



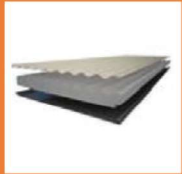
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HOME SYSTEMS®



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CONSTRUCTION
PROCEDURE

PARTS LIST



QBRC75(C)



QBRM75C)



QBSIPS75



QBRFSZ75C



QBRFBC75C



QBRF3030G



QBRGSQC



QBRFRC75C



QBRFZEC



QBRF4040C



OBSACC75



QBRF7330WC



QBRGECC



QBRGBC



QBSID820/720



QBSSTS121445



QBSSCF1830



QBRFZPJS75LM



QBSSD85



QBSPHDJ90



QBSS40W



QBSSTS121420B/N



QBSSW1016C



QBSS135/150



QBSSTA25

PREPERATION

// Recommended equipment

- Safety attire
- Scaffold
- Power Tools
- Props
- Hand Tools

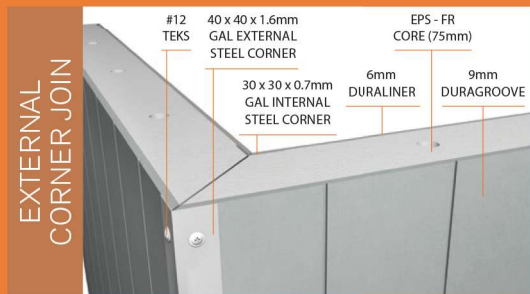
// Check the sub floor is correct in size by measuring the length and width of the floor.

// Check the floor is square by measuring the diagonals of the floor, ie corner to opposite corner, or by using the 3 4 5 method. Measure from a corner of the floor along one edge of the floor 3.0m and measuring from the same corner along the other edge of the floor 4.0m. Then measure from the 3.0m mark on the floor edge across to the other 4.0m mark on the other floor edge, the floor is perfectly square if this measures 5.0m.

// Check the floor is level with a spirit level or a dumpy laser level.

// Check materials supplied against Bill of Materials referring to images of products supplied

STANDARD FIXING DETAILS



STEP 1 – BASE FRAMING SECTION INSTALLATION

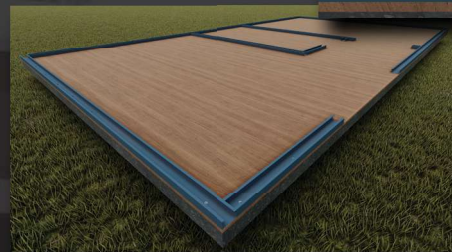
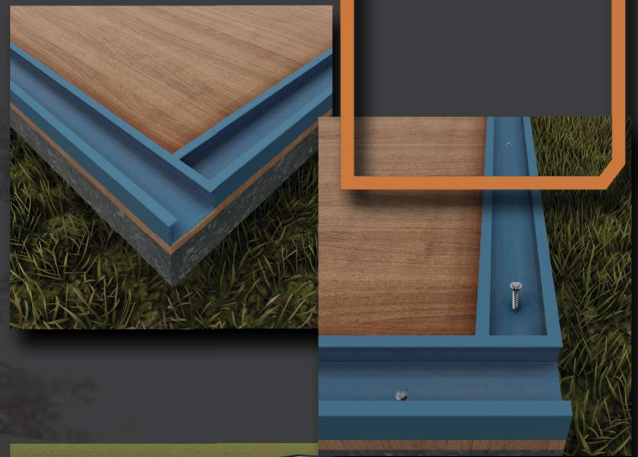
// Trim and fix the 75mm base Steel Framing Section (QBSACC75) to the external edge of the floor. Note that there should be no framing section at the door openings.

// No need to mitre the Steel Farming Section at the corners, simply cut square the channel ends so the internal legs of the channel neatly touch.

NOTE - ELECTRICAL LAYOUT: Mark visibly and very clearly on the floor the proposed electrical layout. This is necessary when fitting the Top Caps as you stand wall panels.

// Fix the channel down to the steel flooring system with 45mm Metal Tekes or to concrete slab with Dynabolts. (Engineer specification)

// Fix 75mm Base Steel framing section (QBSACC75) to the floor for internal wall installation as marked on the plans supplied



STEP 2 – EXTERNAL WALL INSTALLATION

// Start at Corner Panel E3-1 and corresponding corner panel on Elevation 2 as marked on plans supplied.

// Prepare the appropriate temporary bracing for propping the external walls. (Suggested bracing – long lengths of timber decking)

// Place Corner panel **E3-1** in position, plumb, brace and fix to the inside of the 75mm Steel Framing base channel.

// Place Corner panel on Elevation 2 in position, plumb, brace and fix to the inside of the 75mm Steel Framing base channel.

// Fit the 30 x 30 internal steel corner angle (QBRF3030G) to join the corner. Fix to corner panels at 200mm centres as per engineering specifications

// Continue to fit the panels along Elevation 3 by placing the correctly labeled panel in order onto the Steel Framing Section

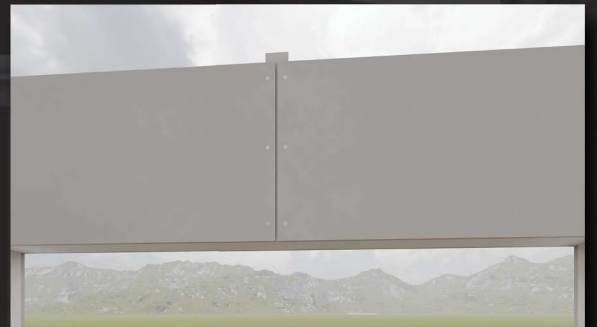
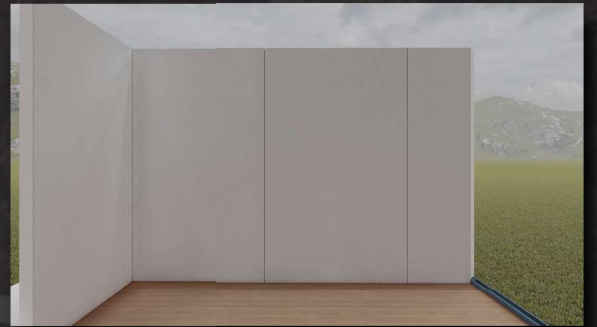


STEP 2 – EXTERNAL WALL INSTALLATION

// Once the panel is positioned, install the 75mm internal Gal steel strips (OBRFZPJS75LM) internally and externally behind the Fibre Cement (FC) sheets in the foam routes provided

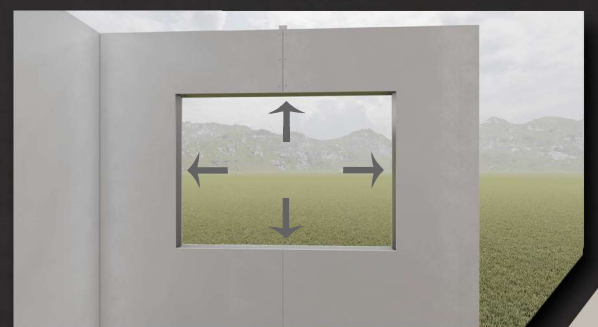
// Fix Gal steel strips to Engineer specification.

// Temporary brace each wall section at each window opening. Install the bottom panel of the window opening.



// Carefully measure the window opening and install the Top header panels above the Window and the Doors. These panels are clearly labelled per the drawing supplied. When fixing the top header panels above the Window and Door Openings, ensure that there are sufficient fixing screws into the side of each panel into the steel strips behind the joins. This will ensure that the top header panels stay into position prior to installing the windows and the doors

// Install internal steel channels to window and door openings.



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// Starting at Panel E4-1, proceed to Elevation 4 (Side Wall).

// Place corner panel E4-1 in position, plumb, brace and rivet the inside leg of the base channel.

// Fit the 30 x 30 internal steel corner angle (QBRF3030G) to join the corner. Fix to corner panels at 200mm centres as per engineering specifications

// Erect Elevation 4, in the same manner or process as described for the erection of Elevation 3 wall.

// Starting at Panel E1-1, on Elevation 1

// Place corner panel E1-1 in position, plumb, brace and rivet the inside leg of the base channel.

// Fit the 30 x 30 internal steel corner angle to join the corner. Fix to corner panels at 200mm centres as per engineering specifications

// Erect Elevation 1, in the same manner or process as described for the erection of Elevation 4 wall.

// Temporary brace each wall section at each window opening.

// Complete all window and door openings and framing as described above

// Starting at Panel E2-1, on Elevation 2

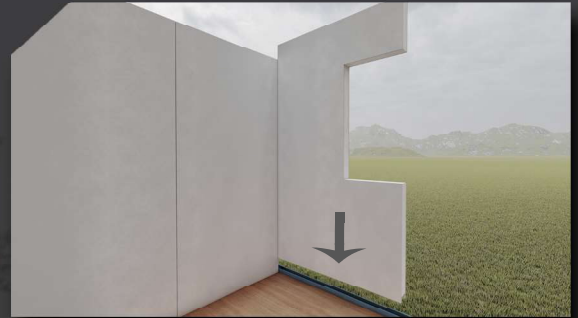
// Place corner panel E2-1 in position, plumb, brace and rivet the inside leg of the base channel.

// Fit the 30 x 30 internal steel corner angle to join the corner. Fix to corner panels at 200mm centres as per engineering specifications

// Erect Elevation 2, in the same manner or process as described for the erection of Elevation 4 wall.

// Temporary brace each wall section at each window opening.

// Complete all window and door openings and framing as described above



STEP 3 – INTERNAL WALL INSTALLATION

// Mark the internal walls out with a chalk line, from the external walls.

// Cut the 75mm Steel Framing base channel (QBSACC75) to suit the internal wall lengths and fix down through the steel floor frame or concrete slabs with 40mm Metal Tek's or Dynabolts at 450mm centres.

// Mark the internal skin of the external wall panels at position of the internal walls. Using a level and string line, position the 75mm Steel Framing Section vertically against the external wall panels and fix at 200mm centres.

// Stand the internal wall panels in position onto the 75mm Steel Framing channel.

// Once the panel is positioned, install the 75mm internal Gal steel strips (QBRFZPJS75LM) internally and externally behind the Fibre Cement (FC) sheets in the foam routes provided

// Temporary brace each internal wall section

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STEP 4 – TOP PLATE AND ELECTRICAL CABLE INSTALLATION

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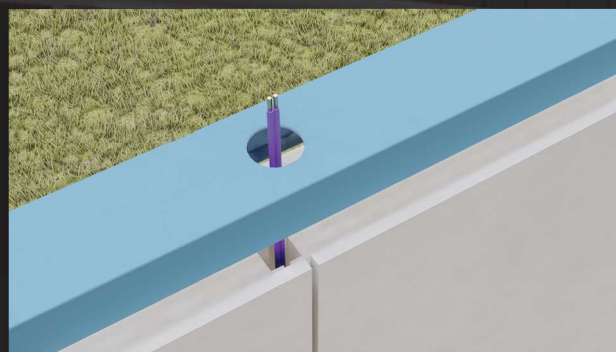
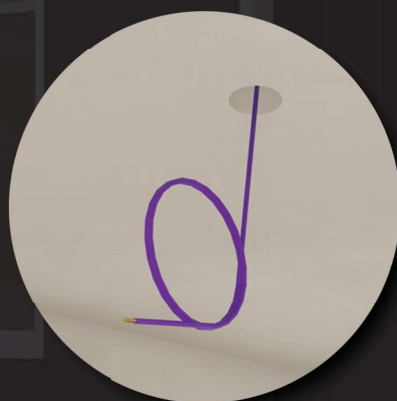
// Transfer the electrical layout marked on the floor to the ceiling and walls. Cut the appropriate power point, light switch and light holes in position

// **ELECTRICIAN** to run cables around the top of the wall panels in the foam routes provided. Feed electrical cables into the wall panels per diagram and in the vertical foam routes provided.

// Install the Top 75mm Steel Framing section onto the external and internal wall panels. Note that holes must be cut in the steel framing section where cables are required to enter roofing panels

// Ensure that the Top 75mm Steel Framing section is fixed internally and externally to wall panels **prior to the roof being installed**

// Allow enough cable for the roof lights (requirements) and pull through holes cut in the top 75mm steel framing section



Insulspan Roof panel Installation

// Looking at the front of the Home, start on the left hand side of the Home, Elevation 4

// Cut the male side Corrugated roof sheet and under skin off the first Roof Panel (QBRC100(C)) flush with the styrene. Place the first Roof Panel in position over and flush (or eave as required) with the outside of the side wall, Elevation 4.

// Using 150mm Metal Tekes (QBSS135/150) at 150mm centres, fix the panel down.

// Place the next panel alongside the first panel, lap the Corrugated roof sheet and lift the female side of the roof panel approximately 30 degrees and lower until the under skins engage.

// Repeat this process until the roof is completed, fixing each panel down as you go using 150mm Metal Tekes at 150mm centres.

Electrical Cutouts - Between 150mm Centres

// At points where electrical cable resides, cut hole in the bottom of the roof panel in line with the foam route provided

// Pull the electrical cable through roof panel and cut hole where cable exit required.

// Pull cable through hole in the ceiling panel

// Where electrical cables go through steel channels or ceiling skin plastic grommets are recommended

Stitch Roof Sheet Overlaps

// At roof sheet laps stitch with 20mm Tek Screws (QBSSTS121420B/N) with Rubber Grommets at 1000mm centres



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// Start with the 2 External Wall Corner Caps -

On elevation 1 and 3, Fit the External 40mm x 40mm Corner Angles (QBRF4040C) with #12 Tek Screws (Fix at 200mm centres both sides). The External Corner Cap starts at the top underneath the Roof panel and extends down the full length of the corner, finishing flush with the bottom edge of external wall panel. (fig. 6.6)

// Roof Flashings - 'Z' Flashing - On elevation 3, fix the 'Z' flashing (QBRFZC75C) underneath the corrugated roof sheet using coloured M4 rivets at 300mm centres and coloured M4 rivets through the underside of the Roofing panels at .450mm centres. (fig.6.9)

// Barge Capping - Barge capping's (QBRFBC75C) are supplied for elevations 1, 2 & 4. Place barge capping on the roof into position on elev. 2 or 4. Align barge capping with edge of roof panel on elevation 1 and at the other end, mark a line on the Barge capping flush with the face of the 'Z' flashing (Fig. 6.8) and cut. Place the Barge into position on the roof and use 45mm metal tek screws (QBSSTS121445) to fix the top of barge into the insulated roof panel at .900mm centres and M4 colored rivets (QBSS40W) to fix the bottom of barge capping to the underside of the roof panel at .500mm centres.

// Repeat this same process for the barge at the opposite side of the side building.

// Front Barge - The front barge (QBRFBC75C) is supplied about .300mm longer than the roofing on elevation 1. This allows for .150mm fold over on each end once the barge is fitted. Measure and mark lines on barge capping .150mm on each end and cut on lines. (See fig. 6.11). Place barge into position on roof (elev. 1) and fold ends over sides (fig 6.10) then fix as per instructions above.



Fig. 6.7



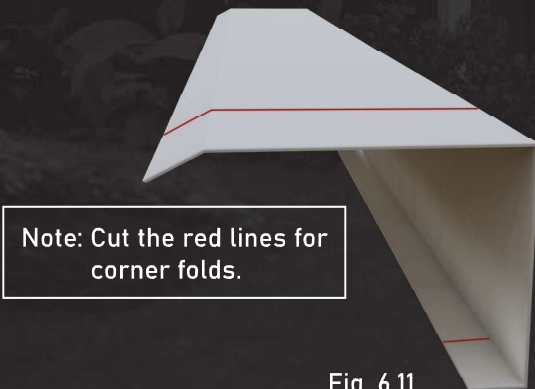
Fig. 6.6



Fig. 6.9



Fig. 6.10



Note: Cut the red lines for corner folds.

Fig. 6.11

// Gutter Brackets - Fit the gutter brackets (QBRGBC) to the 'Z' flashing using M4 Rivets at .900mm centres with minimal fall towards the down-pipe at the end of elevation 3. (fig. 6.9)

// Fitting the Gutter - Fit gutter end caps (QBRGECC) to both ends of the gutter (QBRGSOC) and apply silicone internally, (allow to dry for 1-2 hours). Apply silicone to any gutter joins. Once silicone has dried, lift the front top lip of the gutter over the gutter brackets that are fixed to the 'Z' Flashing on elevation 3, Then lower the gutter down into the brackets and bend the gutter brackets clip down securing the gutter into Place.

// Horizontal Angle - 25mm x 25mm metal angles 6b (QBSSTA25) are supplied for elevations 1, 2 and 4. Starting on elevation 2 or 4, the 25 x 25 angle should be fixed from corner to corner of the elevation. Fasten angle to underside of roof panel (eave) using coloured M4 rivets at .450mm centres, and fasten to the external wall sheet using coloured Wafer Tek screws at .450mm centres.

(See fig 6b)

// Repeat the same process on all elevations.



Fig. 6b

// Carefully measure the window opening and install the Top header panels above the Window and the Doors. These panels are clearly labelled per the drawing supplied. When fixing the top header panels above the Window and Door Openings, ensure that there are sufficient fixing screws into the side of each panel into the steel strips behind the joins. This will ensure that the top header panels stay into position prior to installing the windows and the doors

// Install the 75mm Gal Steel Capping Channels (QBFR7330WC) internally into the Window and Door Openings into the foam routes provided

// Window and Door internal frames will have been installed in Step 2(a) above

// Insert the face fix windows and doors into appropriate opening and externally fix to wall panels with 10mm Coloured Wafer Tekes

// Finish the internal side of the window or door with aluminium window architrave mitred in each corner.

// Fix Internal architrave with 10mm Wafer Tekes

// Cover Internal and External Fixings with Plastic Cover trims provided



STEP 8
INTERNAL DOORS

// Cut and assemble the pre hung timber door jambs (QBSPHDJ90) on the floor and fit the internal timber door to the door jamb. Position the door in the jamb with a standard 3mm gap between the door and jamb. Temporary brace the top corner of the jamb. One to brace the jamb square and position, 2. Prevent the door from swinging out while standing and positioning the door and jamb into position.

// Lift the assembled door jamb into the opening

// Complete the door with the handle.

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STEP 9
PAINTING AND
FINISHING

// Refer Dulux or other manual for exterior and interior paint finishes and procedures

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