

# STRATCO HOMESHED ASSEMBLY INSTRUCTIONS

## FIXING TO CONCRETE SLAB

These pages are designed to give you the basic assembly techniques to fix your Stratco Gable Homeshed onto a concrete slab. Please use this page in conjunction with the main set of instructions supplied, "Stratco Gable Homeshed, Framework" and the appropriate door installation instructions.

### 1.0 COLUMN SPACING

Determine the location of the concrete slab. Figure 1 and TABLE 1 COLUMN SPACING indicate the location of all columns. The outside edge of your slab shall be no less than 70mm from the outside face of the columns.

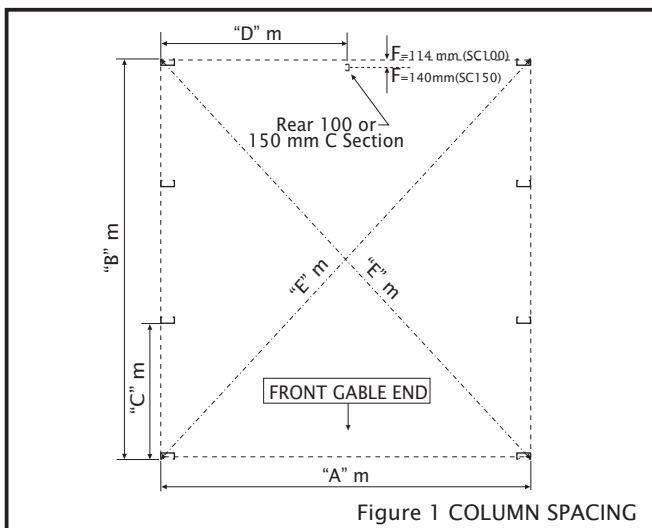


Figure 1 COLUMN SPACING

### 2.0 SLAB

Two base plate styles are available and depend on the type of concrete slab being laid. If you have chosen to incorporate integrated footings with your slab, a two hole base plate will have been welded to the base of your columns, if your slab is not going to integrate footings four hole base plates will have been supplied.

#### Concrete Slab with Integrated Footings:

Footings shall have a diameter of either 450mm or that as specified in Table 2.2 ("Stratco Gable Homeshed, Framework"), whichever is greater, with the depth as specified in the same table. Mark out and dig footing holes at the locations indicated in STEP 1.0 of the "Framework" instructions. Pour the concrete footings and score the top before pouring the slab. The slab must be at least 100mm deep.

**Note:** Remember to include footings for any internal roller door columns on Type 1 sheds (6.2 & 6.9m wide sheds only). Footings are not required for centre roller door columns on Type 2 sheds but

SIZE	W(m)xL(m)	A	B	C	D	E
G1	3.159m x 6.207m	2.953	6.151	3.045	-	6.823
G2	3.159m x 7.731m	2.953	7.675	2.537	-	8.223
G3	3.159m x 9.255m	2.953	9.199	3.045	-	9.661
G4	3.921m x 6.207m	3.715	6.151	3.045	-	7.186
G5	3.921m x 7.731m	3.715	7.675	2.537	-	8.527
G6	3.921m x 9.255m	3.715	9.199	3.045	-	9.921
G7	5.445m x 6.207m	5.239	6.151	3.045	2.644	8.080
G8	5.445m x 7.731m	5.239	7.675	2.537	2.644	9.293
G9	5.445m x 9.255m	5.239	9.199	3.045	2.644	10.586
G10	5.445m x 12.303m	5.239	12.247	3.045	2.644	13.319
G11	6.207m x 6.207m	6.001	6.151	3.045	3.025	8.593
G12	6.207m x 7.731m	6.001	7.675	2.537	3.025	9.743
G13	6.207m x 9.255m	6.001	9.199	3.045	3.025	10.983
G14	6.207m x 12.303m	6.001	12.247	3.045	3.025	13.638
G15	6.969m x 6.207m	6.763	6.151	3.045	3.406	9.141
G16	6.969m x 7.731m	6.763	7.675	2.537	3.406	10.230
G17	6.969m x 9.255m	6.763	9.199	3.045	3.406	11.417
G18	6.969m x 12.303m	6.763	12.247	3.045	3.406	13.990

Table 1 COLUMN SPACING

slab thickness should be increased to a minimum 120mm for a 300mm square area under the location of this column. PA door mullions do not require footings.

### Concrete Slab Only:

If you are fixing your Gable Homeshed to a slab without integrated footings the slab shall be of minimum 120mm thickness, and include a layer of mesh reinforcement.

In some cases it may be necessary to build the concrete up to the height of the base plate under a roller door in the gable end to minimise gaps. This is best assessed following installation of the door.

**Note:** For both applications the concrete slab shall have a minimum compressive strength of 20MPa. The required slab thickness may need to be greater than the minimum specified above depending on site conditions (Stratco assume no liability for slab damage due to ground movement).

## 3.0 WALL FRAMES

Once the slab has set, mark out column locations. Follow STEPS 3.0 to 6.0 from the “Framework” instructions. Also refer to STEP 4.0 below if PA door/s are being installed.

Stand the completed wall frame in the positions marked and temporarily brace as illustrated in Figure 2 STANDING WALL.

Repeat for opposite side wall. Do not remove bracing until column base plates are fixed to the concrete.

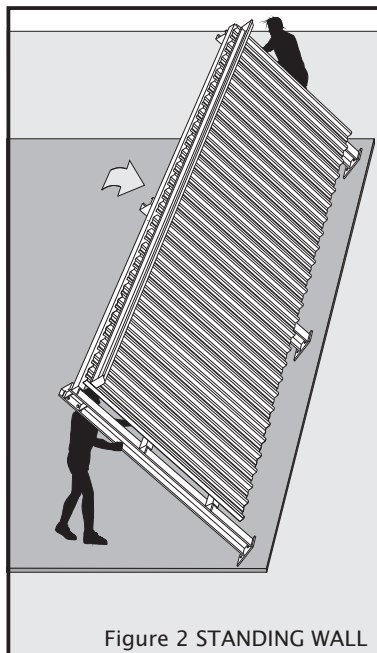


Figure 2 STANDING WALL

**Important Note:** It may be necessary to pre-drill some or all of the concrete anchor holes before columns are braced in position. If columns interfere with the drill and do not allow clearance through base plate holes, mark and pre-drill required holes to size and depth specified in STEP 5.0.

## 4.0 PA DOOR

If your Gable Homeshed includes PA door/s, door mullions will need to be cut to sit flush with the top of the concrete slab. Mullions are to be fixed to the slab using a 45mm angle bracket with an M10x20 hex head bolt and M6.0 x 40 masonry anchor as shown in Figure 3 PA DOOR MULLION. All other details are as specified in the “Framework” instructions.

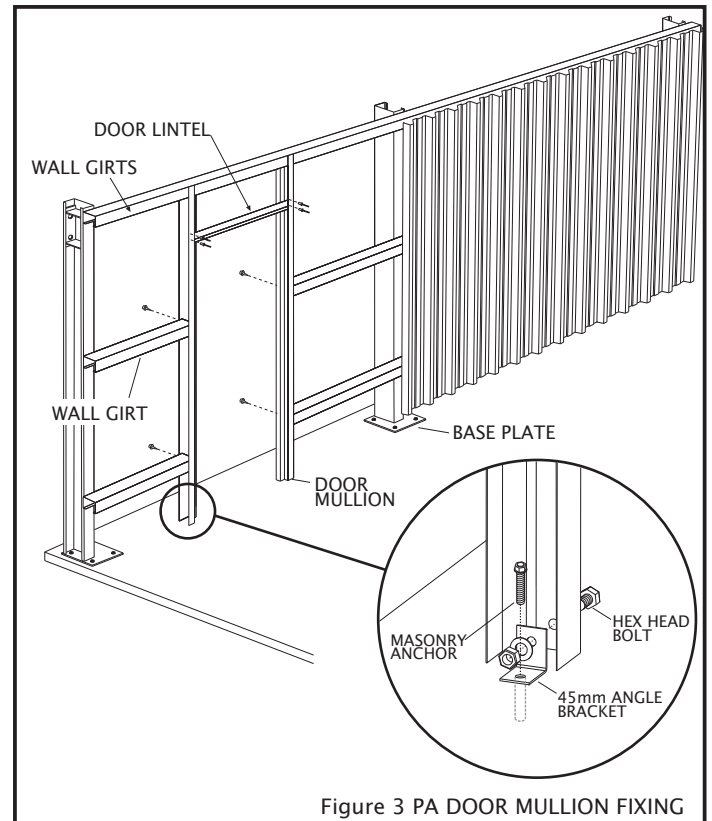


Figure 3 PA DOOR MULLION FIXING

## 5.0 FIXING TO SLAB

Follow steps 8-16 in the the “Framework” instructions and check wall alignment.

### Concrete Slab with Integrated Footings:

The size of base plate welded to the base of columns depends on the shed size and site wind speed. Measure the thickness and hole diameter of the plates on your shed to determine the appropriate fixing requirements:

#### Type A: 10mm plate thickness, 19mm hole diameter.

Each plate is fixed with two M16 threaded rods embedded a minimum of 150mm below the thickness of the slab (e.g., 100mm slab thickness will require minimum 250mm anchor embedment). Drilled hole shall be 18mm diameter with chemical injection required to set anchors.

#### Type B: 12mm plate thickness, 24mm hole diameter.

Each plate is fixed with two M20 threaded rods embedded a minimum of 150mm below the thickness of the slab (e.g., 100mm slab thickness will require minimum 250mm anchor embedment). Drilled hole shall be 24mm diameter with chemical injection required to set anchors.

**Type C: 16mm plate thickness, 24mm hole diameter.**

Each plate is fixed with two M20 threaded rods embedded a minimum of 200mm below the thickness of the slab (e.g., 100mm slab thickness will require minimum 300mm anchor embedment). Drilled hole shall be 24mm diameter with chemical injection required to set anchors.

Refer Figure 4 INTEGRATED FOOTING BASE PLATE FIXING.

**Notes:**

Threaded rod will need to be cut to the required length.

End columns require the same fixing details as indicated above. Refer to "Concrete Slab Only" specification below for fixing requirements of centre roller door columns on Type 2 sheds.

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

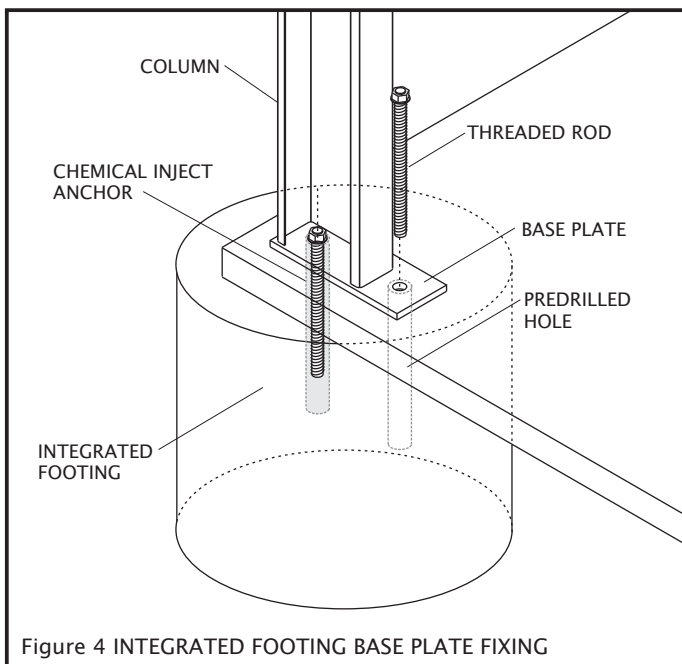


Figure 4 INTEGRATED FOOTING BASE PLATE FIXING

**Concrete Slab Only:**

For this application base plates are to be fixed with four M12 chemical capsule anchor studs at 90mm concrete embedment. End columns will require the same fixing details. Refer Figure 5 SLAB ONLY BASE PLATE FIXING.

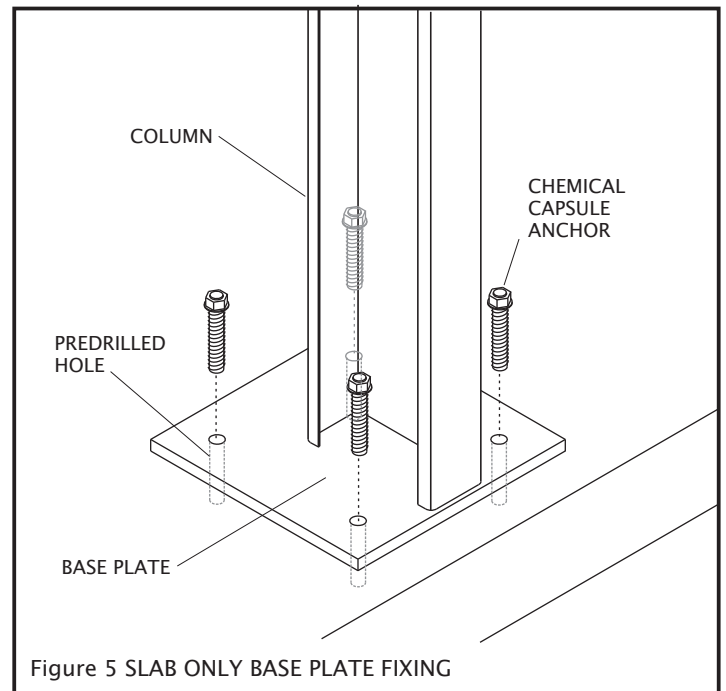


Figure 5 SLAB ONLY BASE PLATE FIXING

For Type 2 Gable Homesheds in either of the slab applications, the centre roller door column base plate is to be fixed with four M12 chemical capsule anchor studs at 90mm concrete embedment. Refer Figure 6 CENTRE ROLLER DOOR COLUMN FIXING.

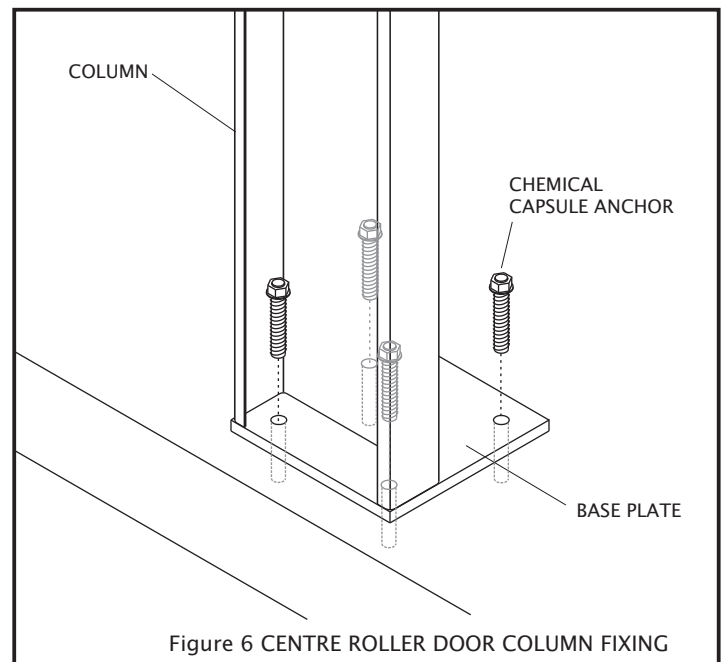


Figure 6 CENTRE ROLLER DOOR COLUMN FIXING

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

Continue with "Framework" instructions to complete shed.



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