beam joiner is required.

The connection of the header beams must be bolted over the centre of the portal frame.

Attach the joining plate to the header beams with six M10x20mm fascia bolts. Four bolts must also secure the header beam bracket, see Figure 67. Use four wafer head screws to join the top face of the header beam joiner to the header beams.

Fix the header beam to the centre portal frame through the header beam bracket using two purlin bolts, see Figure 68.

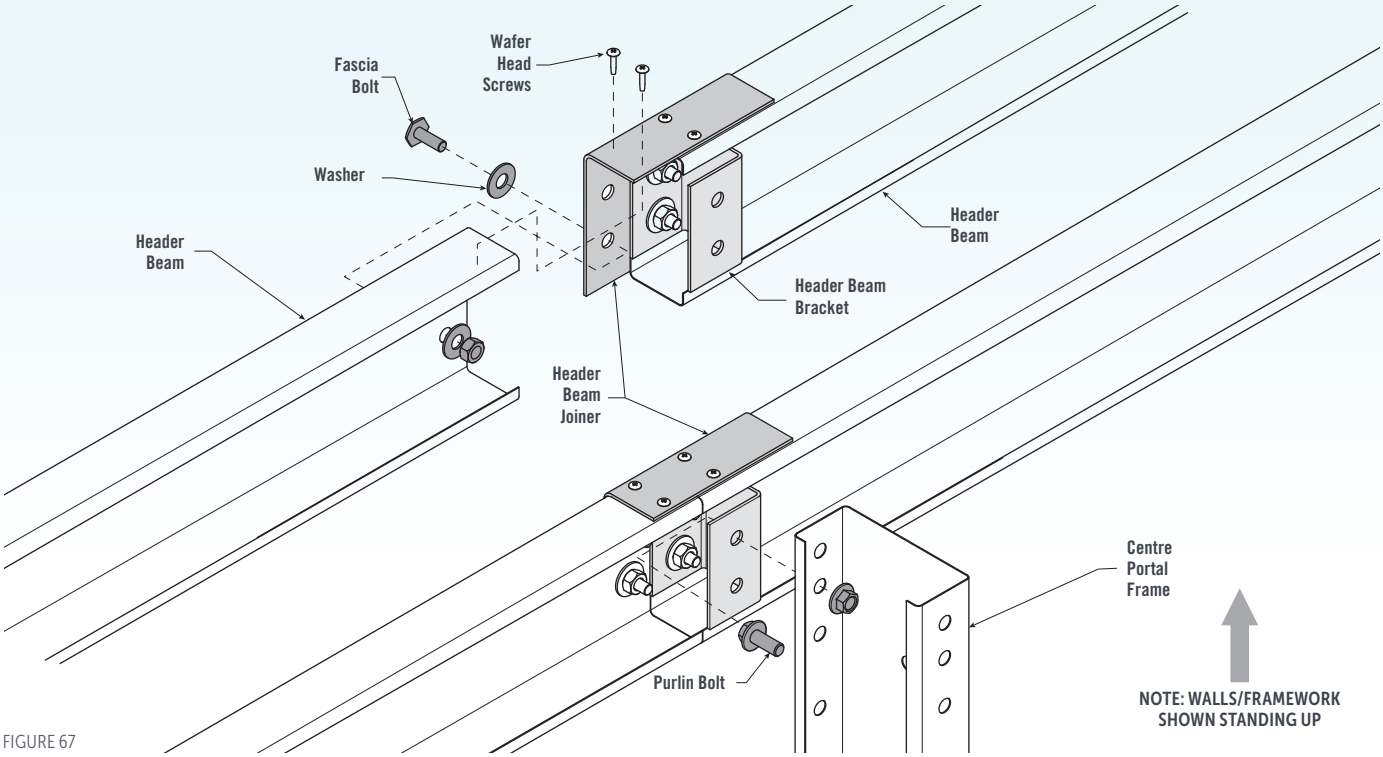



FIGURE 67

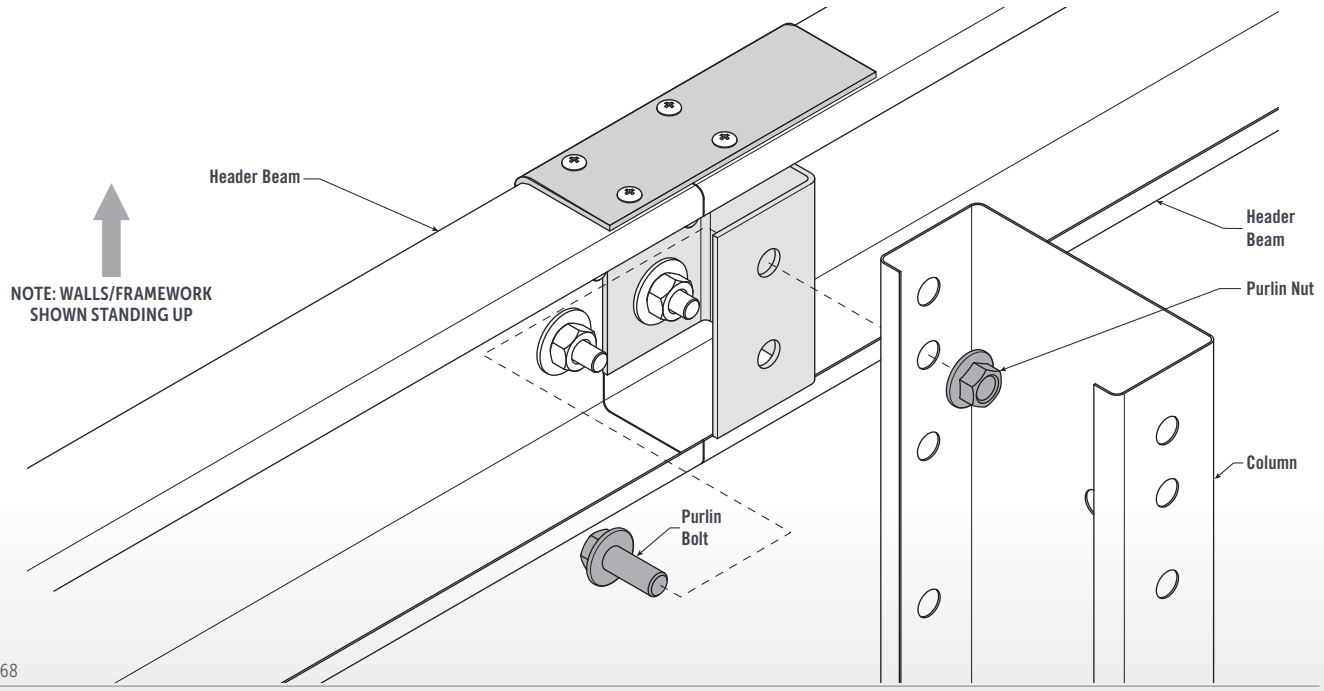



FIGURE 68

## SLIDING DOOR INSTALLATION - GUTTER SIDE

### TYPE 4 - SINGLE SLIDING DOORS

Ensure framework is square and the diagonal measurements are equal. Start sheeting from one end, ensuring the under-lap is aligned with the edge of the wall girts. Pan fix the wall sheets with 10x16mm self drilling screws at every wall sheet and girt junction. The top of each wall sheet must finish 5mm below the top of the sliding door header beam. This will prevent any rubbing between wall and roof sheets.

Use an M8x12mm counter sunk bolt to fix the support bracket to the track bracket, see Figure 69.

Push the sliding door track through the brackets and space at 800mm centres.

Slide two nylon 4 wheel carriages into the end of each sliding door track.

Fix the sliding door support brackets to the header beam with M10x16mm hex head bolts at 800mm centres.

Position the support bracket so the top face of the bracket is flush with the bottom of the header beam, see Figure 71.

A "top hat" shaped flashing has been supplied to pack the area above the sliding door. Place the flashing over the top of the flanged purlin bolt heads, see Figure 70, and fasten to the header beam at 600mm centres with 10x16mm self drilling screws.

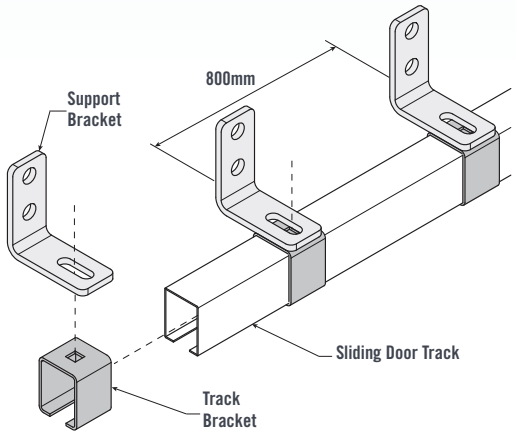



FIGURE 69

Fix the header beam packer flashing to the "top hat" flashing and header beam with rivets at approximately 300mm centres.

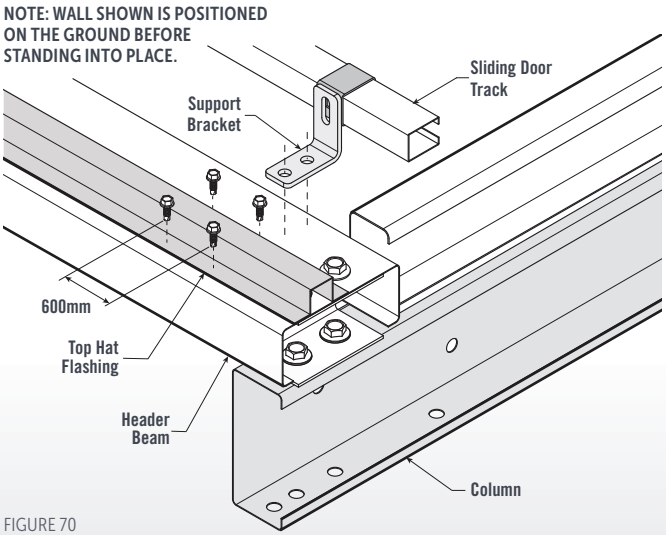



FIGURE 70

Rivet the sliding door flashing to the packer flashing at 300mm centres. Align the sliding door flashing with the bottom face of the header beam packer flashing, see Figure 70.

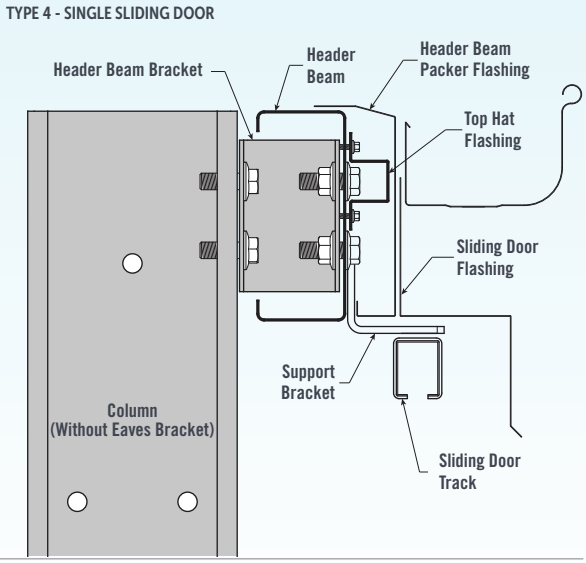



FIGURE 71

Fix the gutter brackets to the header beam packer flashing at approximately 1000mm centres with rivets.

Once the gutter brackets have been installed, roll the gutter bead onto the gutter bracket and clip the back of the gutter into position, see Figure 72.

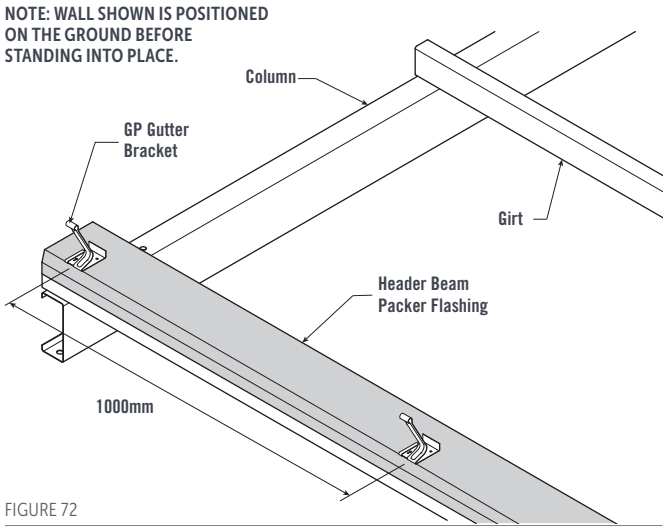



FIGURE 72

Stand the wall frame in the footing holes, and temporarily brace it with props.

Fix a track stop into each end of the front sliding door track.

Pan fix the Stratco Superdek® wall sheets to the sliding door frame with 10x16mm self drilling screws.

Start from one end, ensuring the under-lap lip is aligned with the edge of the frame, see Figure 73 and 74.

Rotate the final sheet, fixing the under-lap lip to the other end of the frame, see Figure 73.

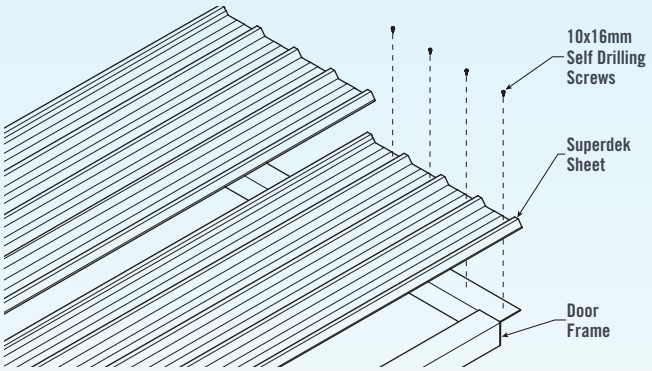



FIGURE 73

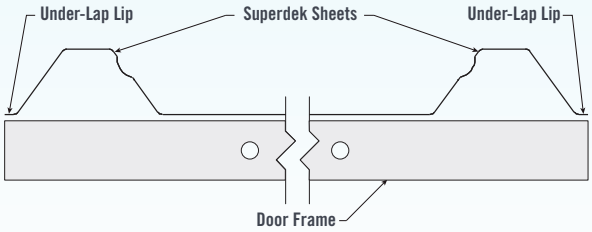



FIGURE 74

Lift the door, and stand it directly under the door track. Insert the carriage pin through the top of the door frame and secure with a nut, see Figure 74.

Adjust the height of the door accordingly. Ensure the door slides before footings are poured.

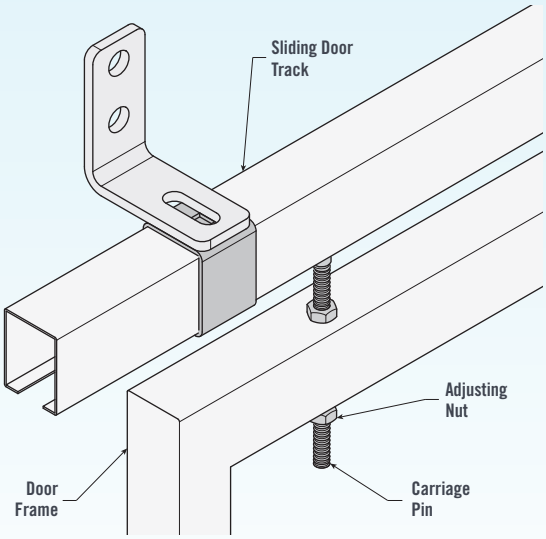



FIGURE 75

Once the footings have been poured, bolt the polycarbonate floor guides to a concrete base with four M8x65mm masonry anchors. The central floor guides are located side by side, see Figure 75. Please refer to the Manufacturer's installation details for the sliding door lock assembly instructions.

**TYPE 4 - SINGLE SLIDING DOORS**

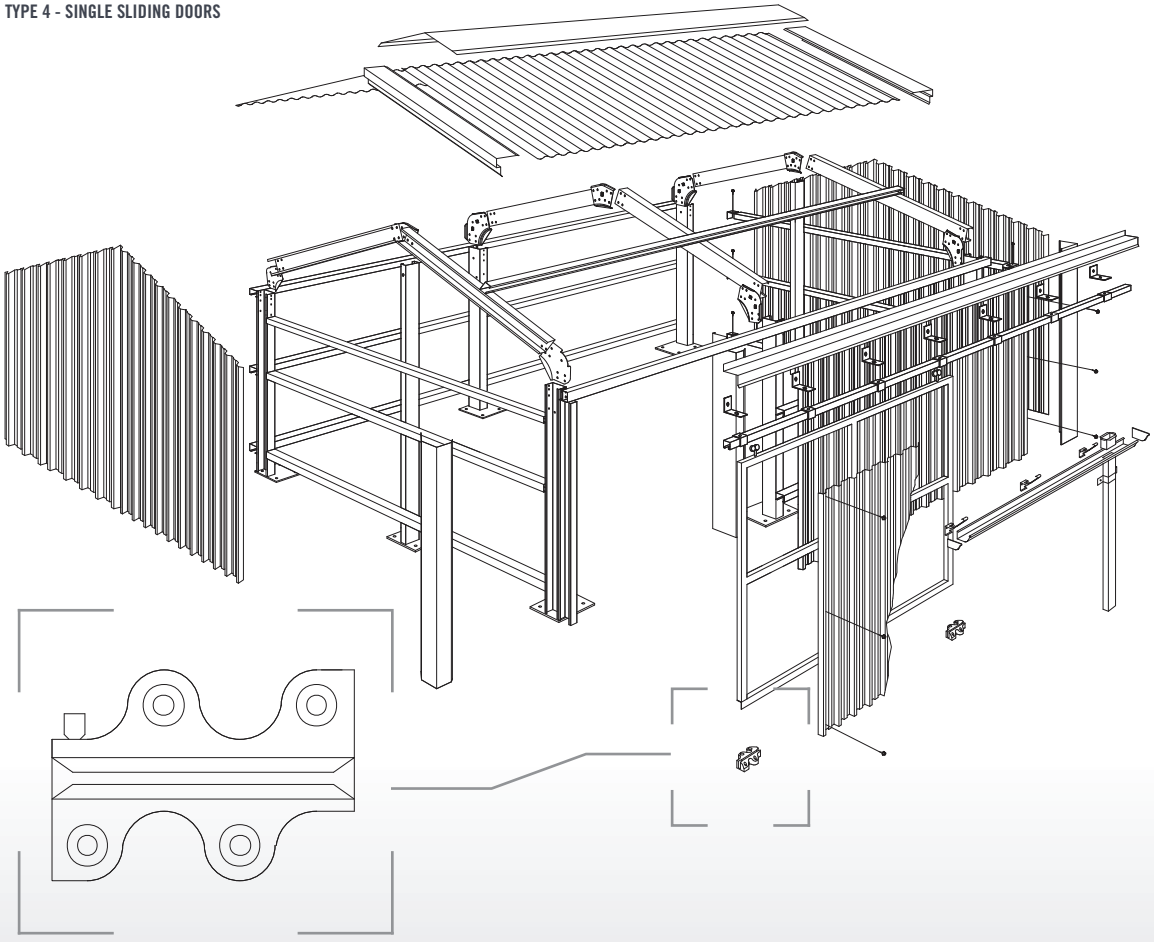


FIGURE 76

# SLIDING DOOR INSTALLATION - GUTTER SIDE

## TYPE 5, 6 AND 7 - MULTIPLE SLIDING DOORS

Ensure framework is square and the diagonal measurements are equal. Start sheeting from one end, ensuring the under-lap is aligned with the edge of the wall girts. Pan fix the wall sheets with 10x16mm self drilling screws at every wall sheet and girt junction. The top of each wall sheet must finish 5mm below the top of the sliding door header beam. This will prevent any rubbing between wall and roof sheets.

Push both sliding door tracks through the double support brackets. Space the brackets at approximately 800mm centres, see Figure 77. Slide two nylon, 4 wheel carriages into each sliding door track.

Drill the base of the header beam with 10mm diameter holes at 800mm centres to match the bracket spacing. Bolt the double brackets with track to the under side of the header beam with M8x20mm hex head bolts, see Figure 78.

Rivet the sliding door flashing to the header beam at 300mm centres. Position the flashing above the track, see Figure 79.

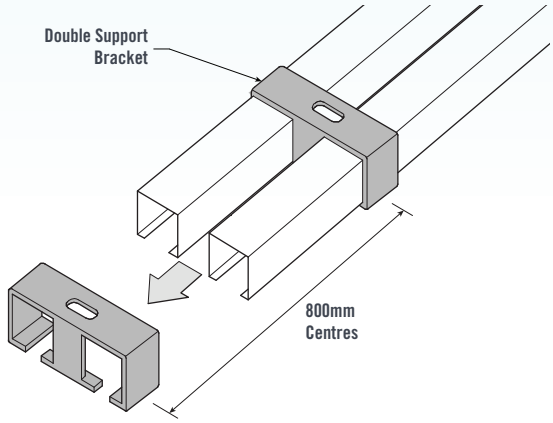



FIGURE 77

A "top hat" shaped flashing has been supplied to pack the area above the sliding door. Fix the "top hat" flashing to the header beam at 600mm centres with 10x16mm self drilling screws, see Figure 78. Position the "top hat" flashing over the flanged purlin bolt head closest to the top of the column.

Fix the header beam packer flashing to the "top hat" flashing and header beam with rivets at approximately 300mm centres.

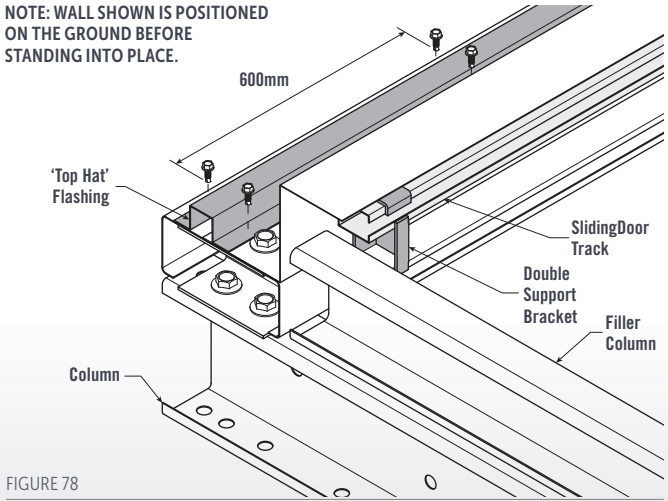



FIGURE 78

TYPE 5,6,7 - MULTIPLE SLIDING DOORS

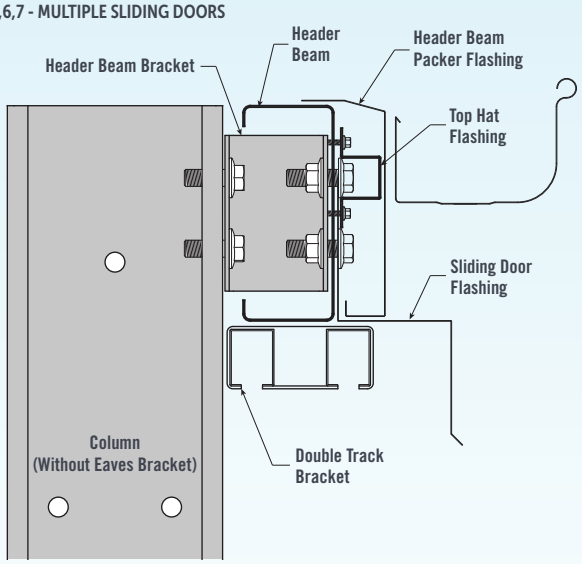



FIGURE 79

Rivet a left and right hand stop end to each length of gutter and seal with silicone.

Cut a hole for each downpipe outlet and rivet the outlet into position and again seal with silicone.

Fix the gutter brackets to the header beam packer flashing at approximately 1000mm centres with rivets.

Once the gutter brackets have been installed, roll the gutter bead onto the gutter bracket and clip the back of the gutter into position, see Figure 80.

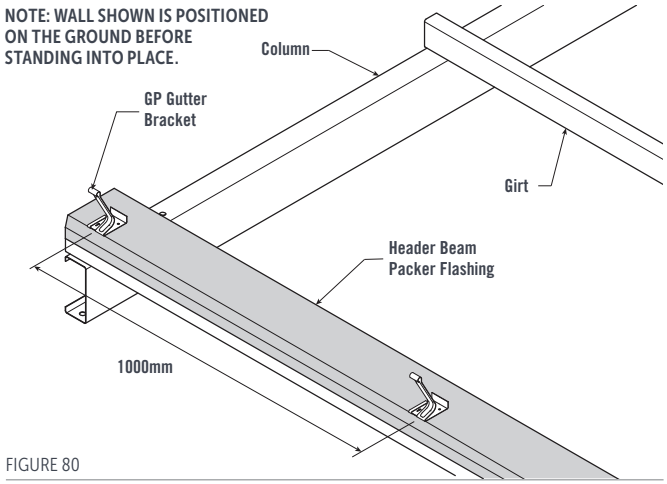



FIGURE 80

Stand the wall frame in the footing holes, and temporarily brace it with props.

Fix a track stop into each end of the front sliding door track.

Pan fix the Stratco Superdek® wall sheets to the sliding door frame with 10x16mm self drilling screws.

Start from one end, ensuring the under-lap lip is aligned with the edge of the frame, see Figure 80 and 81.

Rotate the final sheet, fixing the under-lap lip to the other end of the frame, see Figure 80.

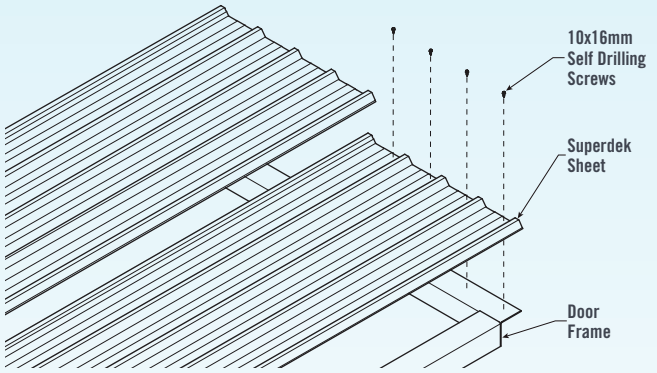



FIGURE 81

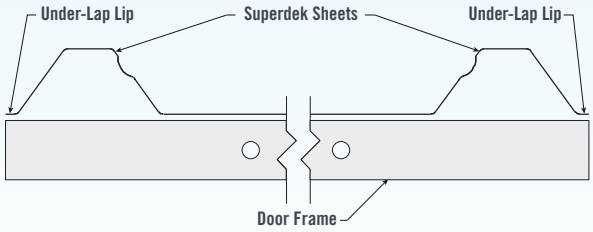



FIGURE 82

Lift the door, and stand it directly under the door track. Insert the carriage pin through the top of the door frame and secure with a nut, see Figure 83.

Adjust the height of the door accordingly. Ensure the door slides before footings are poured.

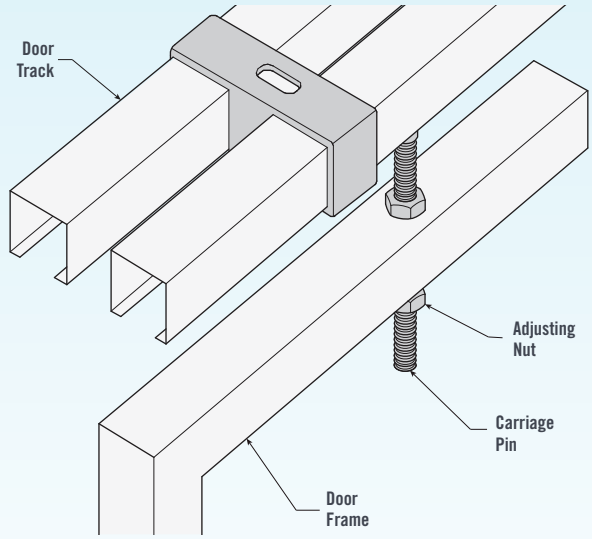



FIGURE 83

Once the footings have been poured, bolt the polycarbonate floor guides to a concrete base with four M8x65mm masonry anchors.

The central floor guides are located side by side, see Figure 84, 85 and 86.

Please refer to the Manufacturer's installation details for the sliding door lock assembly instructions.

**TYPE 5 - MULTIPLE SLIDING DOORS**

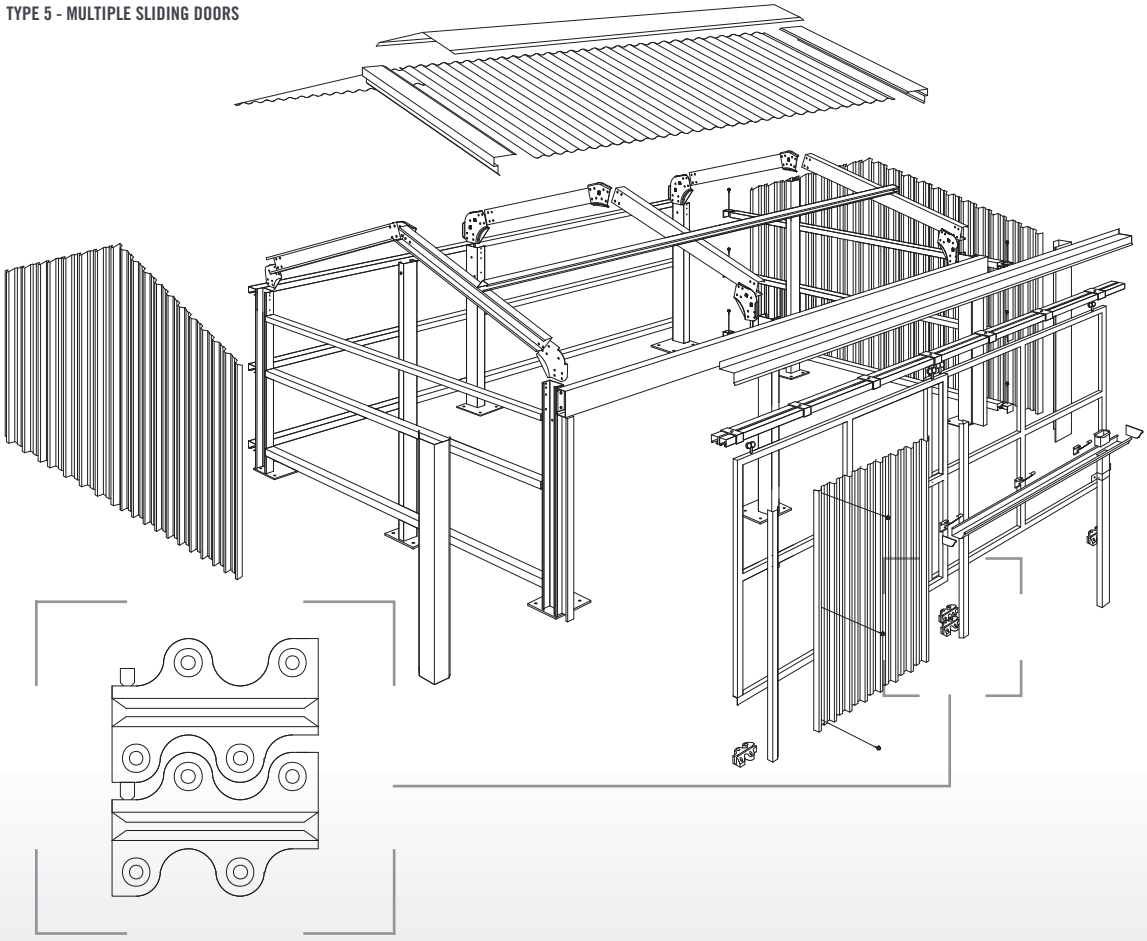


FIGURE 84

TYPE 6 - MULTIPLE SLIDING DOORS

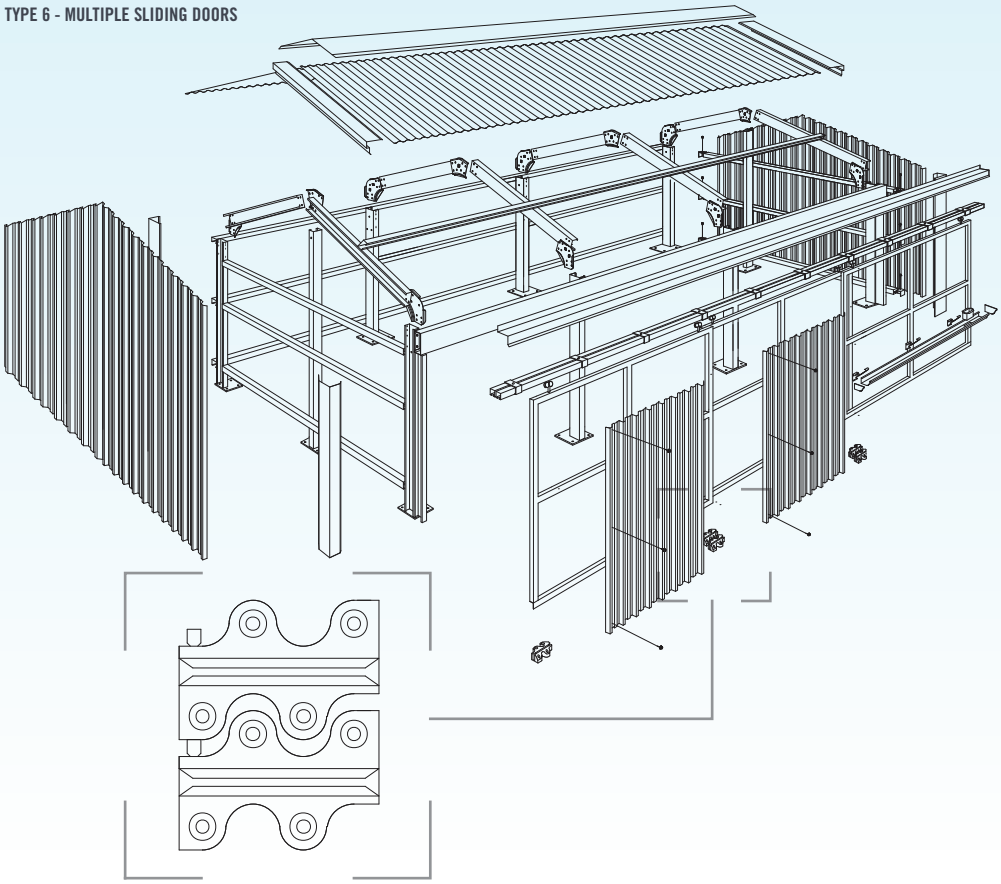


FIGURE 85

TYPE 7 - MULTIPLE SLIDING DOORS

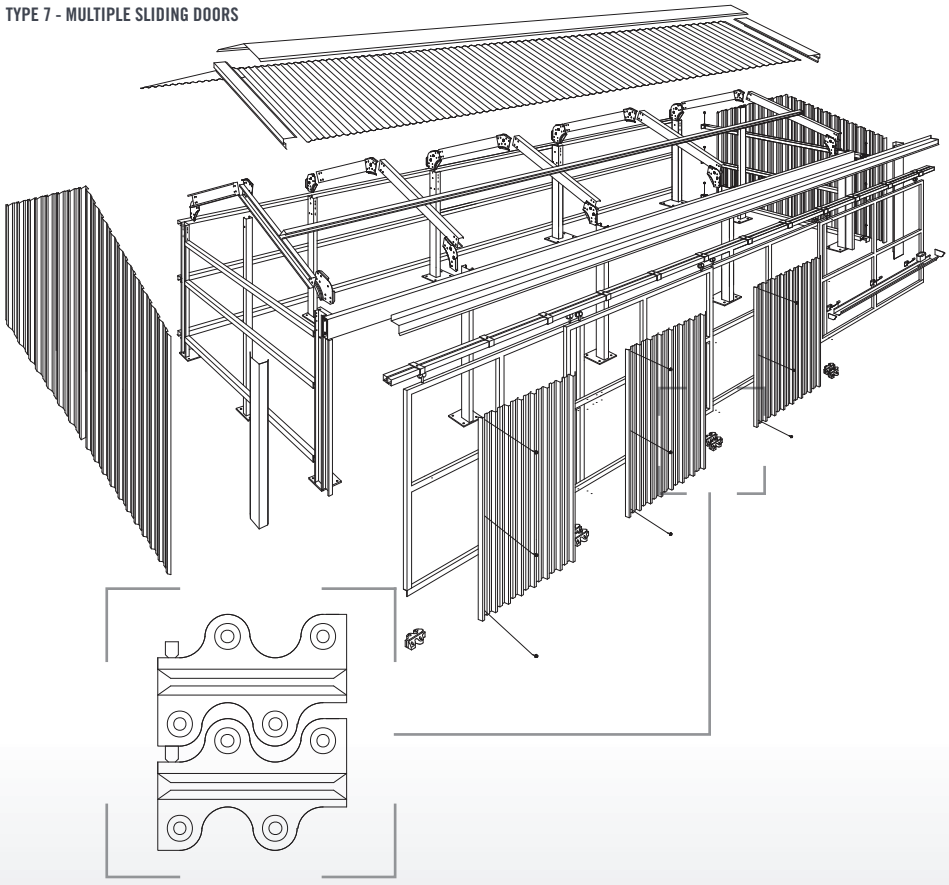


FIGURE 86

# GLASS SLIDING DOOR INSTALLATION

## FRAMEWORK - GABLE END

If installing a Glass Sliding Door in the Gable End, the framework installation process is the same as for a Gable End Roller Door, see Page 21. Glass Sliding Doors in the Gable End will always be supplied with Internal Columns.

## FRAMEWORK - GUTTER SIDE

It is recommended that the framework be assembled while building the wall panels on the ground, see Page 13. However, the door itself should be installed once all framework is assembled and upright.

Fix the structural header beam between the Portal Columns using supplied General Purpose Brackets with two M12x30 flanged purlin bolts per leg, bolting either to the web of the column directly, or through the open web, see Figure 87. Ensure the open web of the header beam faces down to avoid any interference between the sliding door and bolts.

Alternatively, angle connectors with clamp plates may be supplied in place of general purpose brackets, see Figure 88 for connection details.

Measure out the gap between the columns, allowing up to 10mm extra either side for the door opening. Fix the web of the sliding door columns directly to the flange of the header beam with two M12x30 flanged purlin bolts. Secure the header girt to each sliding door column using two header beam brackets with two plain 12x20 self drilling screws in each flange of the bracket.

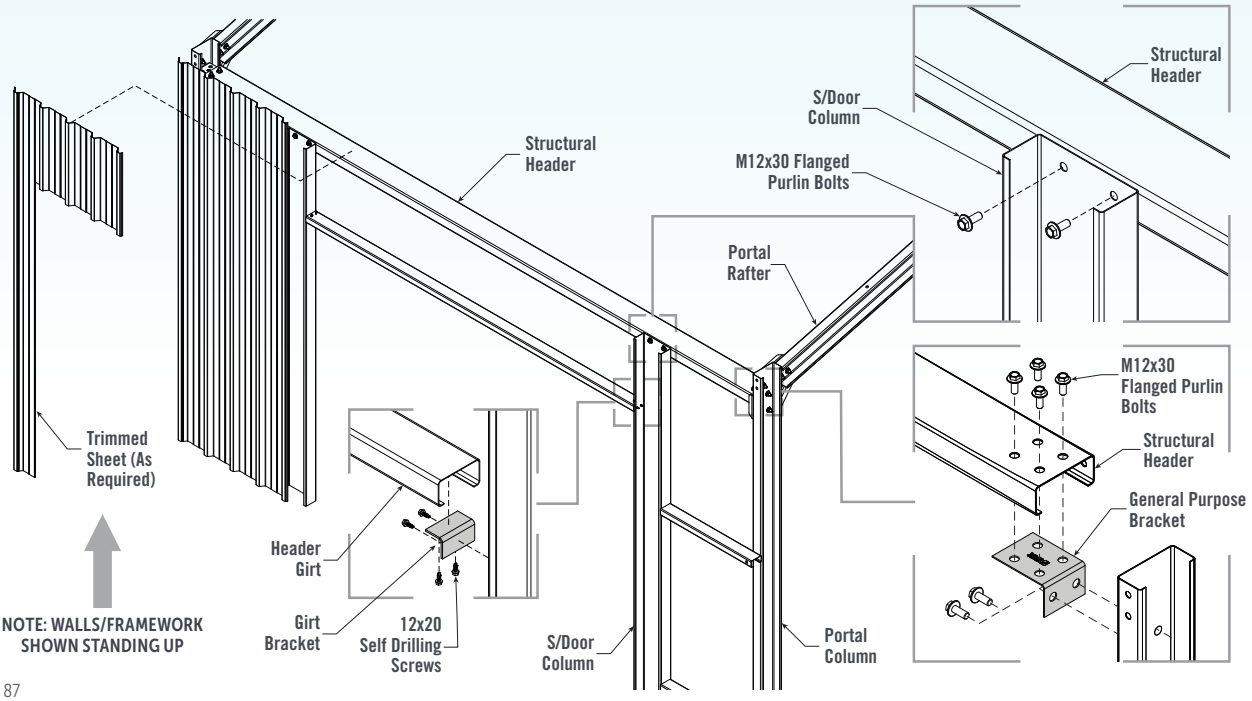



FIGURE 87

## DOOR INSTALLATION

Fix the wall girts to the columns with girt brackets using two 12x20 self drilling screws per leg, see Figure 87.

The wall sheets either side of the opening will need to be trimmed as close to the column edge as possible. A header flashing is supplied to cap the bottom of the sheets sitting above the door, and roller door column wall flashings are supplied to cover the sides of the openings, see Figure 89.

Alternatively, the flange of the glass sliding door unit can be butted up directly against Superdek sheets on the sides, take care when positioning the door opening to ensure that the flanges are located on the Superdek pan.

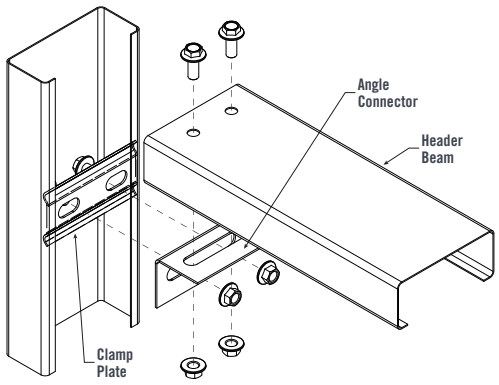



FIGURE 88

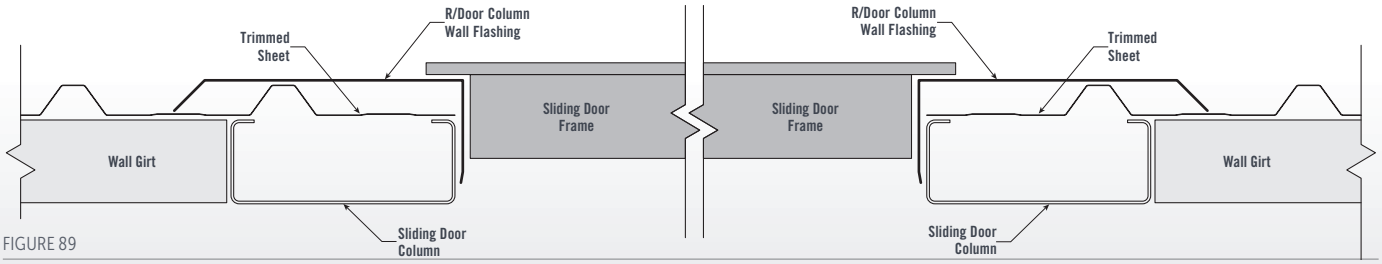



FIGURE 89

## WALL BRACING

Where fly bracing is required, a fly brace must be fixed around the centre portal frames (columns or rafters), see Figure 90.

Bracing will be located in wall and roof bays where required, directly behind wall girts or roof purlins and screwed to the portal frame columns or rafters. All side wall bracing is to be tensioned using bracing tensioners. In some cases, double Strap bracing may be required as shown, see Figure 91.

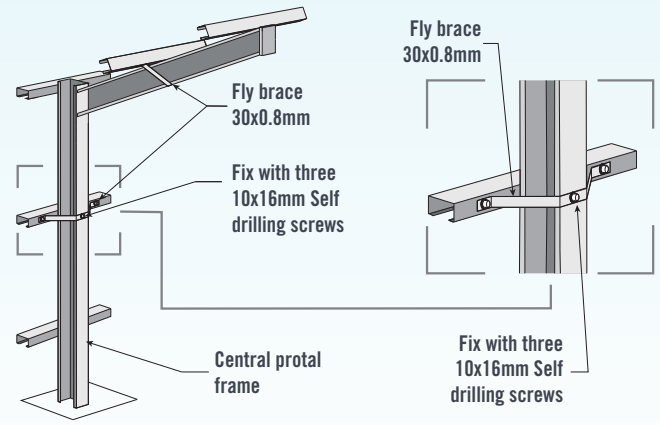



FIGURE 90

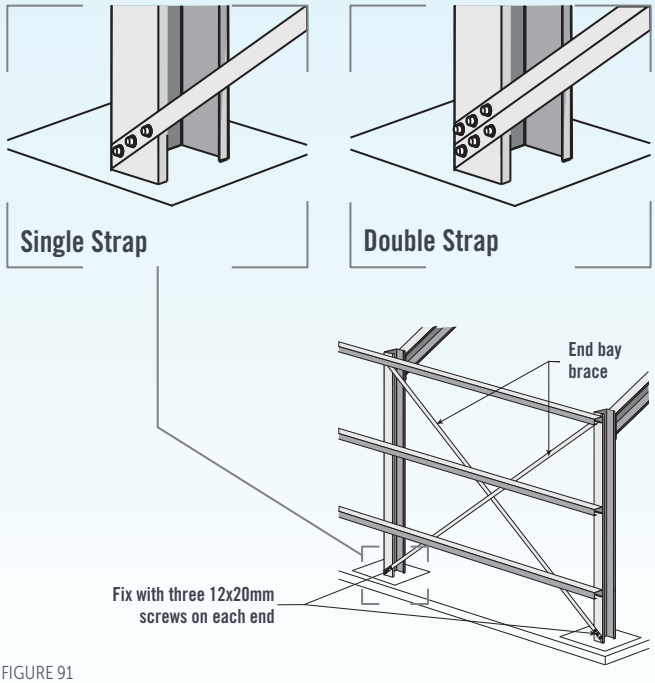



FIGURE 91

## REAR WALLS AND ROOF SHEET INSTALLATION

### END COLUMNS

If your Gable Roof Shed is 5.4m or wider, attach the rear end column (100mm or 150mm C-section) to the rear truss with one M12x30mm flanged purlin bolt & nut, see Figure 92.

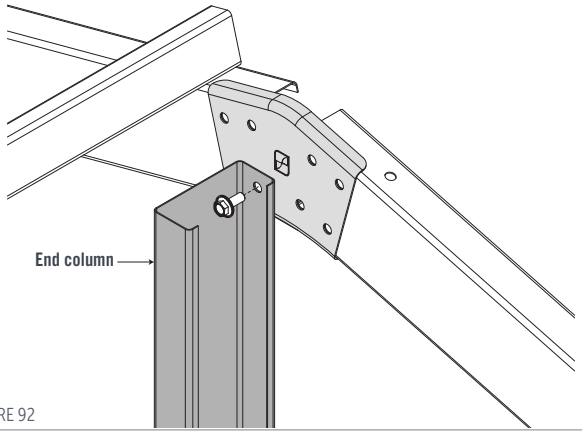



FIGURE 92

### REAR WALL GIRTS

Check the frame is square and level before fixing the rear wall girts.

Fix rear girt brackets (65x50x3mm) to both rear columns with two 10x16mm self drilling screws, see Figure 93.

Span wall girts between each bracket and fix with two 10x16mm self drilling screws through each flange, see Figure 93.

Note: if cladding with Hiland Tray, ensure that the wall girts are aligned flush with the outside of the shed frame if Hiland Tray cladding is used, see Figure 93.

Bolt the rear wall girts to the end column with one M12x30mm flanged purlin bolt & nut. The rear wall girts have been pre-punched at the end column/girt intersection.

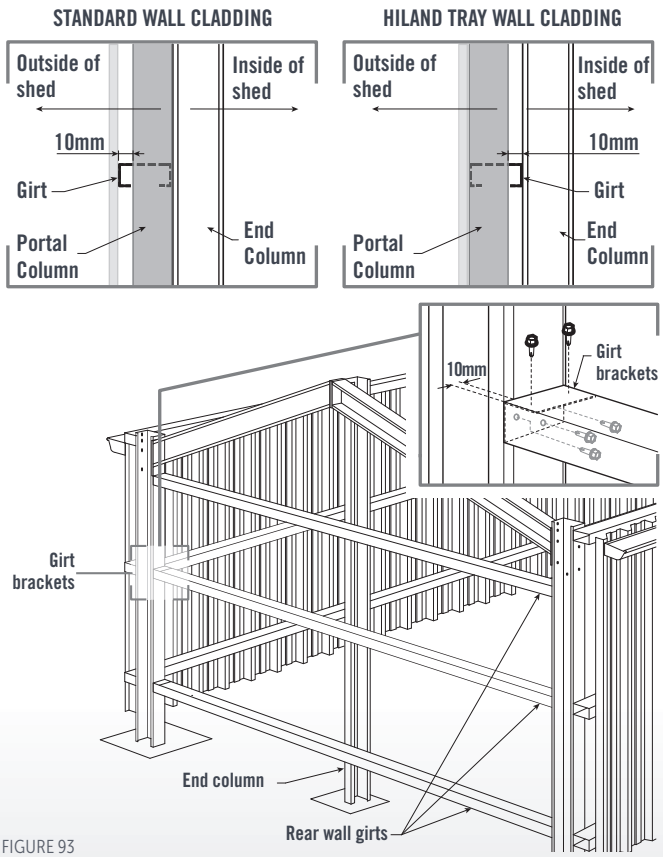



FIGURE 93

## PURLINS

Ensure the Gable Roof Shed is square. Position the roof purlins across the rafters, match the pre-punched holes (on standard Gable Roof Sheds) and bolt into position.

Where wall girts or purlins are to be joined, a girt connector is required.

The connection of wall girts shall only occur over portal or end column/columns, and the joining of purlins only over rafters.

Join the joining plate to the girts with two M12x30mm flanged purlin bolt & nuts. Leave the centre hole free to join to the centre portal frame with one M12x30mm flanged purlin bolt & nut, see Figure 94.

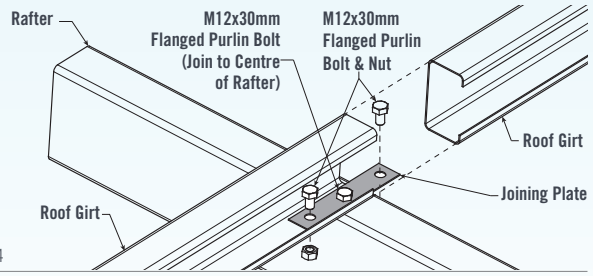



FIGURE 94

## GABLE WALL SHEETS

Before fixing the gable end wall sheets, locate the raking flashing so it sits on the edge of each purlin, following the roof line. Screw the raking flashing to each purlin with one 10x16mm self drilling screw.

Pan fix the gable wall sheets to the raking angle and frame with 10x16mm self drilling screws, see Figure 95.

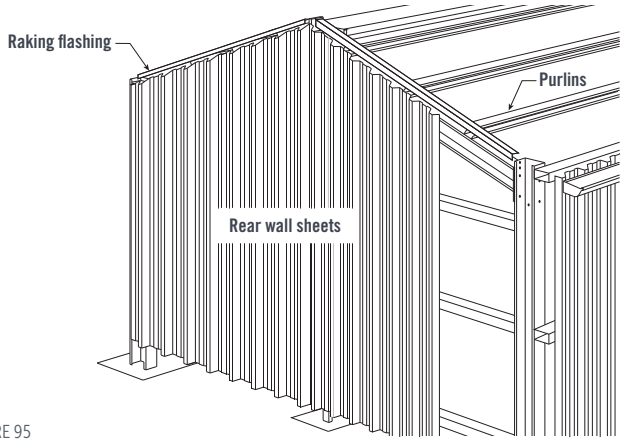



FIGURE 95

## ROOF SHEETS

Fix the roof sheets, starting from one end of the Gable Roof Shed. Sheets should be laid into the prevailing wind.

Note: for roof pitches greater than 15°, an additional eave purlin capping flashing will be required, see Figure 96 for installation details.

Crest fix the sheets with 12x35mm self drilling screws or M6x50 timber/steel screws with neoprene washers. Use five screws per sheet at each end support, and three screws per sheet at each internal support.

Ensure the first sheet is square with the frame and that the roof sheets overhang into the gutter by approximately 50mm.

Turn the valley flute of every corrugated roof sheet upwards, see Figure 97. This will aid in water proofing the Gable Roof Shed.

If it is necessary to walk over roof sheets, ensure that you walk over the purlins to avoid any damage. Wear flat, rubber soled shoes and walk flat footed, spreading your weight over as many corrugations as possible.

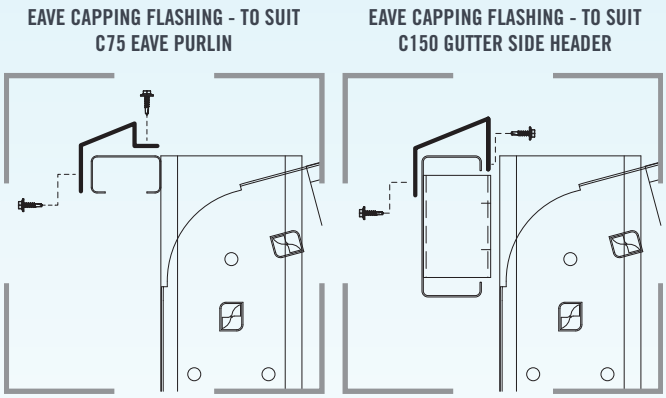



FIGURE 96

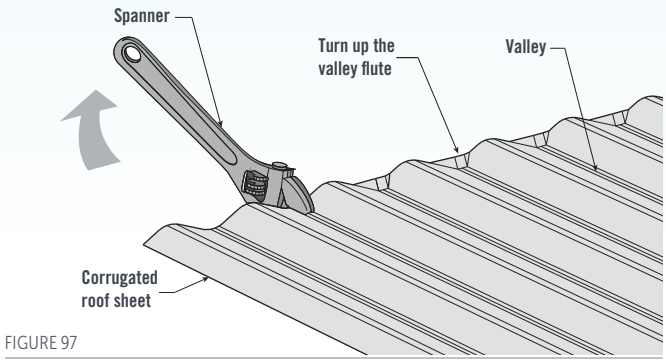



FIGURE 97

## COOLDEK ROOF SHEETS

There are two different Cooldek Sheet profiles available: Cooldek Classic and Cooldek CGI, see Figure 98. The installation process is the same for both types of Cooldek sheet.

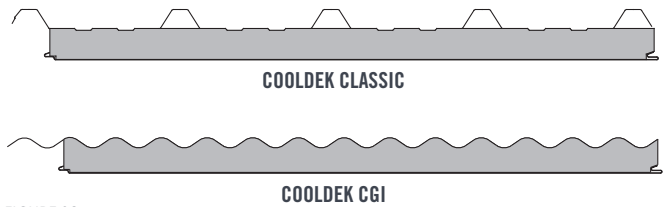



FIGURE 98

Note, Cooldek sheets are supplied with the top sheet 60mm longer than the insulating foam core and under sheet to allow for the cutback flashing and gutter to be attached. Ensure this end of the sheet is installed at the Eaves of the shed.

On one side of the shed, lay the Cooldek sheets one at a time, starting from one end of the Gable Roof Shed. Note that the skin on the underside of the Cooldek sheet should extend 15mm beyond the edge of the Eave Purlin, see Figure 99. Once the first sheet is in position, lay the next sheet over the previous sheet's side lap and ensure that the slip joint of the two sheets has engaged, see Figure 100.

## COOLDEK ROOF SHEETS

Cooldek CGI sheets should be fixed at every second crest with 14x110 Screws, Cooldek Classic should be fixed at every crest with 14x125 screws. Use cyclonic washer plates and neoprene washer in all crest fixings, see Figure 101.

Once one side of the shed has all sheets installed, rivet the Cooldek receiving channels together and insert the BIP foam into the channels. Slot the receiving channel assembly over the ridge of the installed sheets, see Figure 99.

Install the Cooldek sheets on the other side of the roof, repeating the same process installing of them one by one, and pressing them into the receiving channel as you go. Ensure sheets are pressed firmly against the BIP foam.

Once all sheets are fixed, install the Cooldek Cutback flashing on either side of the shed, riveting to the underside of the Cooldek sheet as shown in Figure 99. Fix the ridge cap with 10x16 screws through the Cooldek receiving channel.

Note: for Gable Roof Sheds with box gutters, the cutback flashing may need to be installed to the box gutter before installing Cooldek sheets.

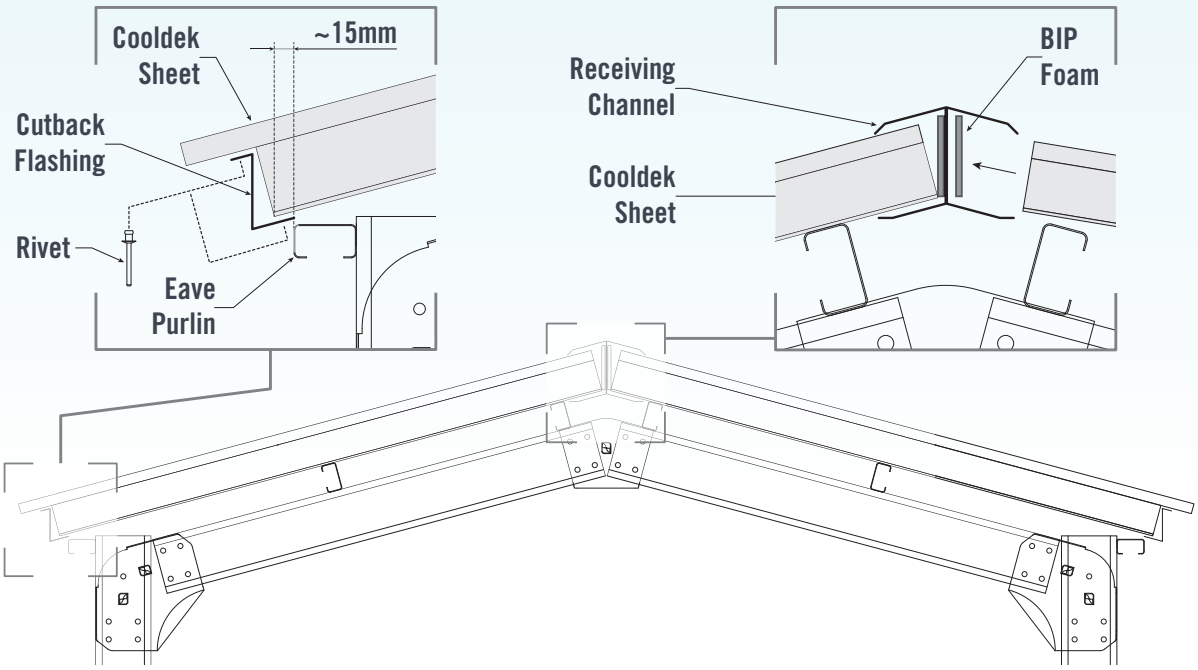



FIGURE 99

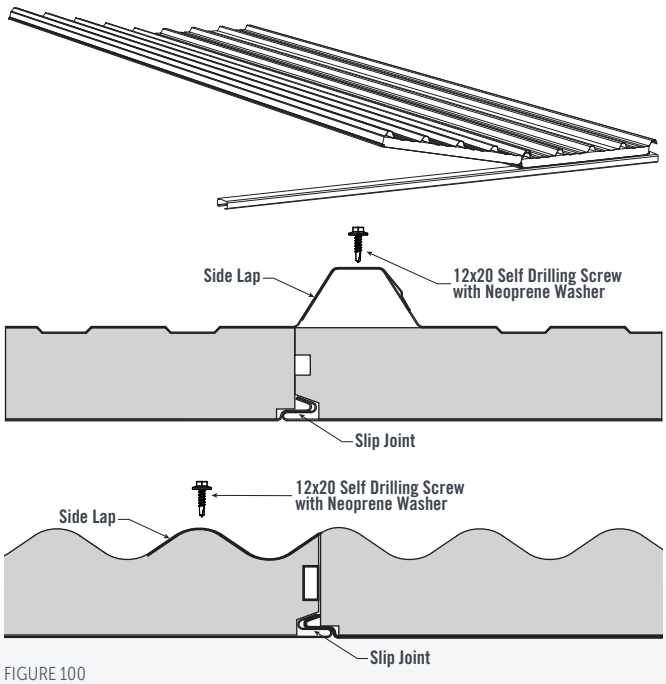



FIGURE 100

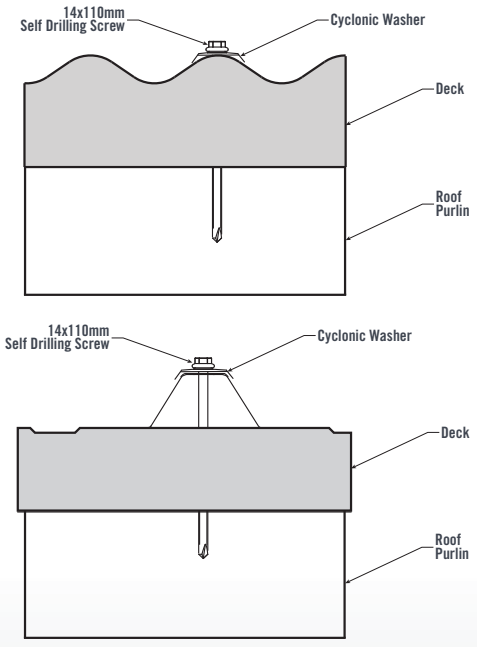



FIGURE 101

# HILAND TRAY WALLS AND ROOF SHEET INSTALLATION

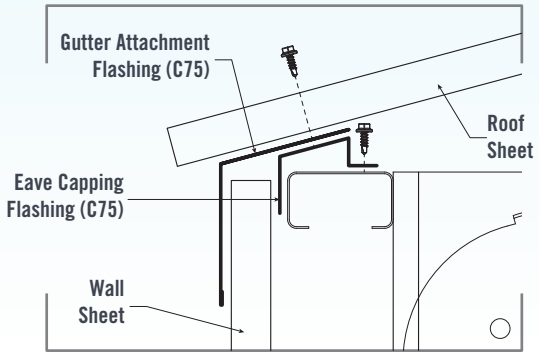
Note: If installing Hiland Tray cladding on your Gable Roof Shed, ensure all framework is constructed before beginning cladding.

## HILAND TRAY EAVE PURLIN CAPPING FLASHINGS

If Installing Hiland Tray on the roof, additional Purlin Capping Flashings will be required on the eave purlins to ensure a flat mounting surface for the roof sheets. Screw fix the capping flashing to eave purlin before bolting the eave purlin to the portal column flange. Ensure you position the gutter attachment flashing before securing the roof sheets in position, see Figure 102.

Note: the gutters should be installed before the roof sheets, refer to pages 17 & 18 for gutter installation details.

EAVE CAPPING (C75)




EAVE CAPPING (C150)

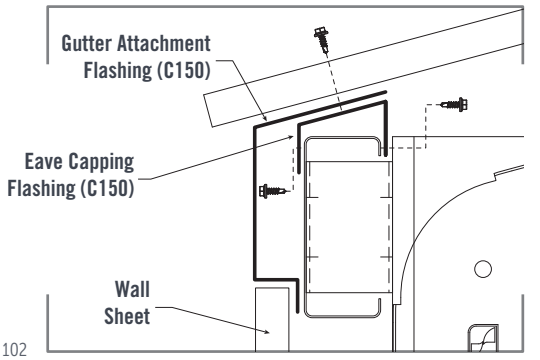



FIGURE 102

## HILAND TRAY END WALL GIRT ALIGNMENT

End Wall Girts should be aligned with the outside of shed framework when Hiland Tray is used, see Figure 103. If a Gable End Column is required, it should be mounted to the end wall girts with M12x30 flanged purlin bolts. Washers will be required to pack the gap between the gable end column and portal rafter.

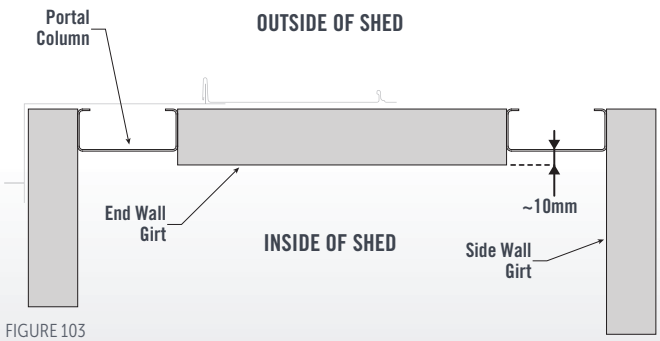



FIGURE 103

## RAKING CHANNEL AND CORNER FLASHINGS

On the gable ends, install raking channel flashings on top of the roof purlins and to the underside of the rafters - see Figure 104 for raking channel installation details.

SECTION VIEW - RAKING CHANNEL AND BARGE CAP

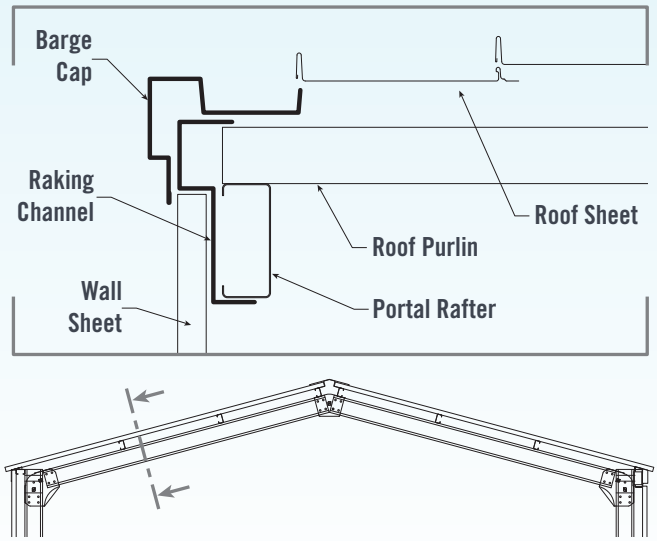
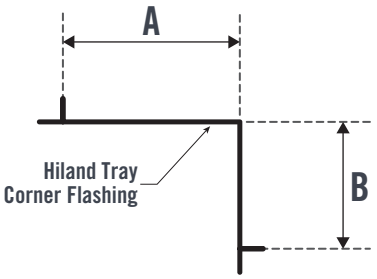



FIGURE 104

Install the corner flashings, noting the two faces of the flashing will have varying lengths depending on the size of the shed. It is critical that these are aligned correctly - refer to the elevations supplied with your Gable Roof Shed detailing the correct orientation and positioning of corner flashings and Hiland Tray sheets, see Figure 105.



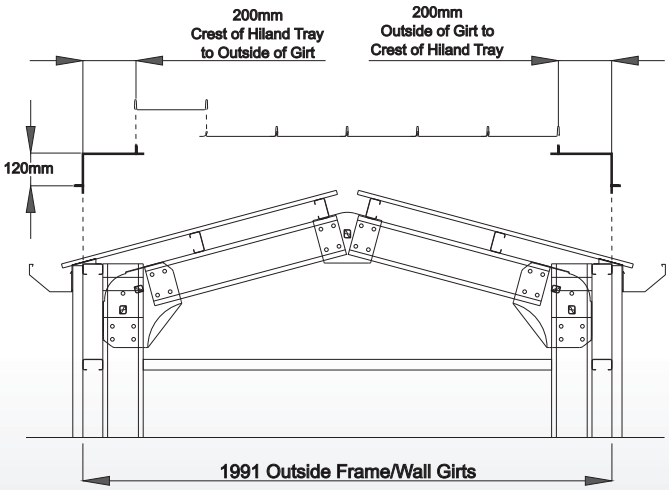




FIGURE 105

## WALL SHEET INSTALLATION

The sheet installation process is the same for both Gable Ends and Gutter Sides.

With the corner flashings installed, you can now begin to lay Hiland Tray sheets in place. Starting at one corner of the shed, position the overlap of the first sheet over the crest of the corner flashing, then fasten through the nailstrip side of the sheet with one Wafer Head screw at each girt. 10x16 Self Drilling Screws can be used to fix the corner sheets through the corner flashing, see Figure 106.

The next sheet overlap will clip onto the underlap of the first Hiland Tray sheet, again securing the nailstrip side with Wafer Head screws, see Figure 106. Repeat this process for remaining sheets, then cap the underlap of the final sheet and opposite corner flashing with a supplied "Double Overlap" sheet.

Note: always check the documentation you receive with your shed for specific installation instructions as they may differ in some scenarios. It is recommended that you measure out the crests of the Hiland Tray sheets on your shed before fastening them to ensure equal spacing of all sheets, and correct fitment of the final double overlap sheet.

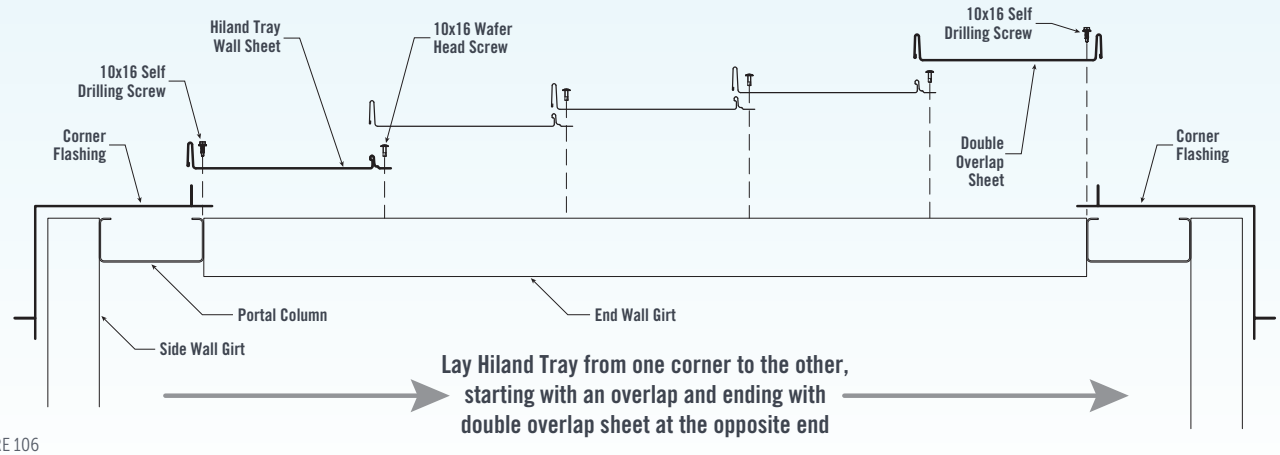



FIGURE 106

## OPENING AND DOOR CUTOUTS

Where there are openings or doors in the shed, the Hiland Tray sheets will need to be trimmed around any openings for doors or windows in the shed. Always cut along the pan, as close to the opening edge as possible. Flashings will be supplied to cap the cut sheets, and a header flashing will be supplied to cap the underside of sheets above an opening, see Figure 107.

## ROOF SHEET INSTALLATION

Before installing the roof sheets, fix the supplied Gutter Attachment flashing to the top of the Eave Capping flashing, see Figure 102.

The supplied Barge Caps should also be fixed at the Gable Ends through the top and front faces of the Raking Channel. When installed, the Barge Caps should cap the top of the wall sheets, see Figure 104. The barge caps must be installed before the roof sheets.

Fix the Ridge Support flashing on top of the highest roof purlins, see Figure 108. The ridge support may require trimming to avoid interference with the barge caps.

Once the flashings are installed, the roof sheets should be installed following the same process as the wall sheets, starting at the ends of the shed working to the centre. The overlap of the first sheet will cap over the crest of the Barge Cap, see Figure 104. Take care to ensure that all sheets and flashings are aligned correctly - when installed correctly, the crests of the roof sheets should align with the wall sheets.

The Ridge Cap can then be installed capping the roof sheets, fixing with 10x16 coloured screws through the Ridge Support Flashing, see Figure 108.

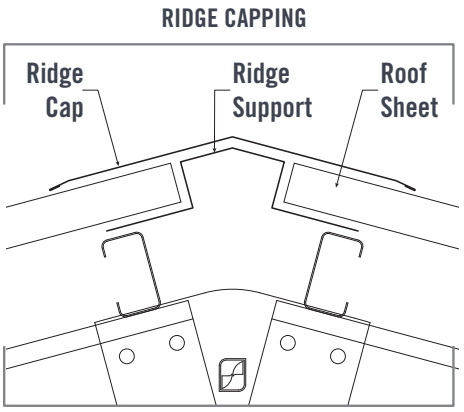



FIGURE 108

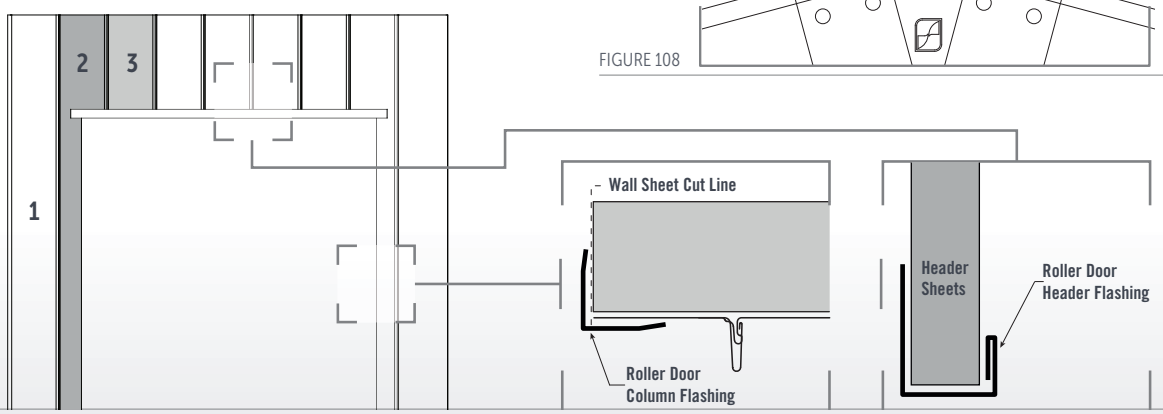



FIGURE 107

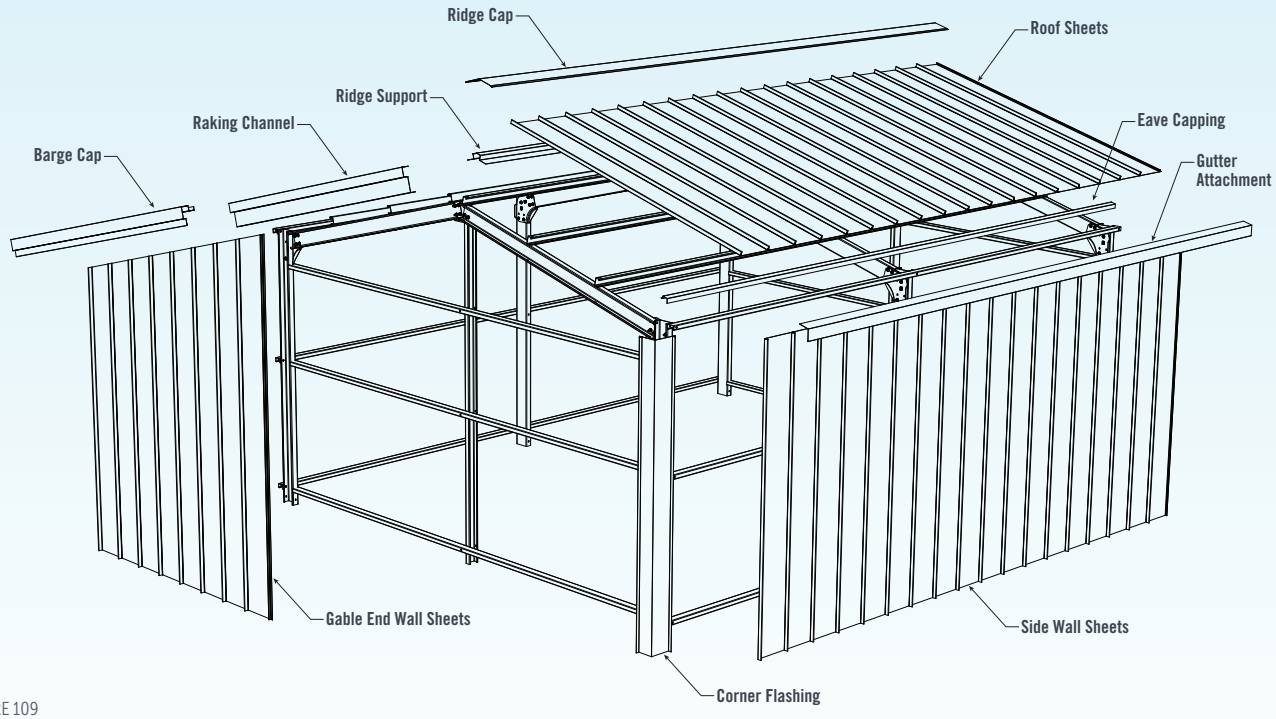



FIGURE 109

## WINDOWS

If installing a window, please note that the louvred window requires one trimmed sheet and the sliding window requires two trimmed sheets (on sheds clad with Superdek).

During the process of fixing the wall sheets to the Gable Roof Shed frame, determine the location of the window. Fix the wall sheets prior to installing the window, see Page 18; Building the Frame. The sheet/sheets in the location of the window will need to be trimmed to accommodate the window, allowing for the base of the window to be supported by and fixed into a wall girt.

Place the remaining sheets loosely into position and check the window will fit the opening. Ensure the wall sheets either side of the window are positioned tightly about the window frame so no gaps occur. Correct spacing of the wall sheets is best achieved by ensuring the top edge of the sheets are aligned parallel with the top edge of the top wall girt. Place the pre-assembled window into the opening and check for squareness before continuing to lay the remaining sheets.

Install the window frame to the crest of the wall sheets using colour 10x16mm self drilling screws supplied. Ensure the screws are evenly spaced around the remaining frame, see Figure 110. Place a bead of silicone in each corner of the window to prevent water entry.

If Hiland Tray cladding is used, Roller Door flashings will be supplied to cap the edges of the trimmed sheets, see Figure 111.

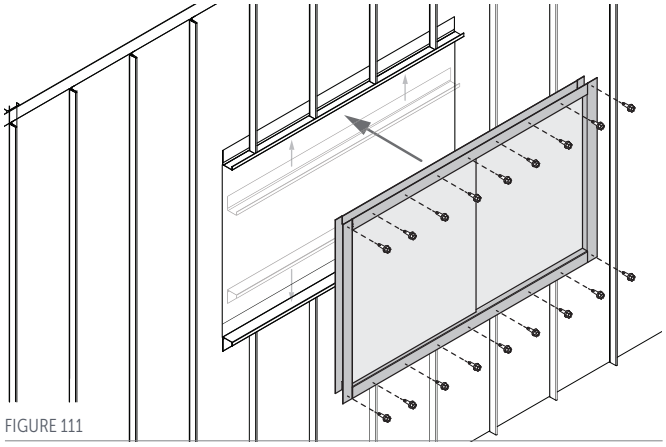


FIGURE 111

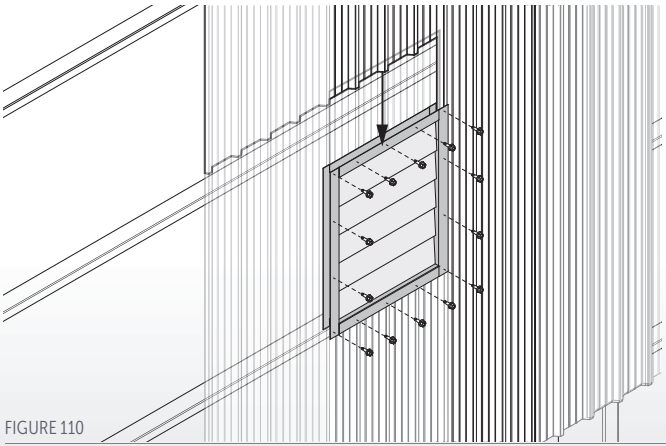
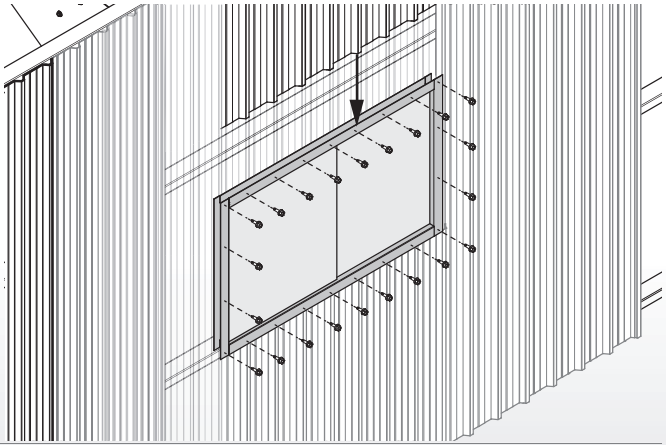


FIGURE 110



# FLASHINGS

## STANDARD FLASHINGS

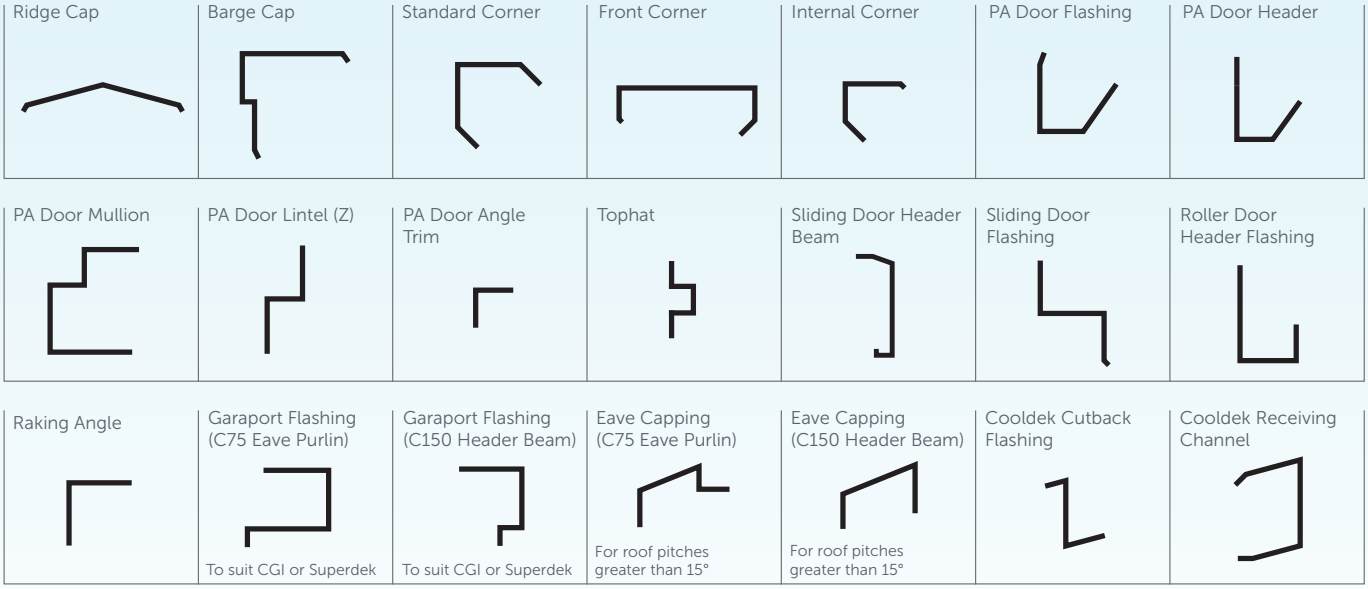



FIGURE 112

### CORNER FLASHING, RIDGE CAP AND BARGE CAP INSTALLATION

Screw the front and rear corner flashings at 600mm centres with 10x16mm self drilling screws. Corner flashings will require notching in line with the rafter pitch.

Refer to Figures 112, 113 and 114 for the flashing details.

Fix the front and rear barge capping to the roof sheets. Lap the barges at the ridge line and trim the outside piece to a vertical edge for a neat appearance.

Similarly, fix the ridge capping to the roof sheets with 12x35mm self drilling screws or M6x50 timber/steel screws at 300mm centres.

### GABLE GABLE ROOF SHED WITH SLIDING DOORS

1. Ridge cap
2. Barge cap
3. Front Corner
4. Standard Corner
5. Filler Column Corner
6. Sliding Door Flashing

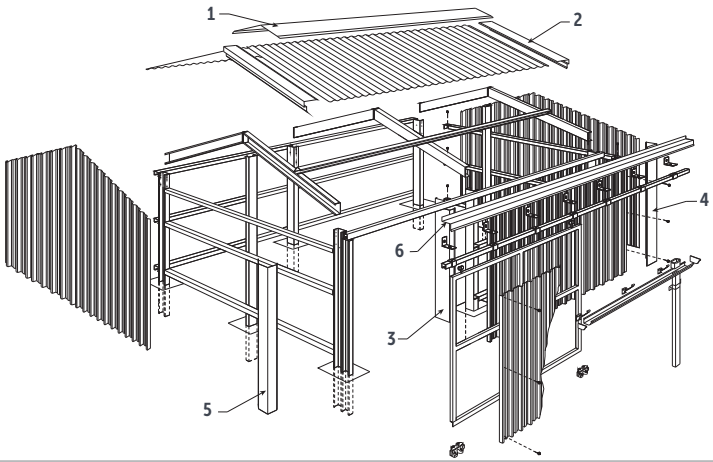



FIGURE 113

### GABLE GABLE ROOF SHED WITH ROLLER DOORS

7. Ridge cap
8. Barge cap
9. Centre Column Cover
10. PA Back Corner
11. PA Door Flashing
12. PA Door Mullion
13. PA Door Lintel (Z)
14. Roller Door Header Flashing

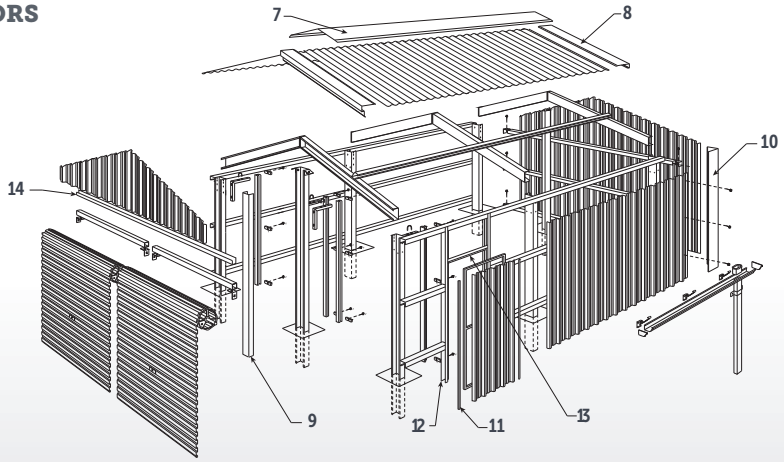



FIGURE 114

## HILAND TRAY FLASHINGS

Refer to Page 43 for Hiland Tray installation details. Hiland Tray Barge Cap, Raking Channel, Corners, Ridge Support, Eave Capping and Garaport Flashings should be installed in conjunction with Hiland Tray cladding.

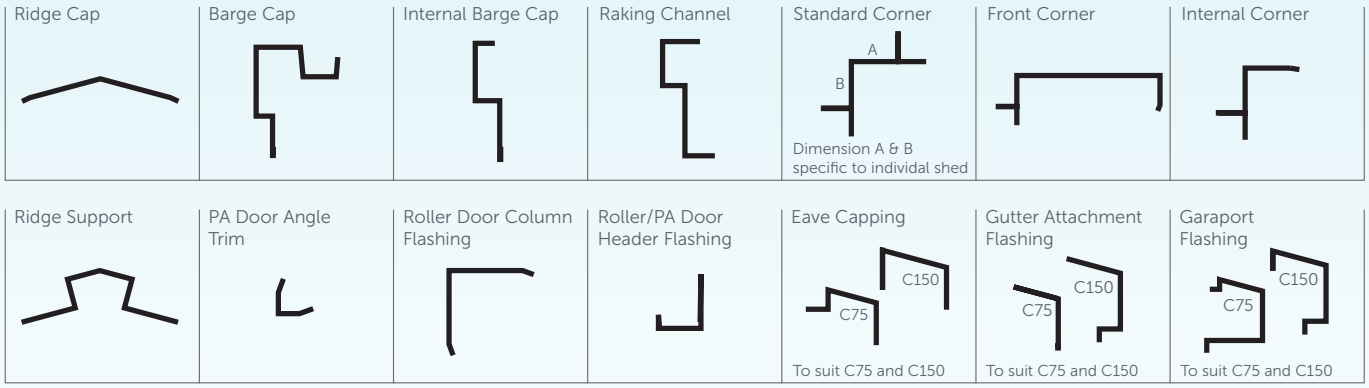
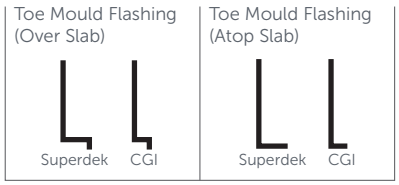



FIGURE 115

## TOE MOULD FLASHINGS

Toe Mould flashings can be supplied to seal any gaps between the base of the wall sheets and the slab. There are two different types offered - one caps over the edge of the slab, the other sits atop the slab. Both fix through the lowest wall girt.



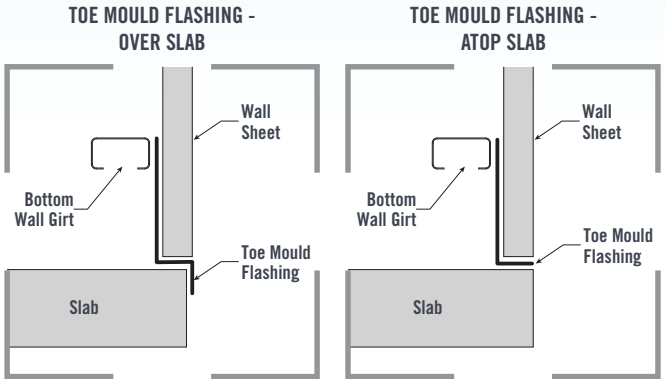




FIGURE 116

# GARAPORTS AND FREESTANDING GARAPORTS

## GARAPORT FLASHINGS

For Gable Roof Sheds with open walls or Garaports, or for Freestanding Garaports, additional flashings are required to support the gutters. The flashing supplied will depend on the wall cladding type and eave purlin size, see Figure 117 for different flashing types and how they fix to the shed.

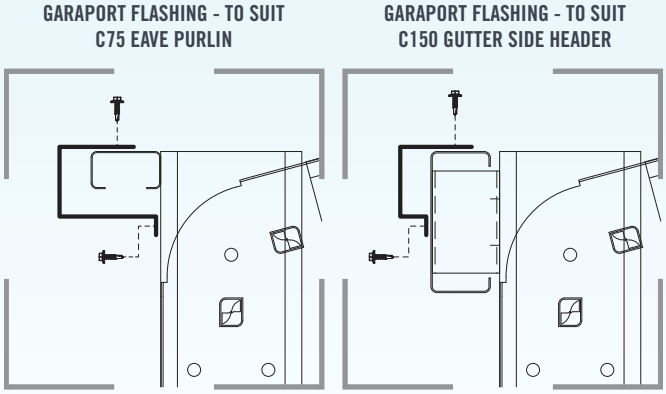



FIGURE 117

See Figure 118 - for sheds with partially open side walls, the Garaport flashing will only run the length of bays without wall sheets. For freestanding Garaports, the Garaport flashing will run the full length of the shed.

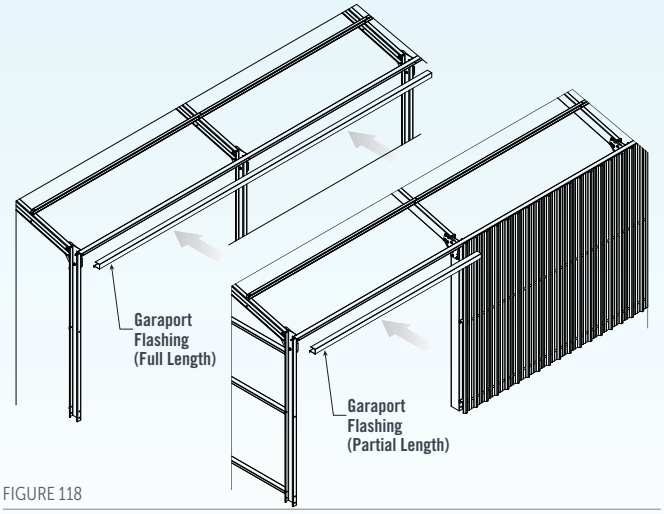
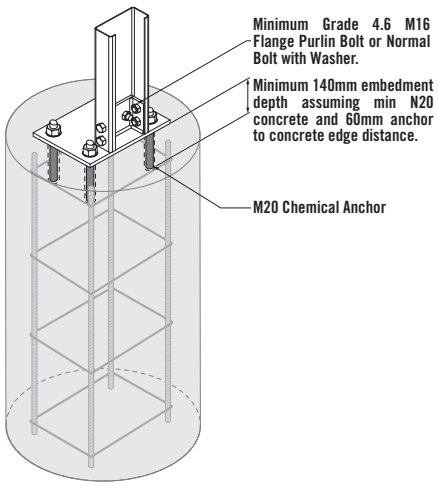


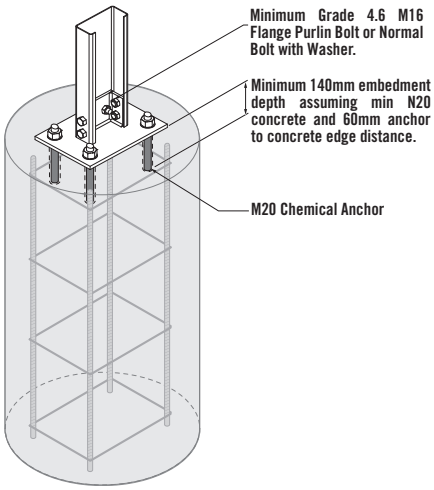

FIGURE 118

## FOOTINGS

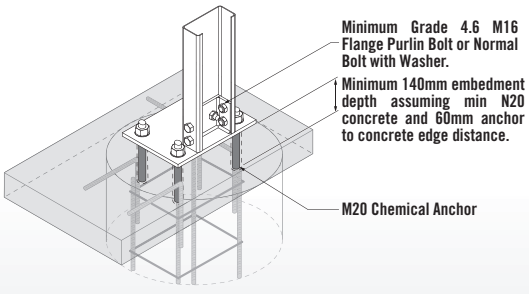
For freestanding Garaports pinned onto concrete, spigot footing plates are required in place of stirrups, see Figure 119. Refer to Stratco 15° Gable Roof Shed Span Tables (Book A) for more information regarding slab requirements.



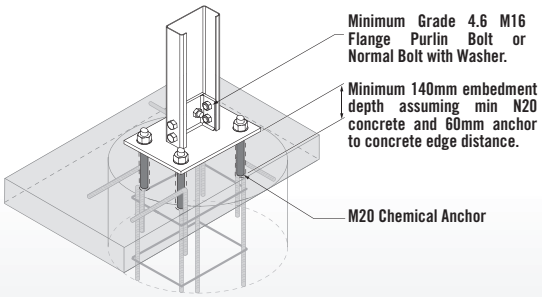

END COLUMN WITHOUT SLAB




INTERNAL COLUMN WITHOUT SLAB




END COLUMN WITH SLAB




INTERNAL COLUMN WITH SLAB

FIGURE 119

## BOX GUTTERS

Drill a 14mm hole through the centre of each column 100mm down from the top of the portal column, see Figure 120. Fix the lowered top wall girt to the portal columns with M12x30mm flanged purlin bolts. This girt will support the base of the box gutter.

Drill a 14mm hole in each rafter approximately 23mm in from the end. Bolt the additional purlin to the rafters with M12x30mm flanged purlin bolts.

Depending on the preferred gable end for the downpipe, cut the hole for the downpipe outlet in one of the box gutter stop ends before fixing it to the box gutter using rivets and seal with silicone, see Figure 121.

Slide the box gutter into position onto the lowered top wall girt, ensuring the front of the box gutter caps the wall sheet, see Figure 120. Fix the box gutter to the wall sheets with 10x16 self drilling screws, at the same spacing as the wall sheet to girt fixings.

Note: The Superdek® wall sheets for the box gutter side wall are 47mm longer than standard.

Use the box gutter stop end with outlet hole as a template to mark and cut out a corresponding section of the gable wall sheet, see Figure 122.

Rivet the outlet into position and seal with silicone, see Figure 123.

The corner flashing will need to be notched to allow for the downpipe outlet. Fix the 90˚ downpipe elbow to the outlet with rivets and continue to assemble and install the downpipe.

Install the roof sheets, see Page 40. Ensure the roof sheets are fixed to the additional purlin.

Note: The roof sheets supplied for the box gutter side of the Gable Roof Shed are 127mm shorter than the roof sheets on the opposite side of the Gable Roof Shed.

For more information please refer to the box gutter installation guide available on the Stratco website.

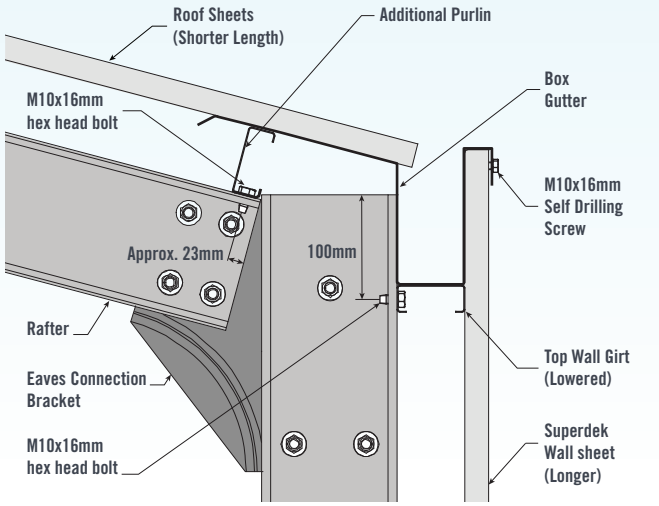



FIGURE 120

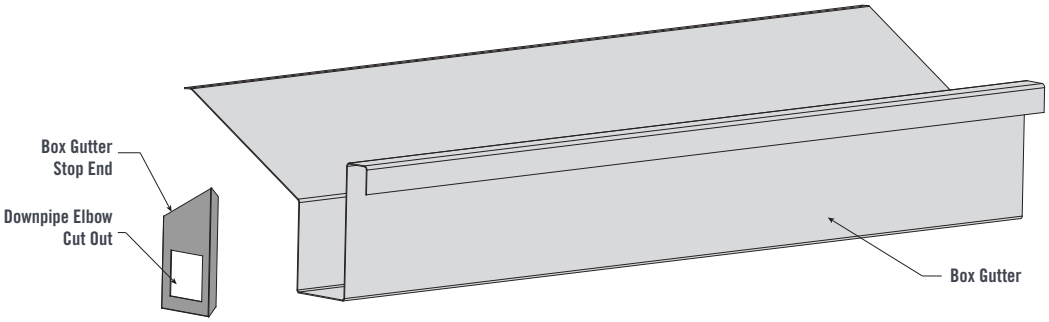



FIGURE 121

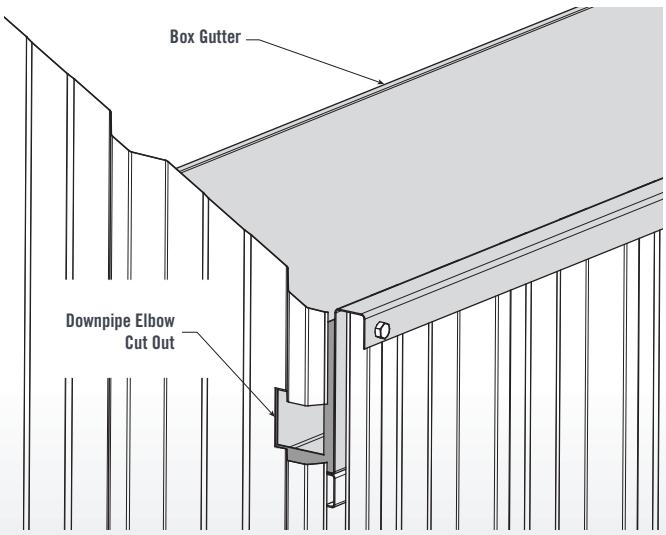



FIGURE 122

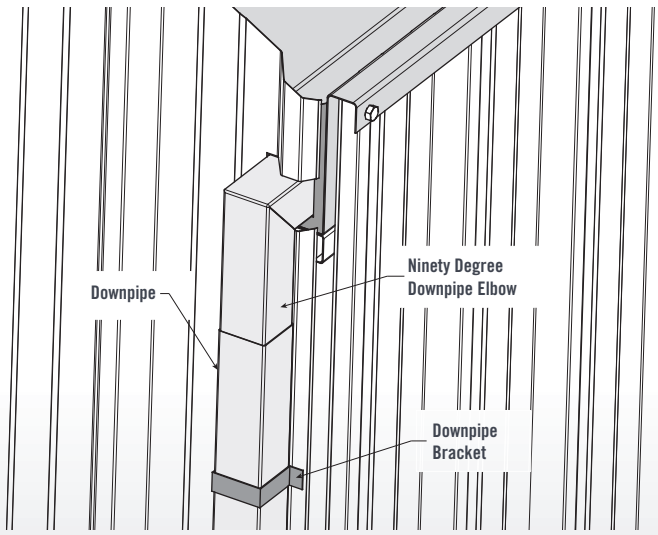



FIGURE 123

## DOWNPIPES

Slide the small end of one downpipe into the big end of the other, see Figure 124. Rivet the downpipe at the back, then use a hacksaw to cut to the desired length.

Fix the downpipe to the existing outlet using rivets, then use downpipe straps to fix the downpipe against the wall using 10x16mm self drilling screws, see Figure 124.

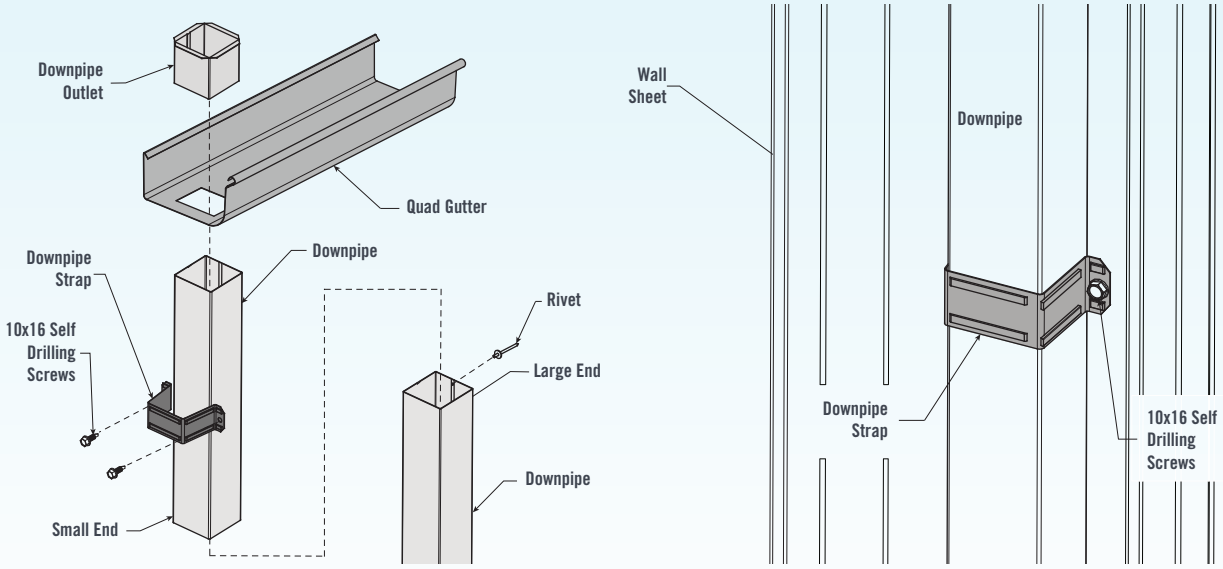



FIGURE 124

## MAINTENANCE

Your Stratco Gable Roof Shed will maintain its good looks for even longer with a simple wash and wipe down with a soft broom. Stratco Gable Roof Sheds are produced from the highest quality materials and will provide many years of service if the important recommendations set out in the Stratco 'Selection, Use and Maintenance' brochure are followed.