LARGE GABLE SHED N3/C1 FRAME KIT

FOR WORKSHOP & UTILITY MODELS

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This instruction manual is to be used during the initial construction of the structure.

Where information conflicts with the original instruction manual, this document is to be referenced.

View of frame kit applied to 60303WK

This kit is applicable to the following sheds:

60303WK	3060UTK
52233WK	3052UTK
45302WK	3045UTK
45232WK	

The addition of this frame kit will increase the wind rating of the specified sheds to

Wind rating: N3/C1 as per AS4055-2012.
Suitable for specific cyclonic regions

WARNING: This shed must be anchored to a 100mm thick concrete slab with the concrete anchors supplied.
Failure to do so will result in the shed not having the structural integrity required to endure a severe storms or cyclonic event.

WARNING: Doors must remain closed with all padbolts properly secured during severe storms or cyclonic event.

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GENERAL INSTRUCTIONS

- Before commencing any assembly, read through these instructions in detail to gain a thorough understanding of assembly methods and associated details.
- Unpack the carton and carefully identify and check off all the parts against the parts described and illustrated on "COMPONENTS PACKING LIST" pages.
- Local authority approval must be obtained prior to construction of the shed. Once you have selected your site you will need to lodge a site plan to your local council.
- The bracing material supplied is 80 x 40 mm galvanised steel channel, similar to that used in steel house framing. Some channels are required to be cut to specific lengths using a hacksaw.

SITE PREPARATION

- The site for the shed must be level. An uneven surface may result in misalignment of parts.
- The shed shall be erected on top of a reinforced concrete slab and anchored down appropriately.
- **If using a rebated slab ensure that all frame uprights are trimmed 25mm.**

TOOLS REQUIRED

SAFETY NOTES

- Some parts may have sharp edges. It is advisable to wear gloves when handling these items and safety glasses if drilling holes. Sensible shoes are highly recommended.
- Do not erect your shed in windy conditions.
- It is highly recommended to erect the shed with two or more people.

RECOMMENDED

ABSCO SHEDS
So Tough. Too Easy.

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COMPONENT PACKING LIST

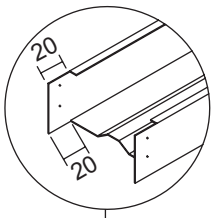
FRAME PACK							
QTY	COMPONENT DESCRIPTION	PART No.	CHK	QTY	COMPONENT DESCRIPTION	PART No.	CHK
4	C GABLE WALL BRACE	C2750		6	C VERTICAL DOOR BRACE	C1555	
18	C NON-GABLE WALL AND ROOF BRACE	C2100		9	K HORIZONTAL DOOR BRACE	K0640	
4	C PORTAL COLUMN	C1704		8	K UTILITY HORIZONTAL	K0285	
4	C PORTAL RAFTER	C1482		2	C UTILITY MULLION BRACE	C1785	

NOTE:
For 2.3m wide structures the following parts will need to be cut to length.
C1482 to 1106mm
C2750 to 2010mm

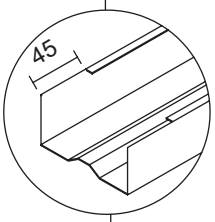
FRAME SECTION IDENTIFICATION GUIDE

The first letter of the part number is used to identify the notching type. EG. **K**2940, see below for reference list.
The following digits represent the overall length of the item.
EG. K**2940**
Part K2940 is a channel that is 2940mm long with a 20mm Tab notch at each end.

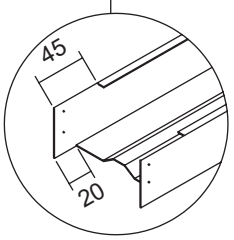
C Straight cut to both ends.
J 20mm Tab notch on one end only
K 20mm Tab notch on both ends
L 45mm Lip notch on one end only
M 45mm Lip notch on both ends
N 20mm Tab notch + 45mm Lip notch
P 20mm Tab notch + 45mm Lip notch on both ends
R One end: 20mm Tab notch + 45mm Lip notch
S SPECIAL NOTCHING, not noted above.



20mm Tab notch



45mm Lip notch



20mm Tab notch + 45mm Lip notch

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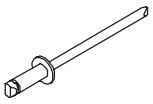
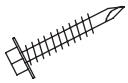
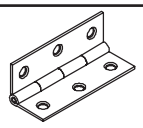
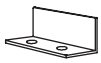
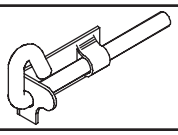
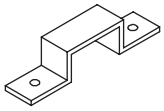
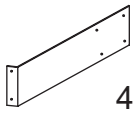
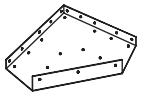
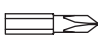
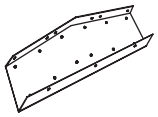
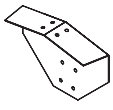
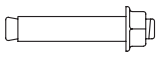
COMPONENT PACKING LIST

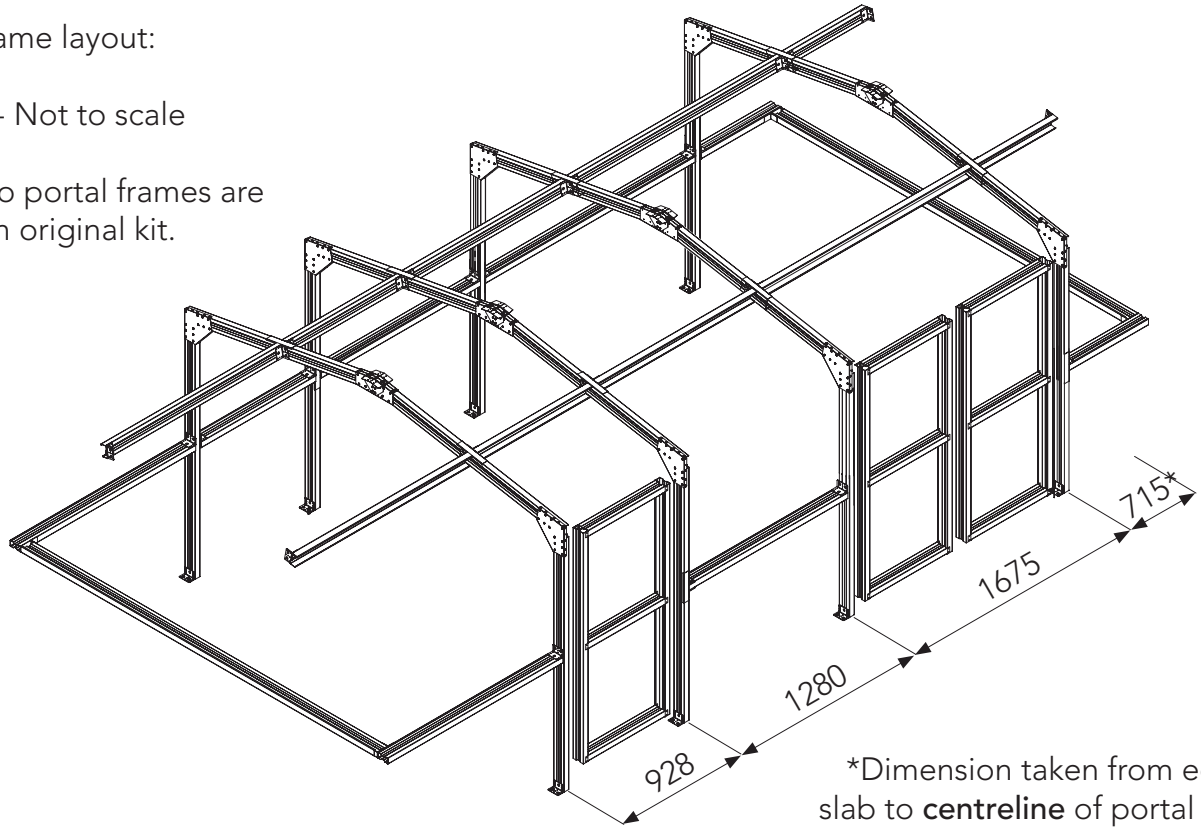
FITTINGS AND ACCESSORIES							
QTY	**COMPONENT DESCRIPTION**	**PART No.**	**CHK**	**QTY**	**COMPONENT DESCRIPTION**	**PART No.**	**CHK**
1	INSTRUCTION MANUAL	**IM**		**2**	 8G x 3/8" SELF TAPPING SCREW (220 PACK)	**FAST001**	
2	 10G x 5/8" WAFER TEK SCREW (300 PACK)	**FAST014**		**16**	 3/16" x 1/2" PAN HD BOLT	**FAST002**	
1	 3mm POP RIVET (50 PACK)	**FAST009**		**16**	 3/16" NYLOC NUT	**FAST003**	
3	 45mm HEX TEK SCREW (26 PACK)	**FAST019**		**3**	 HINGE 6 HOLE	**FAST012A**	
1	 DOUBLE DOOR ANCHOR BRACKET	**BKT12**		**10**	 PADBOLT	**FAST006**	
4	 CORNER BRACKET	**BKT10**		**4**	 PADBOLT HASP	**FAST007**	
38	 MULTIPURPOSE BRACKET (MPB)	**BKT17**		**8**	 DOOR PLATE 4 CO + 4 ZINC	**12A**	
4	 KNEE PLATE	**ZACO193**		**1**	 PHILLIPS HEAD DRIVER BIT	**FAST038**	
4	 APEX PLATE	**ZACO194**		**1**	 3MM DRILL BIT	**DRILL**	
4	 RIDGE CONNECTOR PLATE	**ZACO9A**		**15**	 M10 DYNABOLT	**FAST015**	
2	M10 DYNABOLT M10 NUT & BOLT BRACKET (12 PK)	**ANCHOR KIT**		**90**	 HEX HD TEK SCREW W/ NEO WASHER 10-16x16mm	**FAST033**	

WORKSHOP SHEDS - FRAMING OVERVIEW

- Positions of portal frames may differ from the original instruction manual.
- For ease of assembly ALL portal frames shall be erected during the initial construction of the structure.

4 portal frame layout:
60303WK
52233WK - Not to scale

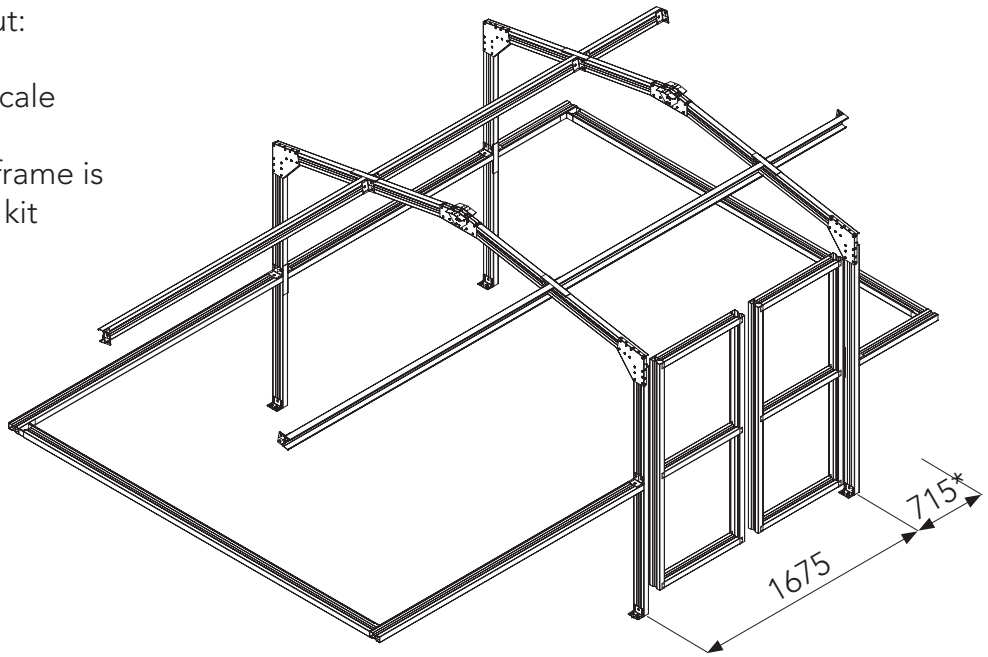
NOTE: Two portal frames are supplied in original kit.



*Dimension taken from edge of slab to **centreline** of portal frame. Slab size specified in original manual.

2 portal frame layout:
45302WK
45232WK - Not to scale

NOTE: One portal frame is supplied in original kit



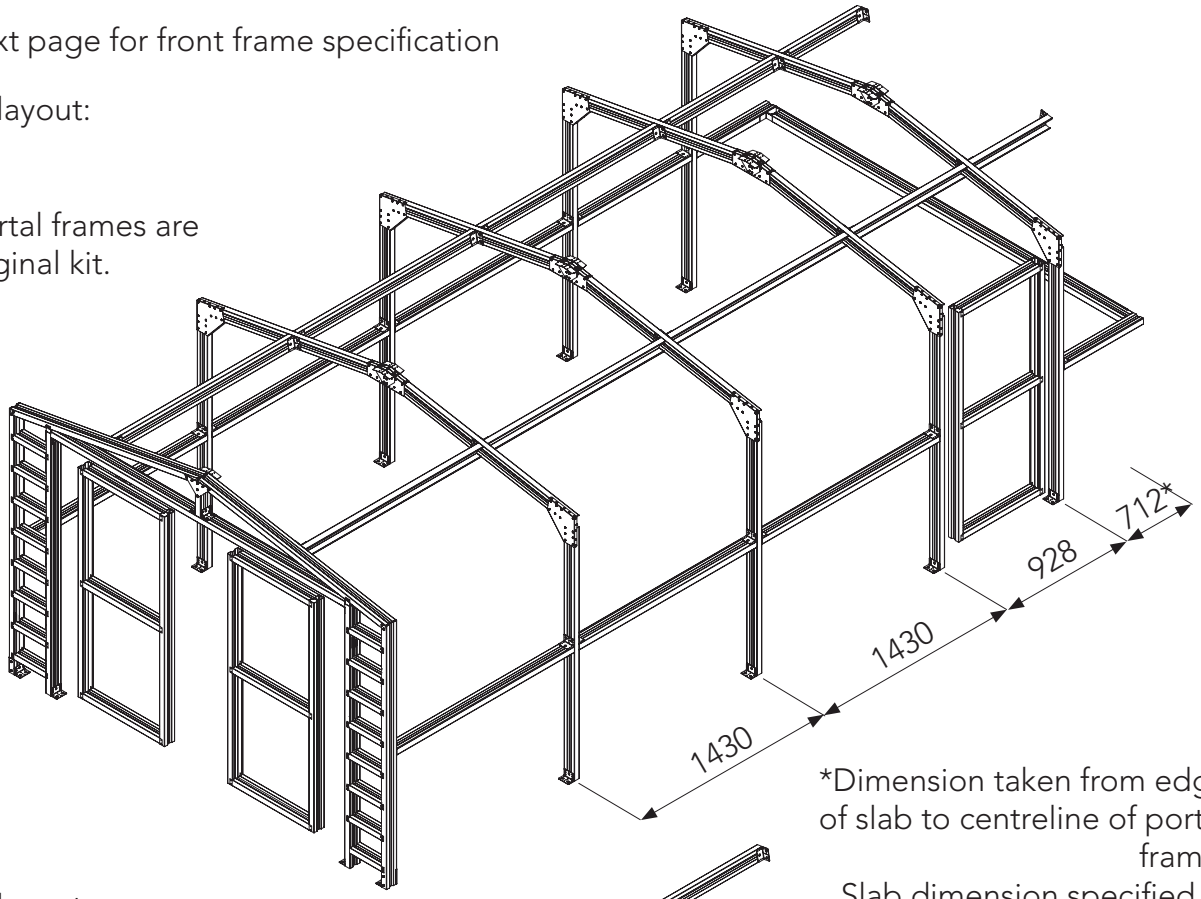
LARGE GABLE SHED
N3/C1 FRAME KIT
FOR WORKSHOP & UTILITY MODELS

UTILITY SHEDS - FRAMING OVERVIEW

- Positions of portal frames may differ from the original instruction manual.
- For ease of assembly front and portal frames shall be erected during initial construction of the structure.
- Refer to next page for front frame specification

4 portal frame layout:
3060UTK

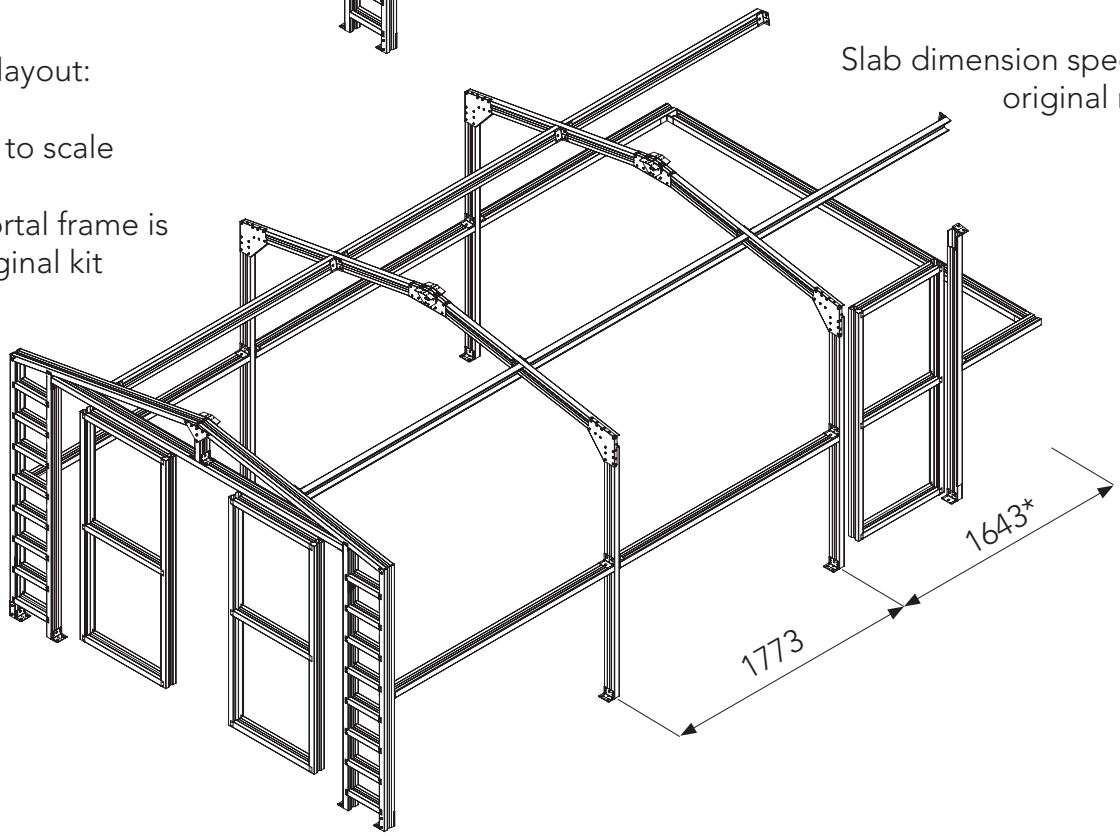
NOTE: Two portal frames are supplied in original kit.



*Dimension taken from edge of slab to centreline of portal frame.
Slab dimension specified in original manual.

2 portal frame layout:
3052UTK
3045UTK - Not to scale

NOTE: One portal frame is supplied in original kit



USING SELF DRILLING TEK SCREWS

Self drilling tek screws are an effective means of securing components without the need to pre-drill holes. By following these instructions you will be able to easily secure your frame kit components.

Self drilling tek screws require an electric or battery drill for installation, Do not attempt to fasten tek screws by hand.

If available make sure that the drill has the slow speed and high torque settings selected.

Fit the supplied driver bit into the chuck of the drill.

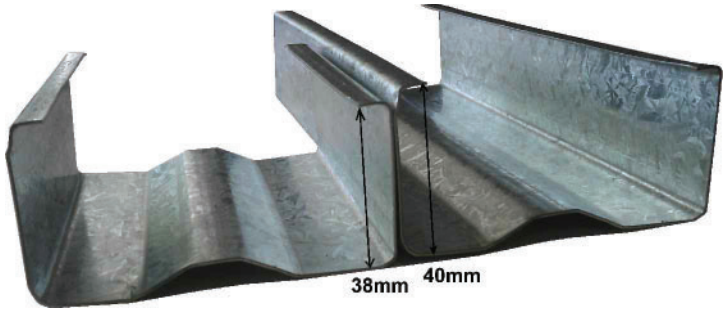
Place the tek screw onto the tip of the driver and place the tek screw into position using the weight of the drill to prevent it from moving.

Once in position apply a moderate amount of pressure to the drill

Start slowly, begin to drill the tek screw into the metal.

Once the tek screw has stabilised while drilling increase the speed until the tek screw threads 'bite' into the metal.

BOXING FRAME SECTIONS

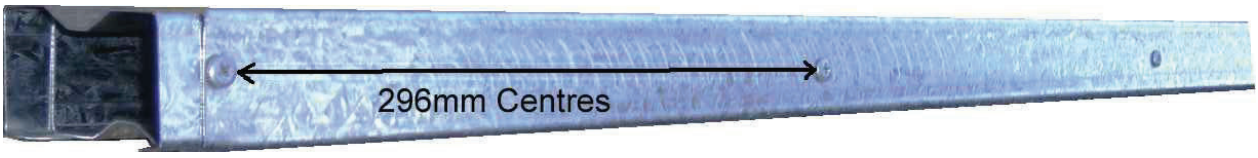


1. All frame sections have one side length of 38mm and another at 40mm.

2. Slide the 38mm side into the 40mm side as shown.

3. Slide opposing sides together so that each frame section fits neatly inside the other.

4. Apply firm pressure to each side of the boxed section to firmly lock it into position.



5. Fix with tek screws.
Use tek screws to fix the two sections and complete a boxed frame member as shown. Make sure that you alternate tek screw position on opposing sides of the boxed sections. Align tek screws 296mm apart. This is approximately 2 sheet corrugations in distance. If spaced correctly the screw heads will line up with corrugations of the sheets and will make for a flush finish against the wall or roof.

NOTE:
- Only the horizontal wall frame sections are to be boxed.
- Do not screw any boxed sections until they have been correctly sized as the specific step instructs.
- Roof section, door frames and upright door studs are singular pieces.
- Use self drilling tek screws for all assembly and installation of these sections.

LARGE GABLE SHED
N3/C1 FRAME KIT
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Applies to UTILITY SHEDS only

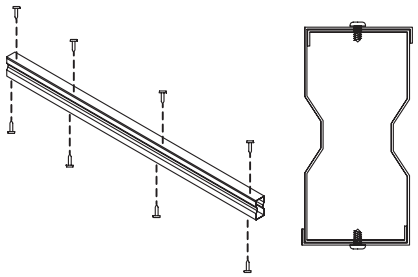
FRONT FRAME ASSEMBLY (N3/C1)

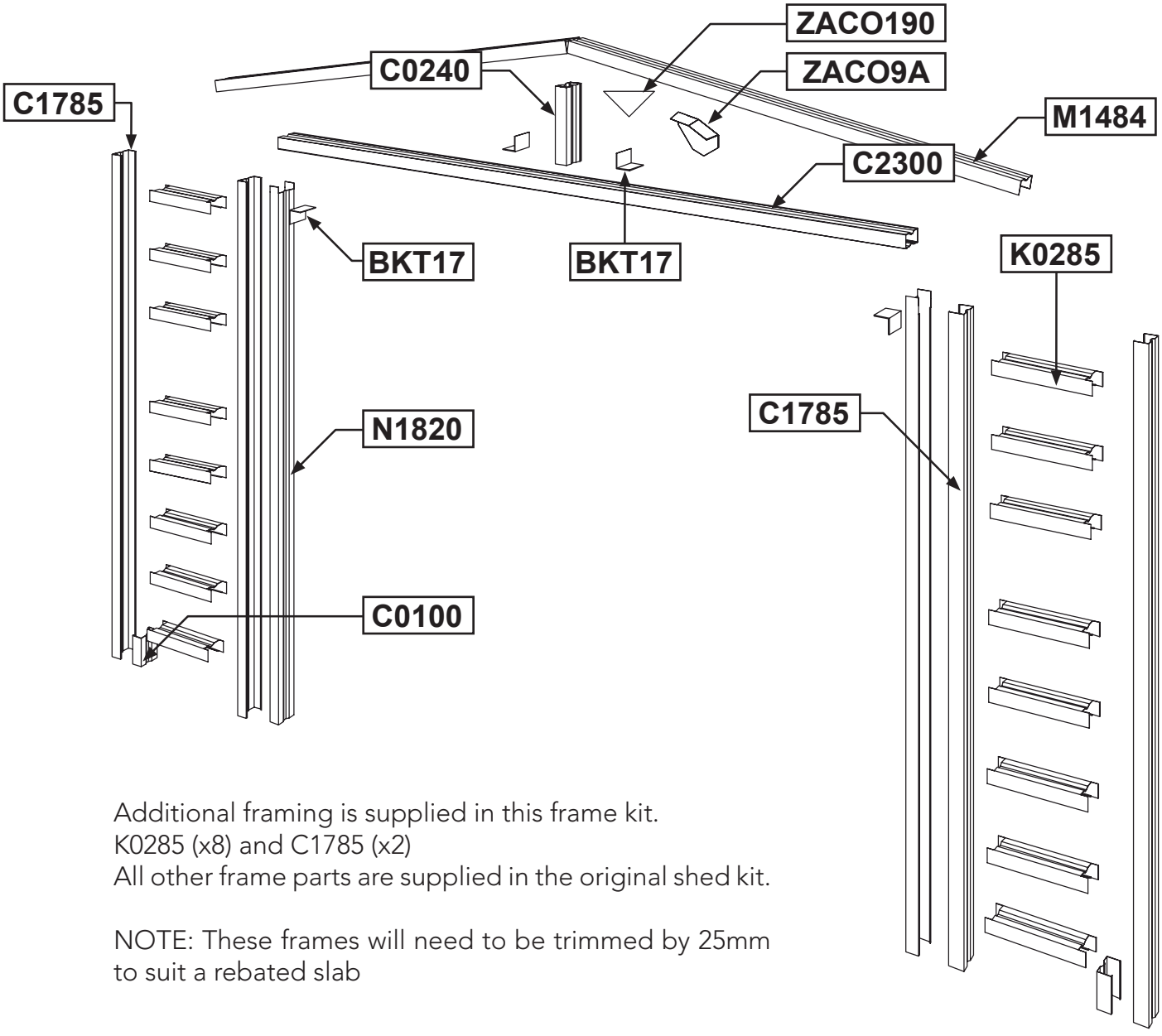
STEP 1 of 2

Box the following frame sections together and fix with tek screws.

- C2300 + C2300 (x1)
- C0240 + C0240 (x1)
- C1785 + N1820 (x2)

Refer to "BOXING FRAME SECTIONS" for further details





Additional framing is supplied in this frame kit.
K0285 (x8) and C1785 (x2)
All other frame parts are supplied in the original shed kit.

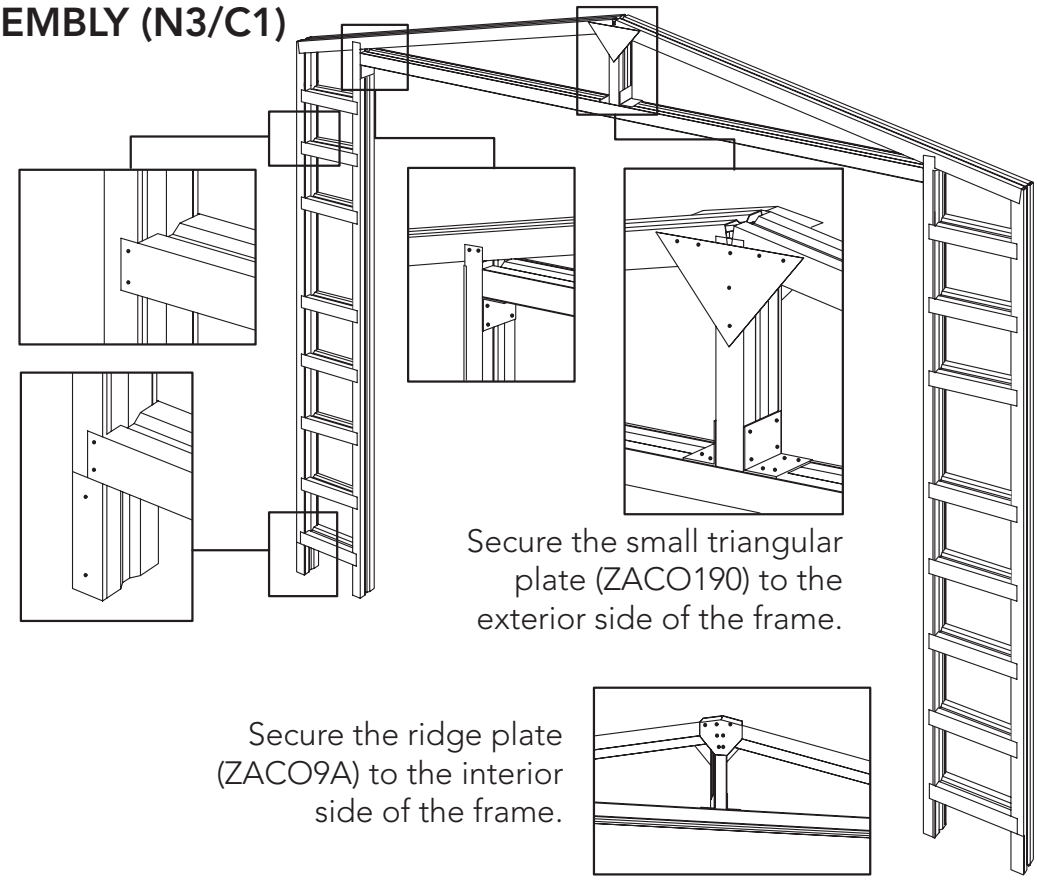
NOTE: These frames will need to be trimmed by 25mm to suit a rebated slab

LARGE GABLE SHED N3/C1 FRAME KIT

FOR WORKSHOP & UTILITY MODELS

FRONT FRAME ASSEMBLY (N3/C1)

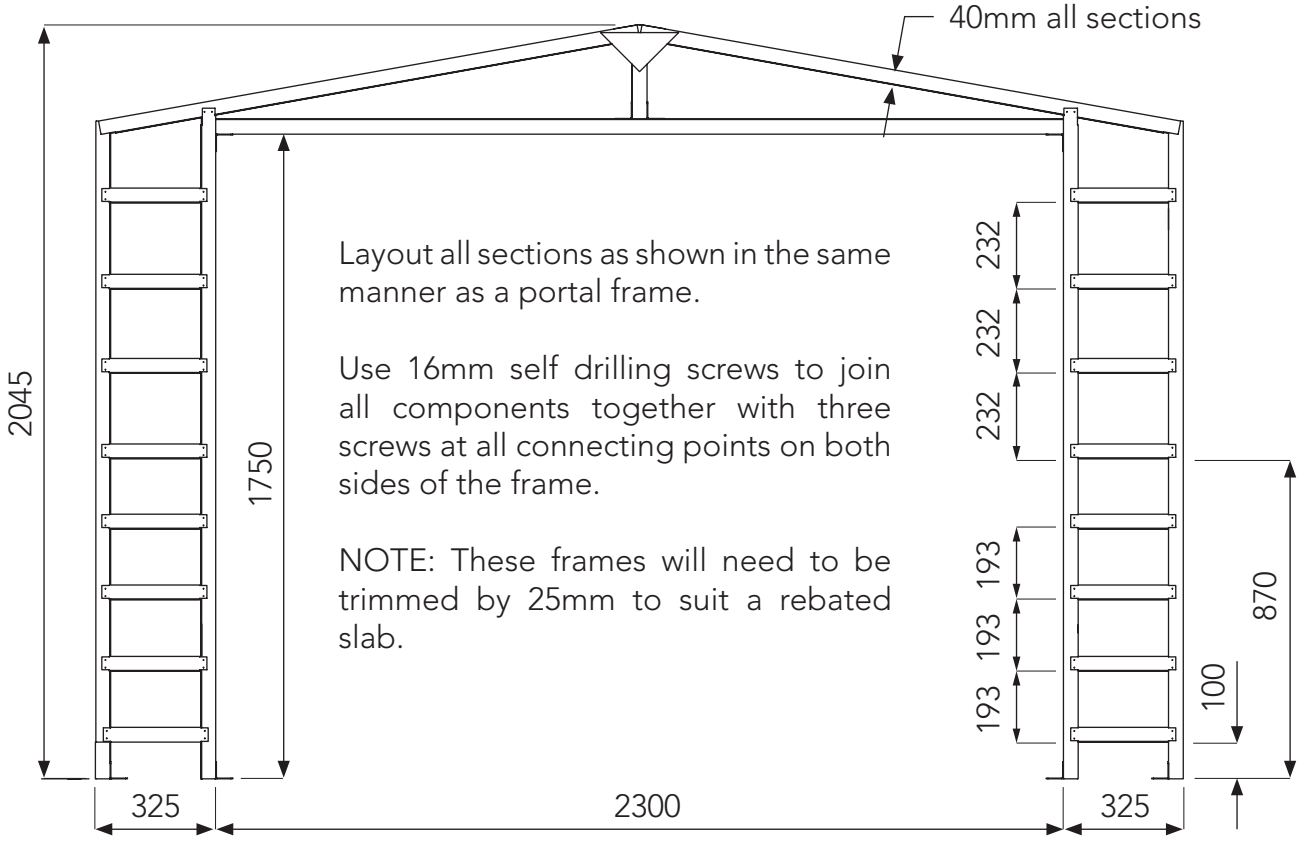
STEP 2 of 2.



Fit one C0100 to box the base of each outside leg as shown. These will later be used for securing the frame to the concrete slab.

Secure the small triangular plate (ZACO190) to the exterior side of the frame.

Secure the ridge plate (ZACO9A) to the interior side of the frame.



Layout all sections as shown in the same manner as a portal frame.

Use 16mm self drilling screws to join all components together with three screws at all connecting points on both sides of the frame.

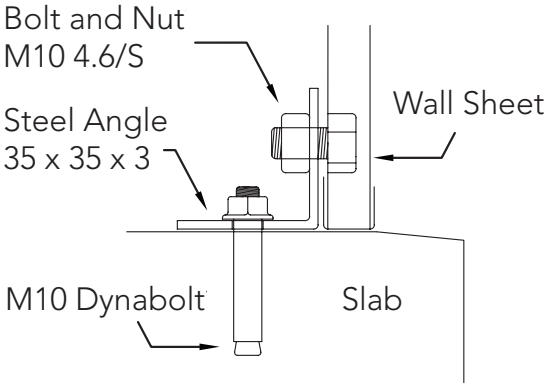
NOTE: These frames will need to be trimmed by 25mm to suit a rebated slab.

ANCHORING METHODS

Fixing M10 dynabolt requires drilling into the concrete slab using a masonry bit. Holes must have a minimum slab edge distance of 60mm.

Bolt and nut through the wall sheet requires the drilling of a 10mm hole through the wall sheet.

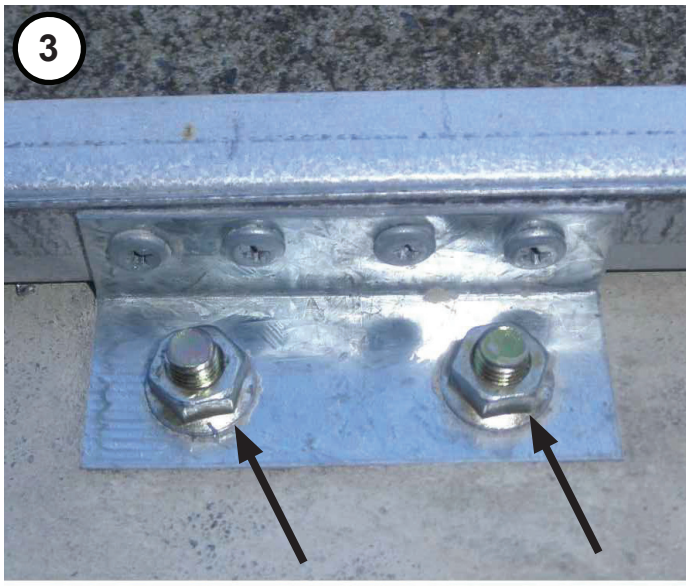
Portal frame anchoring detail shown in section "PORTAL FRAME DETAIL".



Inside view of typical anchor.

Outside view of typical anchor

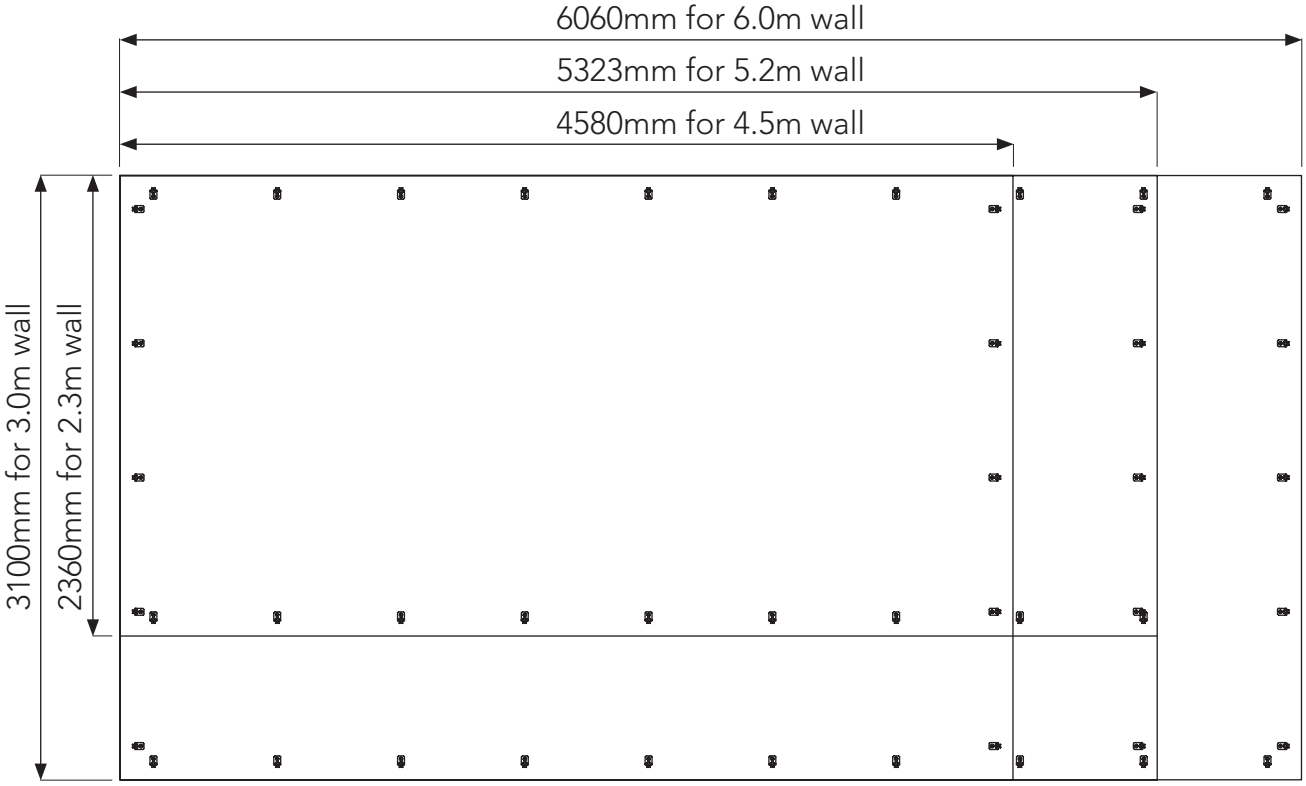
Door stud (Not portal frame) have a single anchor through a BKT17. Fixed by four tek screws.



Double door openings are required to be anchored using BKT12. It is fixed to the midpoint of the doorway channel with four tek screws as shown.

ANCHORING LAYOUT

Slab dimensions below illustrate the minimum required anchors per wall.
Ensure that anchors are evenly spaced along wall.



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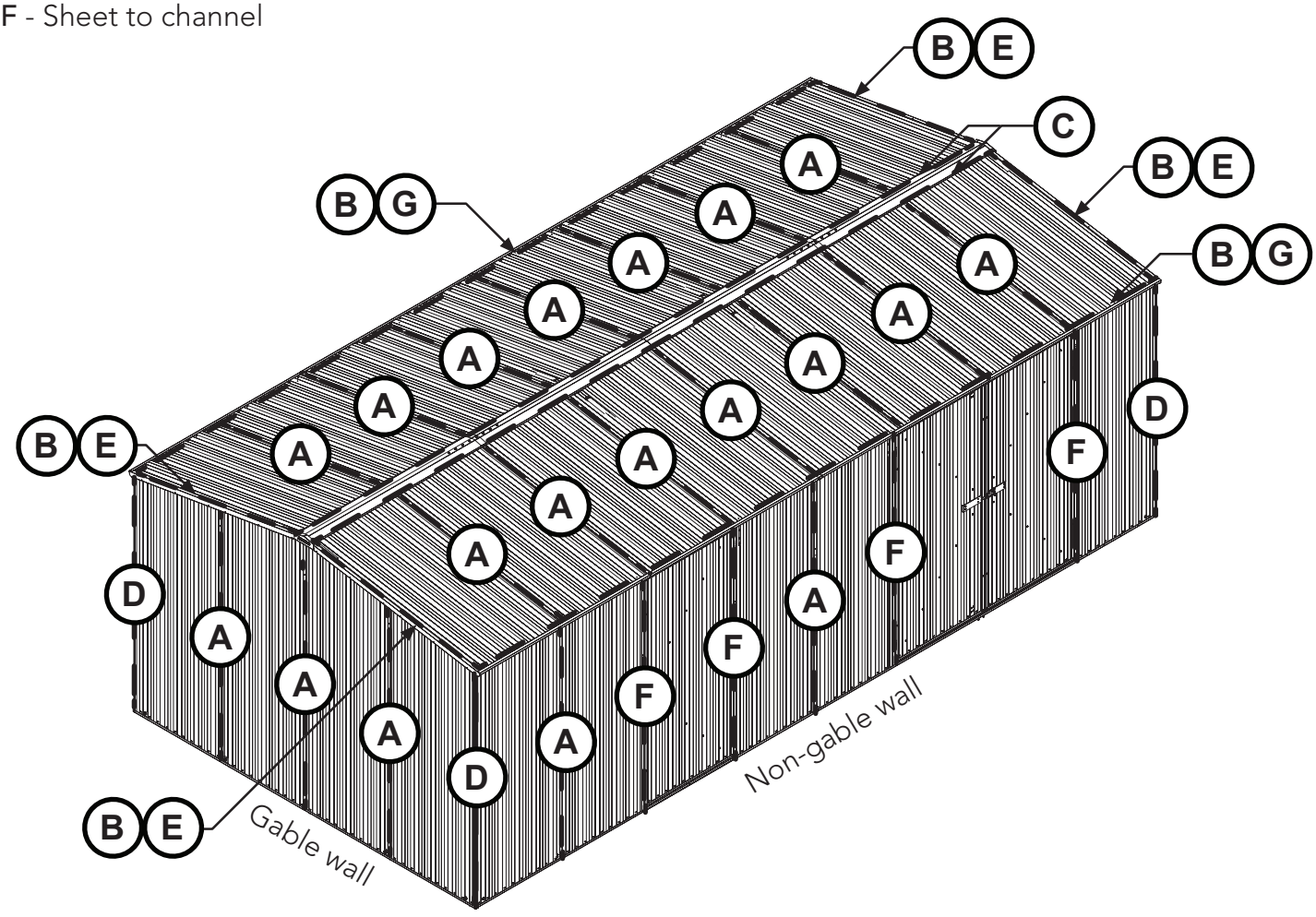
The remaining steps are to be performed after the FINAL CONSTRUCTION section of your product's instruction manual.

INSTALL EXTRA FASTENERS

Absco sheds sheets have punched holes typically spaced at 592mm from centre to centre.
To achieve a cyclonic wind rating additional screws will need to be installed to reduce these distances.
The fastener intended at these positions is FAST001, a 10mm self tapping screw.

Pre-drill and reinforce with extra screws at **148mm** centres in the following locations
B - Roof panel to wall
C - Roof panel to ridge beam - inside
G - Wall sheet to wall channel - inside

Pre-drill and reinforce with extra screws at **296mm** centres in the following locations
A - All sheet-to-sheet connections
D - Wall corners
E - Roof lip to sheet
F - Sheet to channel



60303WK shown for illustrative purposes.

INSTALL EXTRA FASTENERS - INTERIOR VIEW

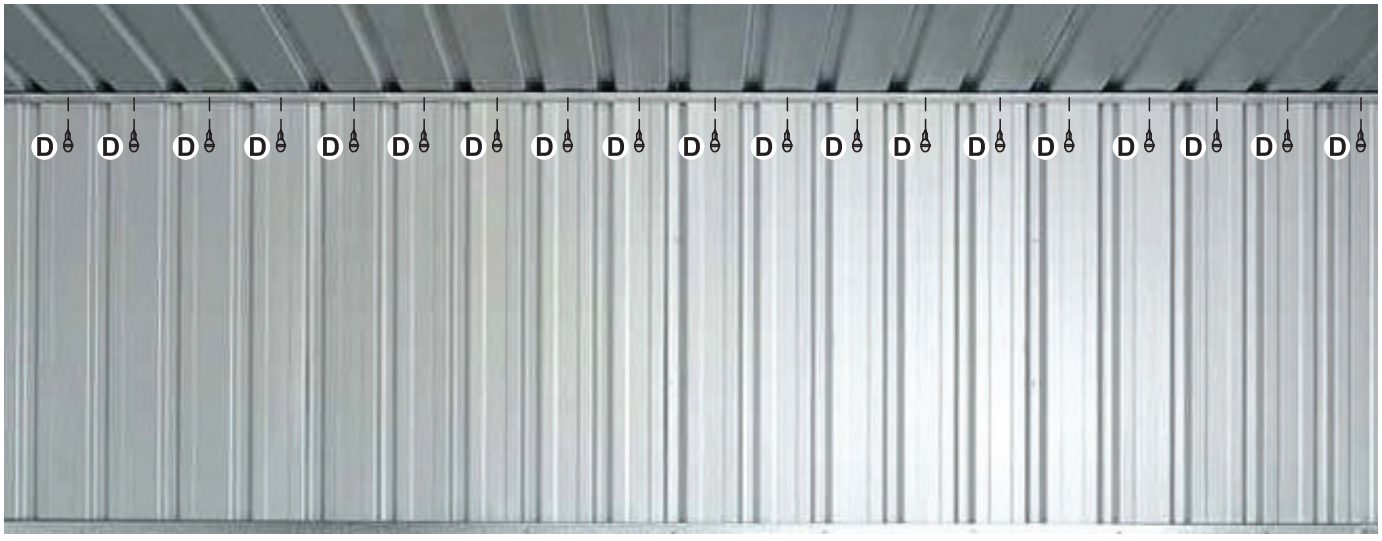
"C" - Roof panel to ridge beam.
Pre-drill from inside the shed upward through the ridge beam and into the roof panel at **148mm** centres, (every pan) then fix with a screw. Some screws will already be in these positions, skip these.

For illustrative purposes fasteners are shown on just one side of the ridge beam.
Repeat again to other side.

D ⊢----- means pre-drill hole and fix with FAST001

"G" - Wall sheet to top wall channel.

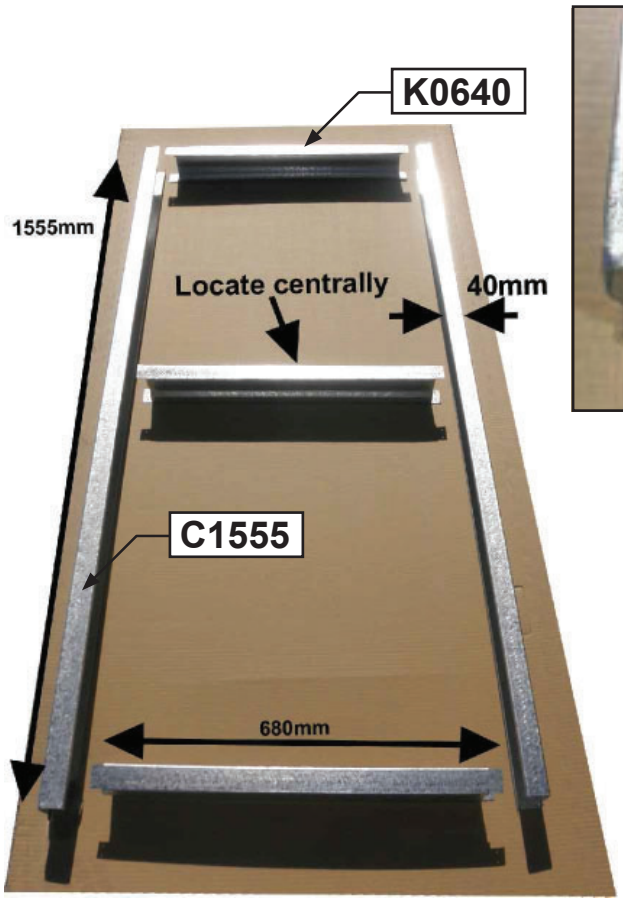
Pre-drill from inside the shed through the top channel and into the wall sheet at **148mm** centres, (every pan) and then fix with a screw. Do this on the non-gable walls only.

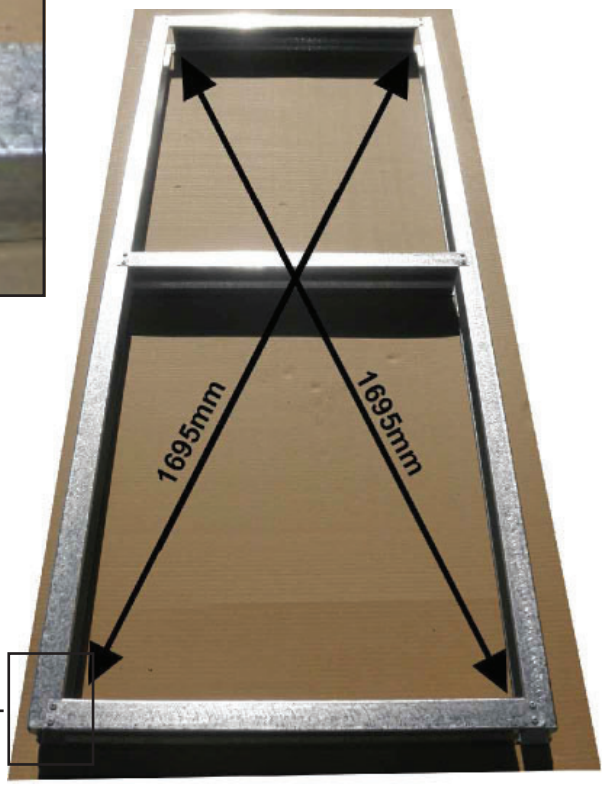


DOOR BRACING

NOTE: If the door has been completely assembled as per original instruction manual you will need to remove the diagonal door braces.

1. Seal any brace holes using the supplied pop rivets, FAST007. Perform from the outside of the door.





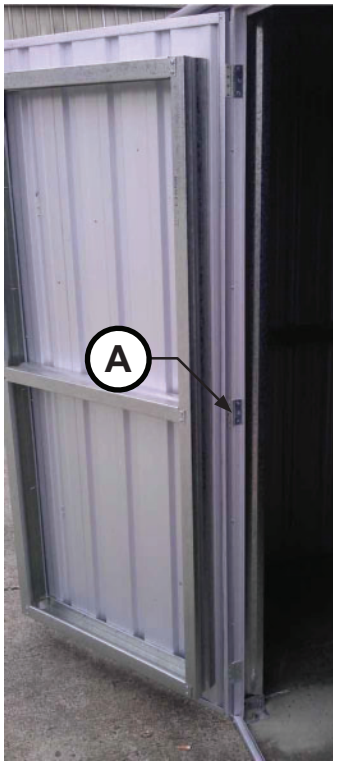
2. Place door frame components on a flat and level surface and use one tek screw at each join.

3. Make sure the frame is square and fix with a second tek screw at each join.

4. Turn frame over and repeat last step.

DOOR BRACING

5. Place the door frame against the door, ensure that it is centred. If the door is already fitted to the shed you may need a second person for this step. Alternatively you can removed the door and refit it with pop rivets.



6. Use tek screws to fix the frame to the door at every corner.

7. Continue fixing at 296mm spacings along each frame member.

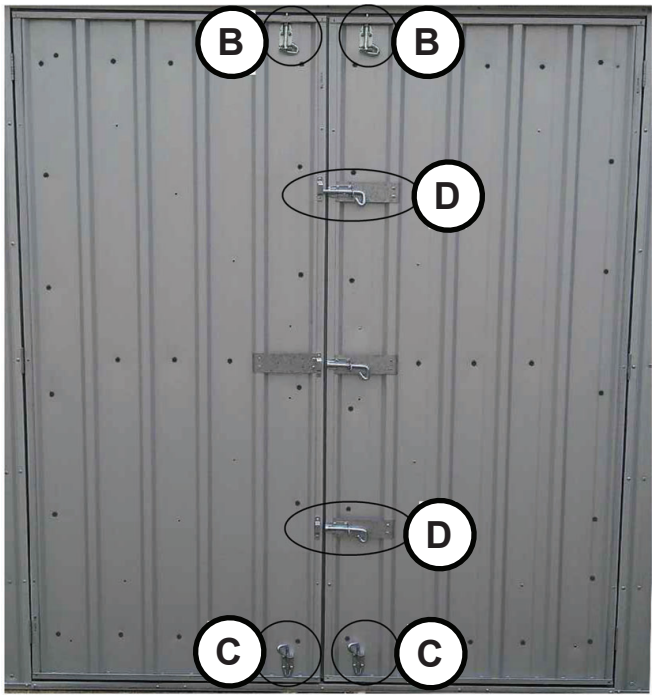
8. Install a third hinge at position **'A'**, as shown above. This is the midway point along the door channel and jamb. pre-drill the holes with a 3mm drill bit and fix with 3x FAST007 pop rivets.

9. Doors require additional padbolts. predrill and fix with the following:

Vertical positions **'B'** and **'C'**
- 1x Padbolt FAST006
- 4x nut FAST005
- 4x bolt FAST004

NOTE: Fit to exterior for double doors.

Horizontal position **'D'**
- 1x Padbolt FAST006
- 1x Door plate 12A
- 1x Hasp FAST007
- 6x Self tapping screws FAST001



10. Drill 10mm holes in the jamb above the door (ref image **'B'**) and the channel below the door (ref image **'C'**). These align with the vertical padbolt shafts of double doors.

BRACING FOR NON-GABLE WALLS

NOTE: This wall bracing will have to cut to suit from part C2100.

1. Take the cut-to-length framing for the non-gable wall, and partially box them together, **do not tek screw yet.**

2. Place the unscrewed box section against the wall, in the orientation pictured, and slide the two pieces apart until they make contact with the wall and the portal frame. This will also be the case between portal frames.

The result should look similar to what is pictured to the right.

Bracing installed on the non-gable wall between the wall and a portal frame.

3. Once the correct lengths have been determined proceed to fix them with tek screws at every second corrugation as described in BOXING FRAME SECTIONS.

It is important that the open side of the portal frames have been boxed before mounting to the wall. See the next page for detail.

TIP 1:
Cut two lengths of timber to 870mm. These will act as a height reference guide and help hold the horizontal braces. This makes installation much simpler and more effective.

TIP 2:
Take a single piece of wood at 890mm. This will act as a height template to mark the drilling positions when outside the shed to fix the internal bracing.

BRACING FOR NON-GABLE WALLS - PORTAL FRAME

For the open side of the portal frame take a piece of offcut, approx 150mm long, and box as shown.
NOTE: This method will be used later to mount the roof bracing.

Now fasten all boxed frame sections to the non-gable wall from the outside of the shed. This task is best done with two people.

Secure the wall bracing to the portal frame using a BKT17 and tek screws on either side as shown.

BRACING FOR NON-GABLE WALLS - DOOR STUDS

In instances where a portal frame is not positioned on both sides of the door opening, as per the framing layout, a door stud is required.

Two C1704 are to be used as follows.

Take the framing for the door stud and partially box them together, **do not tek screw yet.**

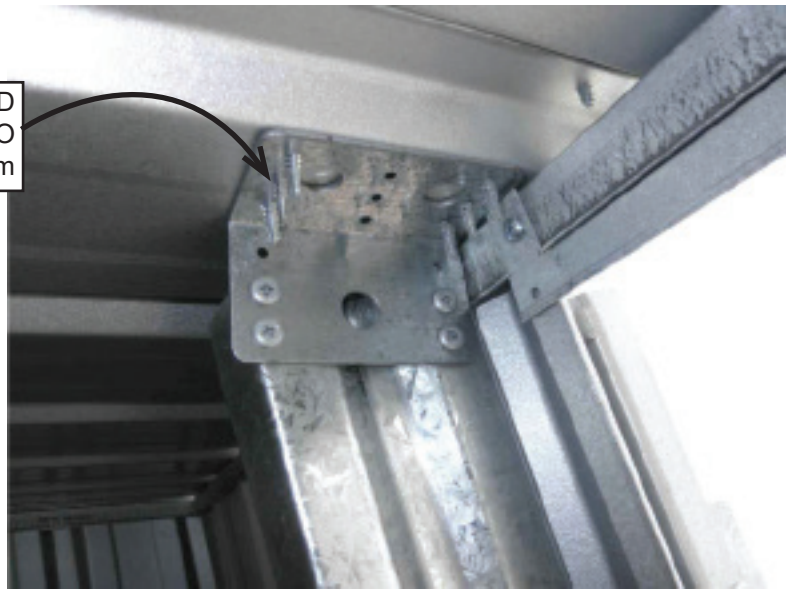
1. Place the unscrewed box section against the wall, in the orientation pictured, and slide the two pieces apart until they make contact with the floor and the roof panel.

2. Once the correct lengths have been determined proceed to fix them with tek screws at 296mm spacings as described in BOXING FRAME SECTIONS.

3. Fix wall bracing to this stud with BKT17 as previously shown in "BRACING FOR NON-GABLE WALLS - PORTAL FRAME"

4. Fix roof panel to the top of the stud using BKT 17 as shown below.

BKT17 fixed to roof sheet with 6 hex hd tek screws with neoprene washers from outside.

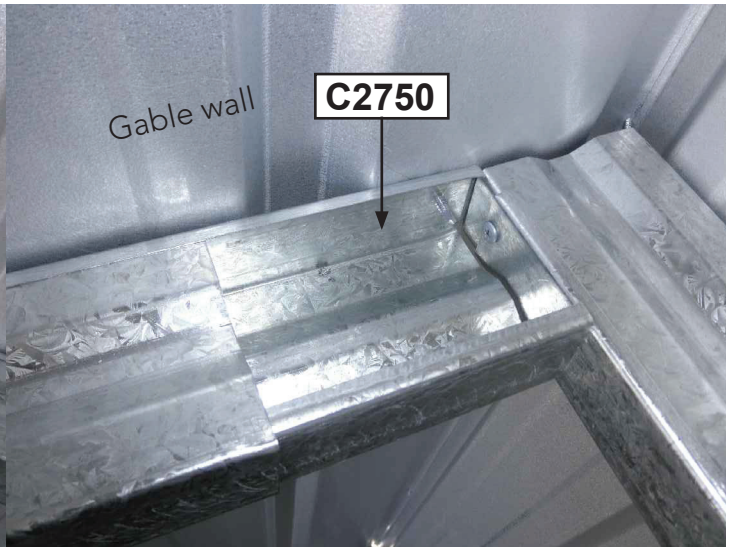


BRACING FOR GABLE WALLS

Construction for the gable walls is similar to the non-gable wall.
1. Take two C2750 frame pieces for the gable wall, and partially box them together, **do not tek screw yet.**

2. Place the unscrewed box section against the previously installed wall bracing and slide the two pieces apart until they make contact with it and the brace on the other wall. This is shown below.

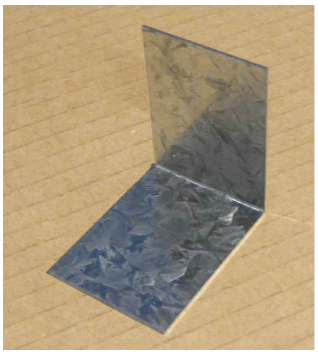
Previously installed wall bracing on the left and new gable wall bracing on the right.



The other end of the same gable wall brace butting up against the other previously installed wall brace.

3. Now the framing is at the correct length proceed to fix them together as per method described in BOXING FRAME SECTIONS.

4. Now boxed use tek screws to fix it to the gable wall from the outside of the shed. This is best done with two people.



5. Use corner brackets (BKT10) to secure the rear, side and front wall braces together. Position as shown and fix using four tek screws. Pre-drilling the bracket with a 3mm drill bit will make this easier.

ROOF BRACING

NOTE: This roof bracing will have to cut to suit from part C2100.

1. Align the roof framing along the midpoint of the roof, running perpendicular to the roof sheet corrugations. This may require two people.

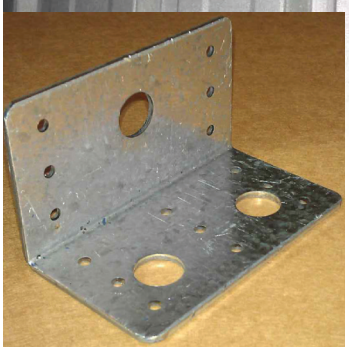
2. Using a marker trace along one edge of the channel onto the roof sheet as shown.
Next measure 20mm in from this line and mark again, this will the centreline of the bracing.
Proceed to drill a hole in every 2nd flat section of the roof sheet.

3. Where the bracing meets the open side of the portal frame it will need to be boxed as before in section BRACING FOR NON-GABLE WALLS - PORTAL FRAME.

4. While one person holds the roof brace in position use tek screws to fix the framing from the outside of the shed.

IMPORTANT: Do not sit, stand or walk on the roof or apply unnecessary pressure of the sheeting during this step.

5. Place a BKT17 to either end of the roof brace using 8 tek screws as shown.
The roof lip may need to be removed in order to fit the four tek screws from the outside of the shed.



Two multipurpose brackets, BKT17, are used per roof brace.

Absco Sheds Storage Guidelines

- Absco Sheds are designed to be weatherproof for normal weather conditions. In the event of extreme weather conditions such as heavy rain, combined with high wind gusts, the ridge capping, sheeting joins, screw fixings etc., may exhibit minor deformations which may allow some water entry. These areas should be checked regularly to ensure that maximum strength and protection is maintained.
- Other weather conditions such as extreme heat and extreme cold, moist or dry air can influence the effects of concrete floor moisture and/or condensation on the underside of the roof sheets.
- Absco Sheds and storage units are primarily used for storage of garden equipment such as lawnmowers, wheelbarrows, garden tools etc. Storage items that might be adversely affected by any of the above conditions may require additional protection such as being sealed or covered by plastic sheets and/or stacked above the concrete floor on timber slats.
- Waterproof sealants may be used to offer further protection where required around joins and screw fixings, as can rubber door seals and other products which are available from most hardware outlets.
- Placement of waterproof sealants (silicone) between the base of the shed and concrete slab is not recommended, as this process can have a reverse effect, preventing excess water from escaping, resulting with water accumulating and being trapped inside the shed.
- Absco accepts no responsibility for water entry, floor moisture, condensation or the condition of the Contents inside your Absco steel building arising from any of the pre-mentioned weather conditions.

6-12 Activity St, Acacia Ridge QLD 4110
PO Box 119, Acacia Ridge QLD 4110
AU: 1800 029 710
NZ: 0800 466 444
admin@absco.com.au
www.abscosheds.com.au

Lifetime Warranty Statement

This warranty against defects is given by:

Absco Industries (ABN: 77 869 708 678)
Address: PO Box 119 Acacia Ridge QLD 4110
Ph: 1800 029 701
Fax: 07 3344 1191
Email: admin@absco.com.au

Date of issue: 19 December 2018

Details of Manufacturer's Warranty

This product comes with a Lifetime structural warranty from the date of purchase. This warranty also applies where there are missing or damaged parts identified in the parts list referred to in the instruction kit within the product packaging.

Please ensure that you keep this warranty form in a safe place along with your proof of purchase. You can register your warranty online **http://abscosheds.com.au/warranty-details/** or complete the form on the back of this document and mail it back to Absco, along with a copy of your proof of purchase.

The benefits of this warranty are in addition to your rights under the Australian Consumer Law (ACL) and in particular, the guarantees implied under the ACL and any other rights and remedies of the consumer under a similar law in relation to the goods and services to which this warranty relates.

Process of claiming warranty:

To make a claim under the warranty within the warranty period, you will need to contact the manufacturer directly by phone or email:

Contact Number: 1800 029 701
Contact Email: admin@absco.com.au

You will be required to produce proof of purchase (this is at discretion of the manufacturer) at the time of the claim.

The manufacturer bears the cost of replacing the products or spare parts or repairing the products and reasonable direct expenses of claiming under this warranty:

Where parts are replaced, the manufacturer will bear the cost of sending the spare part and will endeavour to deliver it to the customer's nearest reseller within 20 working days for the customer to pick up. At such time the customer may be required to return the alleged faulty parts.

Where assessment is required in case of replacing or repairing the product, the manufacturer will appoint an assessor within 10 working days to identify the alleged defect. The manufacturer will bear the repair costs by appointing a local tradesman. The manufacturer may choose to replace the product if the repair or the cost of repair is not feasible. The replacement product will be available for collection from the nearest reseller within 20 working days. The customer will bear the cost of assembly for the replacement product.

IMPORTANT

1. Manufacturer's Disclosure

This warranty against defects shall not apply in the following situations:

A)Where the product is not assembled in accordance with the instructions provided in the product kit;

B)Where the product is used to store corrosive materials such as fertilizer, chlorine etc;

C)The warranty does NOT cover damage caused by storms, wind, rain, snow or poor foundations;

D)This warranty does not apply to surface deterioration of panels caused by 'Swarf' (Tiny particles of steel debris left from cutting, grinding or drilling operations) that has not been removed after building construction.

2. Notes

This product is weatherproof to a certain level; however driving windy rain may cause the product to leak. Condensation may also occur in some weather conditions such as extreme heat or cold. The product should only be used for storing items such as gardening equipment and should not be used for articles that may be prone to damage if they come into contact with moisture.

3. Major Defects

If the manufacturer is satisfied that the defect is a major defect, the purchase price may be refunded in lieu of providing a replacement product or repairing the product.

This warranty is provided in addition to other rights and remedies you have under law: Our goods come with guarantees which cannot be excluded under the Australian Consumer Law. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

If you do not wish to register your warranty online, complete the below form and email, fax or post this form back to Absco, along with a copy of your proof of purchase.

NAME: _____

STREET ADDRESS: _____ **POSTAL / ZIP CODE:** _____

STATE / CITY / PROVINCE / REGION: _____

COUNTRY: _____

SHED TYPE/CODE: _____

ORDER NO: _____

DATE OF PURCHASE: _____

EMAIL ADDRESS: _____

DATE REGISTERED: _____