



# SteelChief

SMALL SHEDS. BIG IDEAS.

## THE HUT IN GROUND ELEVATION & OPTIONAL EXTRAS

**COMPONENTS LIST** – Timber and Parts pictures are contained in Installation Instructions.

Ensure you have all parts before leaving your distributor or commencing installation.

90mm x 90mm POSTS					
CONCRETED	ELEVATION HEIGHT			Quantity	CHECK
	0.45m	1.2m	1.5m		
	Length	Length	Length		
	(m)	(m)	(m)		
	0.9	1.78	2.08	6	
<b>STAIRS</b>	<b>0.58</b>	<b>1.46</b>	<b>1.81</b>	<b>1</b>	
150mm x 38mm BEARERS					
	FRONT		SIDE		CHECK
	Length	Quantity	Length	Quantity	
	(m)		(m)		
	1.705	3	2.4	2	
FIXING SCREWS					
				Quantity	CHECK
Bugle	100mm long Allen key head.			42	
Bugle	70mm long Allen key head.			10	



### BEFORE COMMENCING INSTALLATION:

1. Read all instructions thoroughly.
2. Cubby options (eg. Slides, nets, etc.) and stairs are sized for respective elevation heights. Due consideration of this should be given to sites with excessive amounts of fall.
3. Identify and segregate all components.
4. Gather required tools.

### TOOLS REQUIRED:

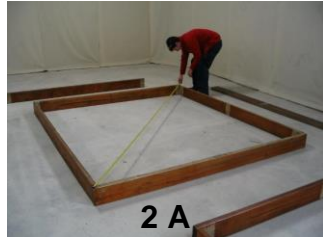
- Variable speed drill with 5mm Allen key bit.
  - Safety glasses.
  - Shovel and crow bar.
  - Level.
  - Tape measure.
  - Square.
- Ensure underground services are clearly marked.**

# INSTALLATION INSTRUCTIONS – ELEVATION

1. Layout the bearers on the ground in desired position. Place the front bearers inside the side bearers. Position the centre bearer in the middle of the two side bearers.



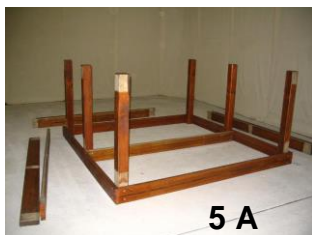
2. Check the frame is square by measuring the diagonals – both should be equal. If not move a corner as required to achieve square.
3. Using two 70mm bugle screws on each corner, screw through the side of the side bearers into the end of the front and middle bearers. On completion check the frame is square as per step 2 above.



NB : If installing connecting bridge refer now to page 4 Connecting Bridge instructions.

**If installing Elevation Shop Front refer to page 4 instructions.**

4. Mark the required number of post positions on the ground in each corner of the inside of the frame. Move the frame aside and dig post holes to an approximate depth of 0.45m for 0.45m elevations, 0.6m for taller elevations.
5. Return the frame to position above the post holes and again check the frame is square as per step 2 above. Lower the posts into the holes on the inside of the frame.



6. Using a level to ensure one of the front corner posts is vertical, measure from the ground and place a mark at the nominated elevation height, less 20mm to allow for the height of the yet to be installed floor. (ie. For a 1.2m elevation, the mark to the ground measurement should be 1.18m.). Raise the frame above the ground and align the top of the frame 70mm from top of post. Screw through the centre of the bearer into the centre of the post.



7. Use a level on top of the bearers and on the sides of each post as you work from post to post. Screw through the centre of the bearer into each post.

8. Using two 100mm bugle screws in an angled pattern from the top to the bottom of each bearer, complete screwing each bearer to the posts.

**NB: Using a level, ensure bearers remain vertical whilst screwing them to the posts.**



9. Cut any excess length off the posts such that they protrude 50mm to 60mm above the top of the frame.
10. Place the floor frame onto the bearers. Hold the floor frame flush to the front of the elevation frame and lower into position. The frame is designed to be a tight fit and may require gentle persuasion with a hammer. Final positioning is achieved when the floor joists are in full contact with the bearers, with the frame flush to the front.
11. Using one 100mm bugle screw on each post, screw through the floor joists into the side of each post.
12. Check again that the frame is square and level. Mix 1 shovel of cement to every 4 shovels of suitable aggregate to fill the post holes. Compact with the blunt end of a crow bar. Add one bucket of water to each hole at the completion of the Cubby installation. (NB: If optional extra Sandpit included, install as per Installation Instructions before concreting posts.)
13. Place stairs in desired position against the edge of the verandah floor – either centre front, left side front, or right side front for cubbies / centre of any side for forts. The top of the stair frame should be level with the top of the floor and the bottom of the frame must have solid even contact with the ground. Using two 75mm bugle screws, attach the front plate of the stairs to the side of the floor.
14. Follow respective Cubby installation instructions to complete the installation process.

## OPTIONAL EXTRAS

### COMPONENTS LIST

OPTION	DESCRIPTION	FIXING TYPE	QTY	CHECK
<b>Barn doors</b>	Split height door in front panel.	wooden knobs & thread	2	
<b>Extra window</b>	Perspex panels for window.	505mm H, 290mm W	2	
<b>Side Balustrade</b>	0.61m x 0.57m frame.	Bugle – 70mm	4	
<b>Middle Balustrade</b>	0.645m x 0.57m frame.	Bugle – 70mm	4	
<b>D Handle</b>	0.61m long handle.	Particleboard – 50mm	6	
<b>Sandpit seat</b>	0.55m, 150 x 38mm Timber Board	Bugle – 70mm	4	
<b>Slide</b>	3.1m or 2.5m long plastic.	Particleboard – 50mm	2	
<b>Scramble net</b>	1.2m or 1.5m frame with net.	Particleboard – 50mm	2	
<b>Firemans pole</b>	4m Steel pole. 70 x 35 mm pine, 0.645m long	Bugle – 70mm Bugle – 70mm	2 4	
<b>Connecting Bridge &amp; balustrades</b>	1.8m x 0.75m decked frame. 1.8m x 0.57m frame. 1.78m x 0.57m frame.	Bugle – 70mm	12	
<b>Elevation Sand Pit</b>	3 – 1.705m 150 x 38 mm Bearers 2 – 2.4m 150 x 38 mm Bearers	Bugle – 100mm	72	
<b>Servery</b>	1.2m x 0.68m Timber Deck 1.2m Timber Shelf 1.2m Timber Verandah	Bugle – 70mm Particleboard – 50mm Wooden knobs & 2 thread Cabin Hooks Phillips head – 20mm	6 3 4 2 8	
<b>Letter Box</b>	Timber letter box	Particleboard – 50mm	2	
<b>Flower Box</b>	Timber flower box	Particleboard – 50mm	2	
<b>Elevated Shop Front</b>	2 x 1.245m, 150 x 38mm Timber Board 1.065m, 150 x 38mm Timber Board	Bugle – 70mm	7	

# INSTALLATION INSTRUCTIONS – OPTIONAL EXTRAS

## Side & Middle balustrades

1. Fit the balustrade into position by aligning the top of the balustrade with the top of the adjacent balustrade on one end, then swing the other end into position. Use a level to assist in final positioning. To ensure a neat fit, gentle persuasion with a hammer may be required.
2. Screw two 70mm bugle screws through the side of the balustrade frame into the veranda post / front wall on each end.

## Sandpit seat

1. Position seat in corner level with top of boards.
2. Screw two 70mm bugle screws through the boards and into the end of the seat on both sides.

## Slide

1. Position the end of the slide with the predrilled holes centrally in the desired opening.
2. Final positioning is achieved when the end of the slide sits flat on the floor, with the shaped wings underneath the slide hard against the face of the floor frame. Ensure the base of the slide is on stable level ground.
3. Screw two 50mm particleboard screws through the holes in the slide into the floor.

## Scramble net

1. Position the scramble net frame centrally in the desired opening.
2. Level the top of the frame with the floor and screw two 50mm Particleboard screws through the face of the frame into the floor joists. Ensure the base of the frame is on stable level ground.

## Firemans pole

1. Position the 645mm long 70mm x 35mm stud in the desired opening at your preferred height.
2. For middle positioning in the balustrade drill two 70mm bugle screws through the posts at either end into the stud. For side positioning drill through the stud into the veranda post at one end and the cladding stop at the other.
3. Dig a hole 500mm from the edge of the structure approximately 300mm deep, centrally located in the preferred opening.
4. Cut the firemans pole to the desired length (recommend minimum 100mm depth into concrete), and fill hole with concrete.
5. Push the pole into the wet concrete and using two 70mm bugle screws fix the pole to the stud.
6. Allow concrete to set before using.

## Connecting Bridge

1. Position both bearer frames ensuring they are running parallel 1.8m apart. The bridge will join the two frames finishing flush with the front of a cubby frame, or in the middle of a fort frame. Position the bearer frames accordingly.
2. Complete steps 4 through 9 from Elevation Installation Instructions on one elevation.
3. Raise the second bearer frame to level with the first bearer frame and secure similarly to posts.
4. Follow step 10 of Elevation Installation Instructions to fit both floor frames.
5. Position the bridge flush with the front of a cubby frame, or in the middle of a fort frame. Ensure the top of the bridge is level with the floor surface on each end.
6. Using two 70mm bugle screws, screw through the end frame of the bridge into the side of the floor frame on each end.
7. Return to Elevation and Fort / Cubby Installation Instructions to complete structures before installing bridge balustrade as follows.
8. Install balustrades as per Side & Middle balustrade instructions above. Shorter balustrade (1.78m) fits between cubby wall and fort, longer (1.8m) between cubby veranda post and fort.

## Elevation Shop Front

1. If structure has 6 posts, position centre post using top board of Shop Front.
2. Secure using two 70mm bugle screws through the Face boards into the posts at each end.
3. Fit the Top board using three 70mm bugle screws through the Top board into the edge of the Face boards.