





Starter/Extension Balustrade & Gate Kit Installation Guide

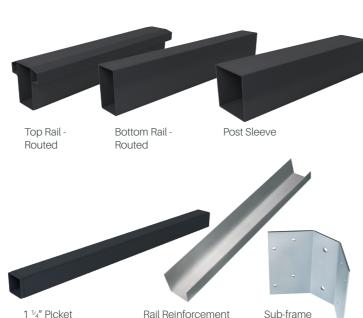
How to install your balustrade starter and/or extension packs

Within this guide, we will provide step-by-step instructions on how to install our balustrade and gate kit systems.



1 x Gate 960mm x 950mm

- 2 x Hinges with Screws
- 1 x Latch & Lock with Screws





Fixings





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2

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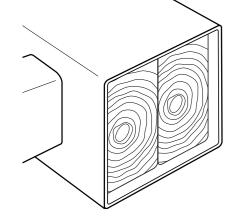




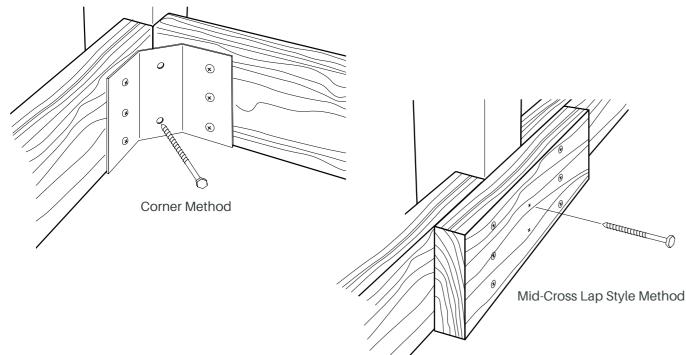
HOW TO INSTALL POSTS

Single Post Kits - 3 items: Double Post Kits - 6 items: 1 x 1828mm (6') Post, 1 x Post Cap, 1 x Post Skirt. 2 x 1828mm (6') Posts, 2 x Post Caps, 2 x Post Skirts.





- 1. Post requires reinforcing with timber at nominal 95mm x 95mm alternatively 2 off 95 x 47mm timbers screwed together at max 400mm centres can be used. Timber should be class C16 or C24. It is also recommended that timber is glued on mating faces.
- Post and timber should be supported on a level solid base such as concrete pad.
- **3.** Posts should be secured to deck sub-frames using one of the following methods:
 - Corners using a Sub-Frame Bracket
 - Mid Cross Lap Style: let into the sub-frame and supported with a backing timber on the inner side.
- 4. Post caps should be secured with low modulus neutral cure silicone.
- Post skirts are used to mask the cut/expansion gap of the deck planks. Where required, skirts should be trimmed to fit and secured with low modulus neutral cure silicone.



HOW TO INSTALL BALUSTRADE STARTER OR EXTENSION KITS

Top Rail, Bottom Rail, 2 x Top Brackets, 2 x Bottom Brackets, 2 x U Channel Reinforcements, Foot Block, Pickets 945mm 14, 16 x Bracket Fixing Screws, 13 x Reinforcement Fixing Screws (one for foot block).

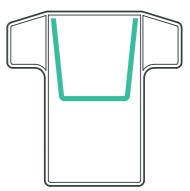
1. Top and bottom rails should be cut to length -Distance between posts minus 15mm, allows for the thickness of two brackets and an expansion gap at each rail end. Gaps between last picket and post should not exceed 100mm. Please see matrix for bar lengths, and distance between Posts that give equal gaps.

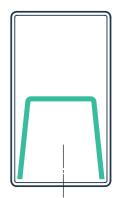
Number of Pickets	Nominal bar length 1828mm - Square 92mm Gap		
	Distance Between Posts	Cut Bar Length mm	Bar End to Hole Edge
14	1832	1817	84.5
13	1707	1692	
12	1583	1568	
11	1459	1444	
10	1335	1320	
9	1210	1195	
8	1086	1071	
7	962	947	
6	838	823	
5	713	698	
4	589	574	
3	465	450	
2	341	326	
1	216	201	

Note: Cuts should be made at both ends to keep the rail routing symmetrical.

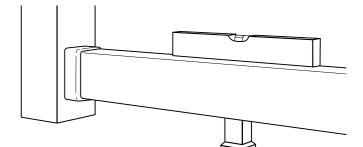


 U Reinforcement is cut to the same length as the PVC Rail and inserted in the following orientation. Drill 2 x 10mm diameter holes in the base of the bottom rail through the reinforcement to allow for drainage.

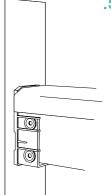




 A foot block is secured to the underside of the bottom rail/ reinforcement at the mid-point using a 4.8mm (no10) x 19mm Self Tapping Screw. The reinforcement should be piloted with a 3.5mm drill.



4. The height of the bottom rail bracket from the deck surface is obtained by placing the rail/foot block assembly into position with a bracket body on one end. When the bottom rail is level mark the position of the bracket onto the Post. Brackets are secured using 4 off 30mm stainless steel countersunk wood screws.



.5. Assemble the top and bottom rails together with their pickets and drop the assembly into the bottom rail bracket bodies. Place a bracket body at each end of the top rail marking its position on the Post. It should be possible to lean the rail and picket assembly aside to fit the bracket bodies. Secure using 4 off 30mm stainless steel countersunk wood

screws.

6. Ensure that the rails/reinforcement are centrally positioned before securing the rail assembly to the brackets via the side holes in the bracket body with 3 off 4.8mm (no10) x 19mm Self Tapping Screws. The reinforcement should be piloted with a 3.5mm drill.

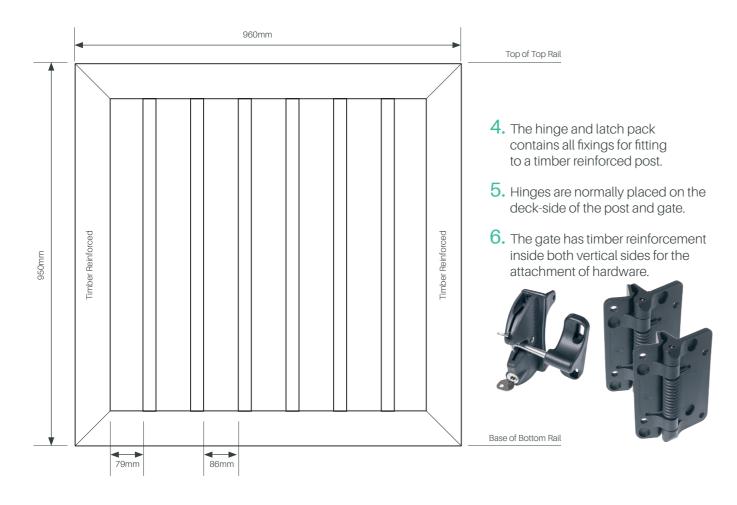
Note: Only 3 of the 4 bracket holes align with the U-reinforcement.

7. Brackets are finished be clipping on the bracket covers. (care should be taken not to over stress the covers.

HOW TO INSTALL GATE

960mm x 950mm Gate, Hinge Pack, Latch & Lock.

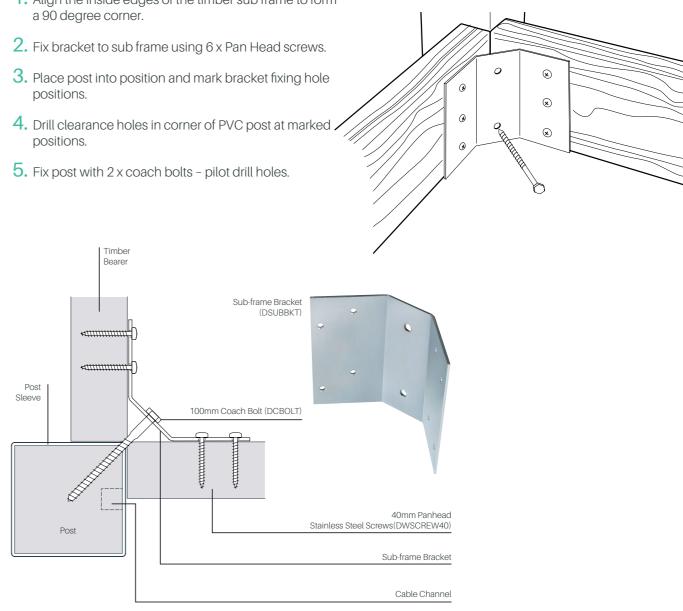
- 1. The gate is designed to align with the balustrade when using supplied Pickets in the Balustrade Kits. The top of the gate should be fitted in line with the top of the balustrade rail.
- 2. For a 960mm wide gate the distance between posts should be 1000mm to allow for gate hardware.
- 3. The Bottom of the gate can be identified by 2 x drainage holes.





4 x Brackets, 2 x 100mm Coach Bolts per Bracket, 6 x 40mm Pan Head Screws per Bracket

- 1. Align the inside edges of the timber sub frame to form a 90 degree corner.
- positions.
- positions.







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