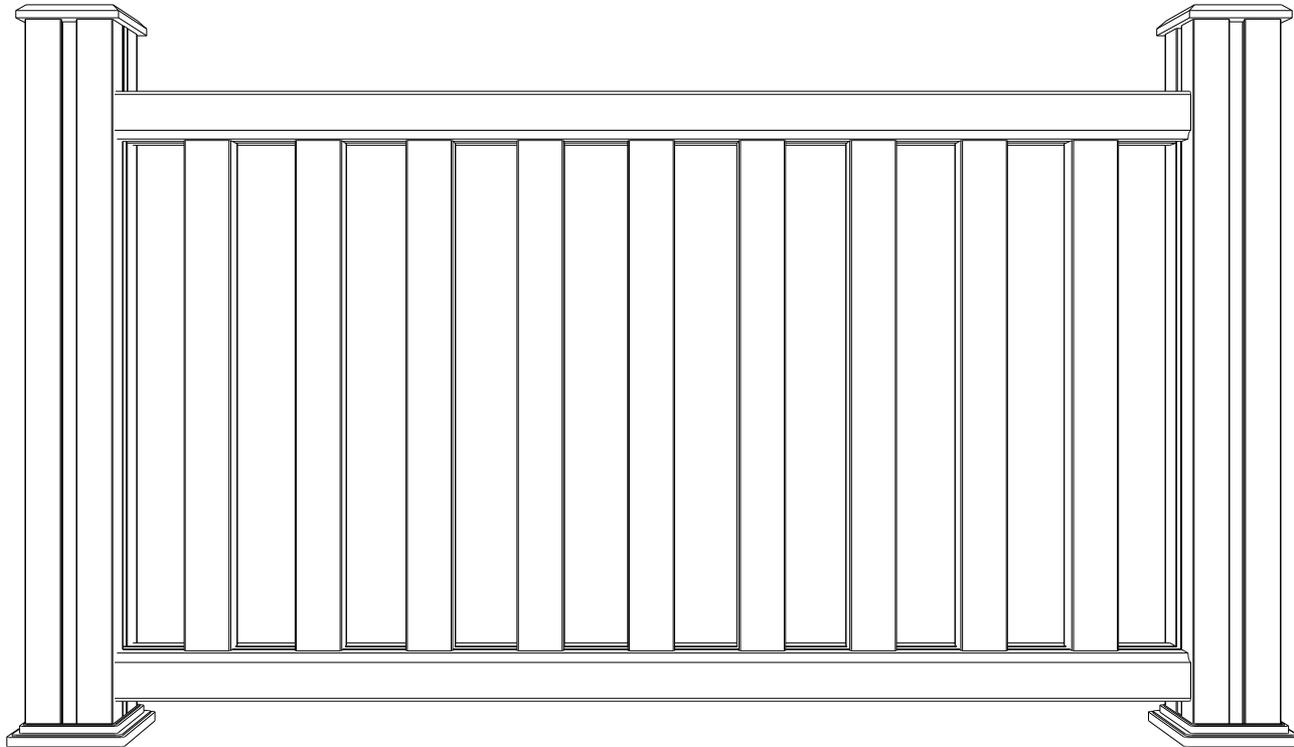
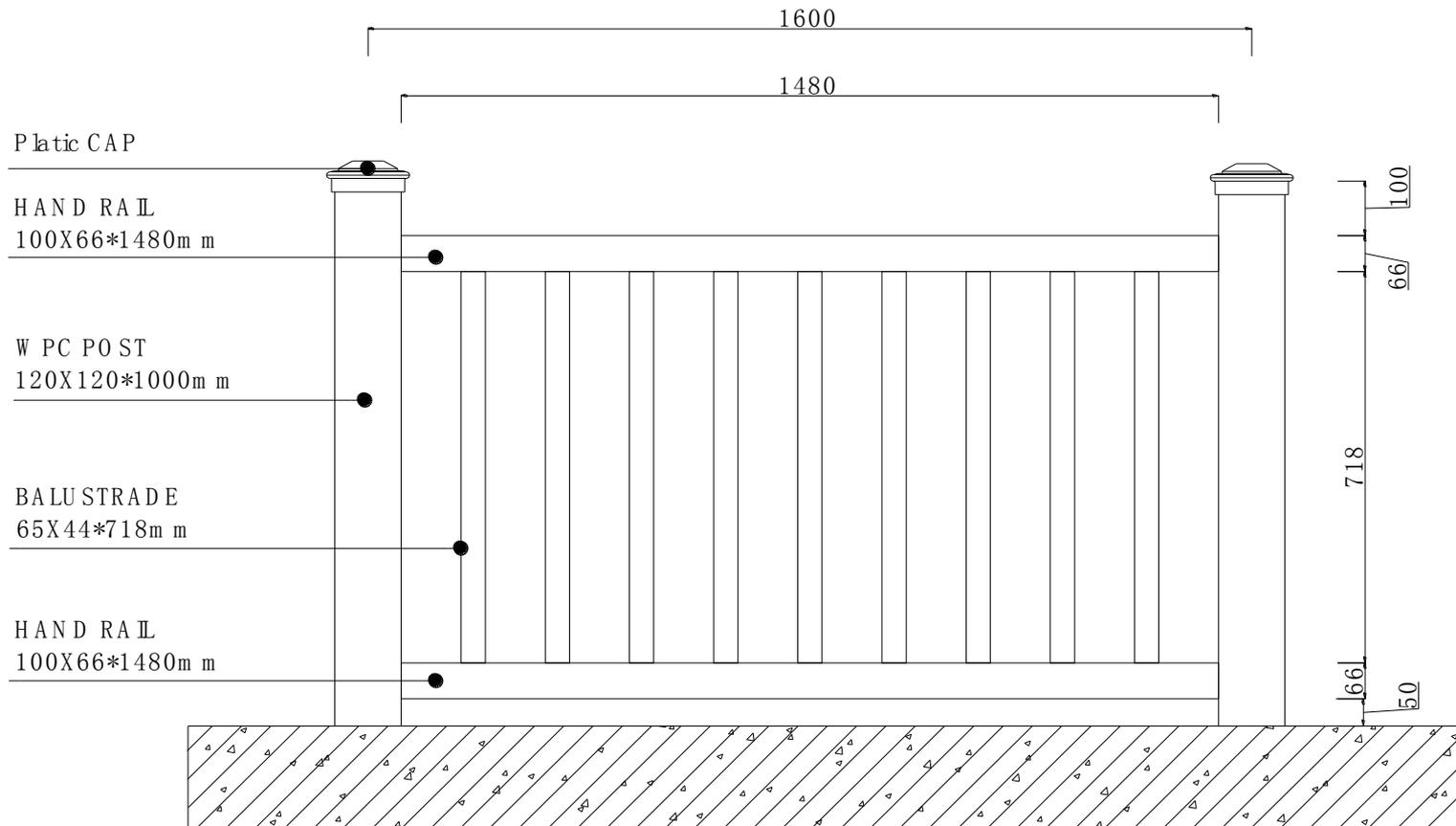


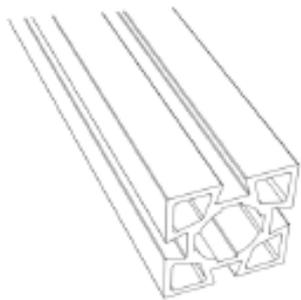
Installation Guide for Railing System

Hand Rail System Overview

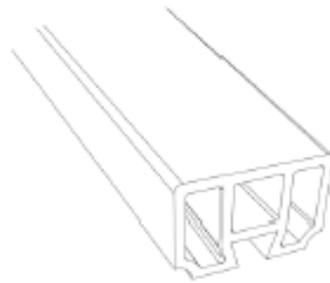


Unit m m

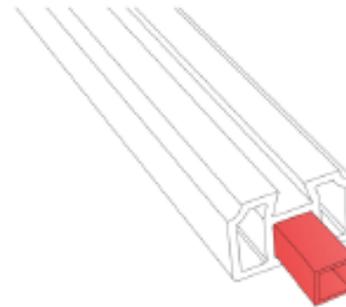




120*120*1000mm
Post



100*66*1480mm
Top Rail



100*66*1480mm
Bottom Rail



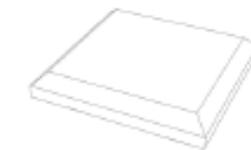
72*44*718mm
Baluster



32*80mm
Rail connection



31*20mm
End cover



146*146mm
WPC Post Cap & Skirt



72*12*120
Bottom Rail support



140*140*500mm
Steel holder

DEKKA makes installing a railing kit simple by providing ready made 1480mm long sections of handrail and bottom rail, complete with balusters and connectors.

The following installation guide is based on a standard railing section as on **PAGE 3,**

You may need to adjust the dimensions according to your site situation.

Important Information

Please note that no opening is permitted to be more than 100mm or 10cm, this includes the spaces in-between spindles and the gap between the bottom rail and the surface of the deck.

Post Fixing Method

Your next step is to choose your method of installation of the composite wood posts for your railing kit.

Surface mount

Surface mount your posts after your deck has been layed using the composite wood company steel post mounts, these are placed on top of the decking board and fixed directly through to your sub frame.

The surface mounting method is shown later on in this guide

Through post system

In this system you will install your composite wood posts before laying the decking boards. The composite wood posts are built directly into the sub-frame and securely fixed using coach bolts or screws in a couple of directions. A sub-frame of double beam construction provides the best composite wood post housing

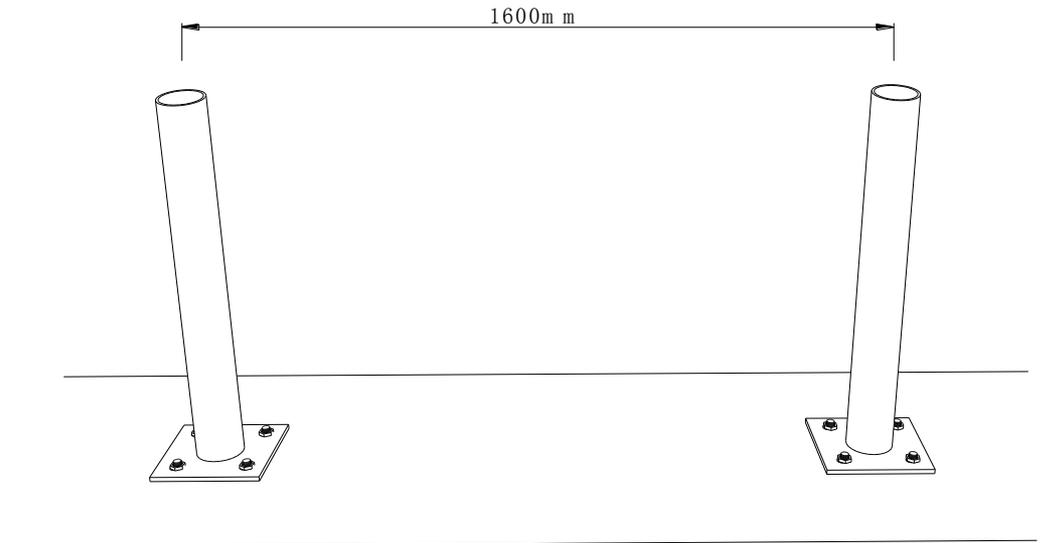
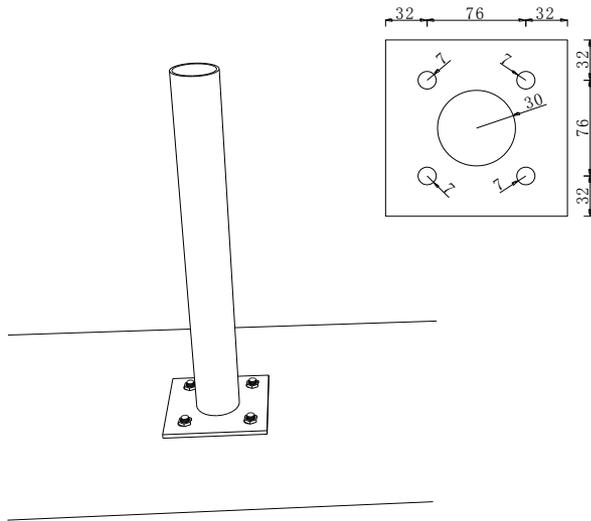


Alternatively

The versatility of the composite wood post means that each composite wood post can be used structurally and concreted directly into the ground with a bevelled edge being applied to the concrete to aid in water run off.

Whilst the top section of the post above the deck can be used as part of the railing system.



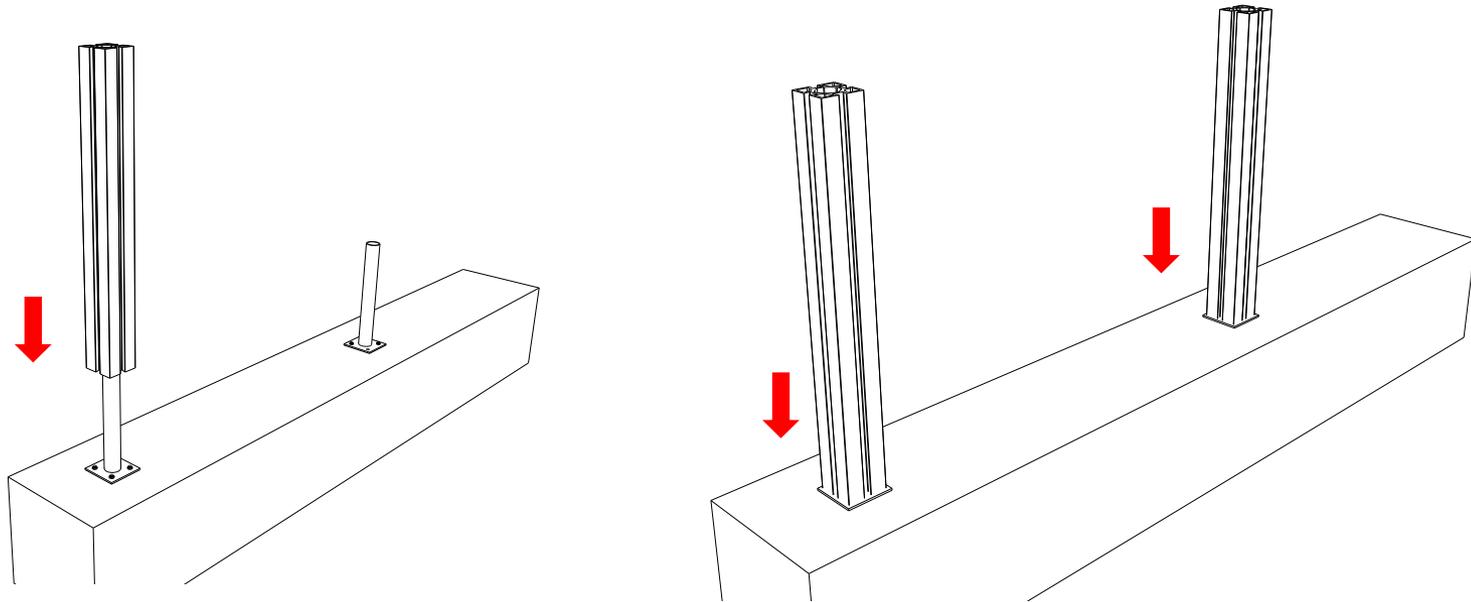


Step 1:

Put steel post mounts in position and Make sure that they are vertical and that the distance between the centres of the posts is 1600mm , then mark the hole positions and drill through the deck board with a 10mm drill bit or if being fixed to concrete the expansion bolts supplied require a 14mm hole

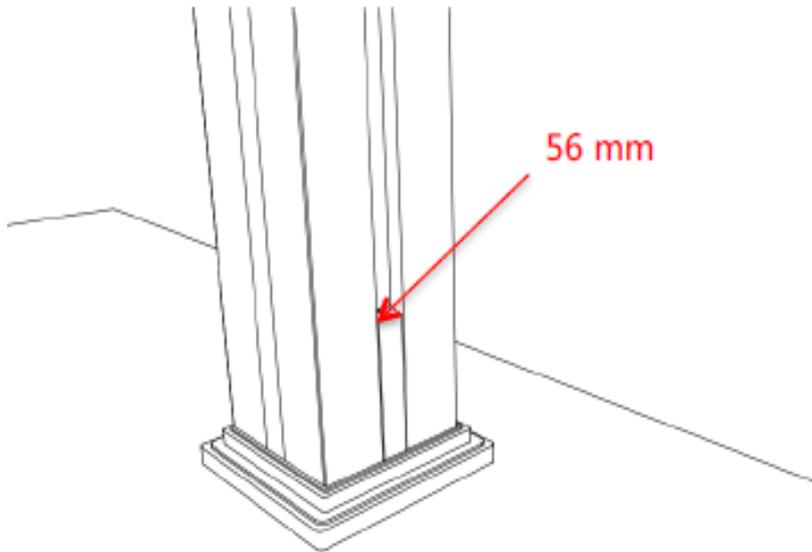
Step 2:

screw posts mounts down using a suitable fixing and check that there is no movement in the steel post mount and that they are vertical.



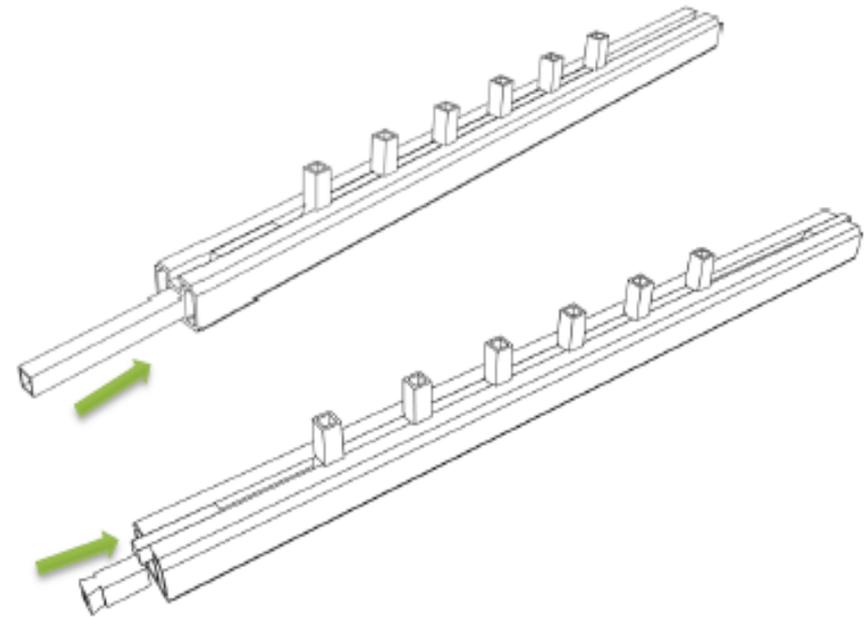
Step 3:

Slide the composite wood posts down onto the steel post mounts and again check that they are level



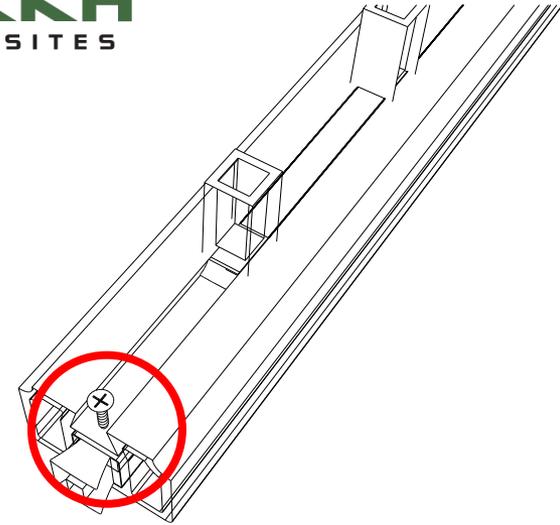
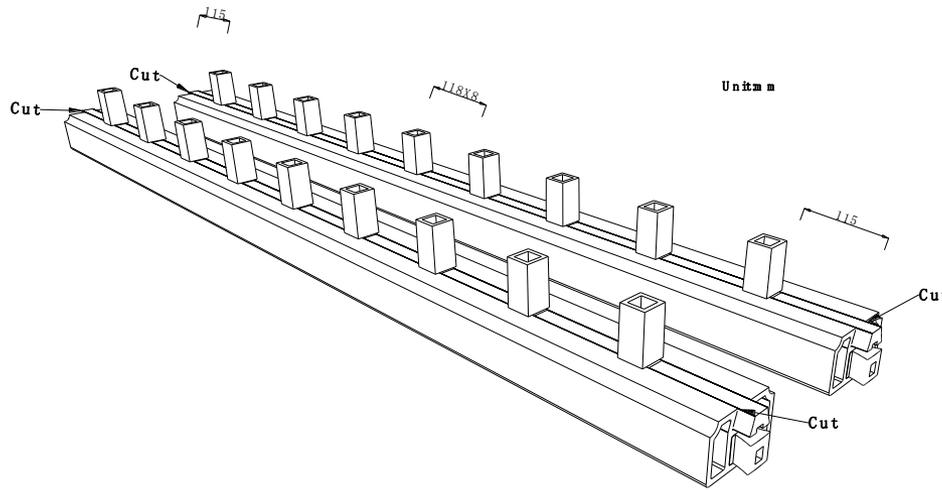
Step 4:

Cut a small piece of end cover to 56mm and slip it into the channel from the top to the bottom so that the height of the bottom rail can be set. Please note that cutting at 56mm will give you an overall height of 50mm as 6mm sits behind the bottom rail section. Next place the post skirt over the post straight down to the bottom.



Step 5:

Check that the steel reinforcing bar is located inside the bottom rail, this will be in the square profile hole then insert the rail connectors in either side.



Step 6:

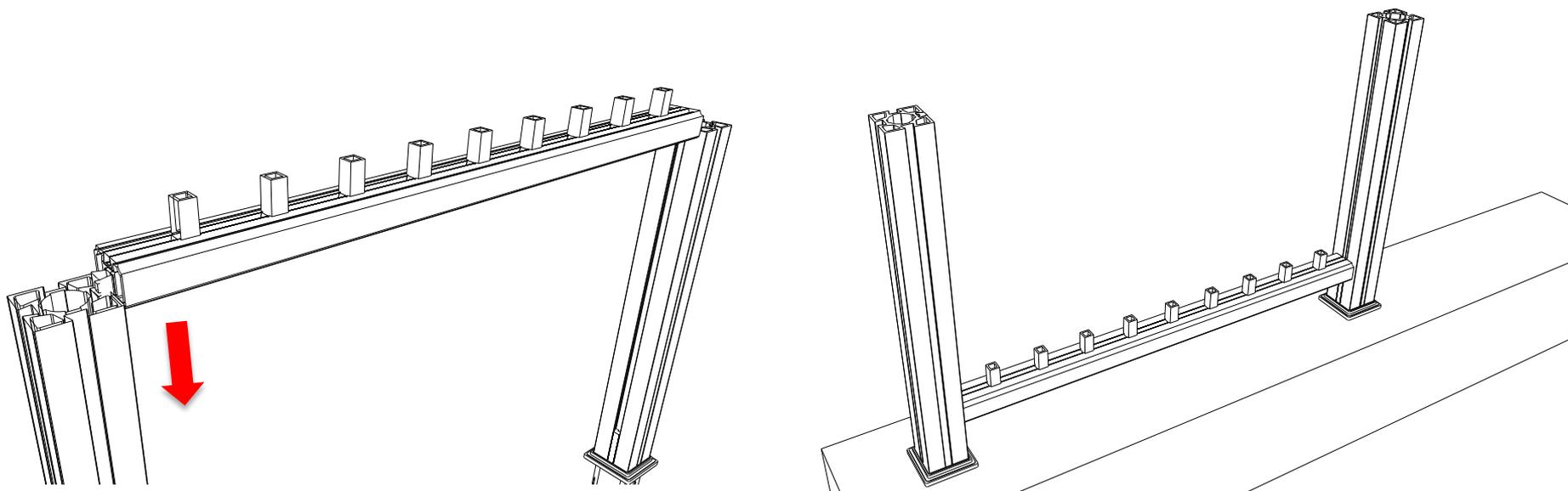
Slide in the end cover pieces (standard and already cut) into the channel of bottom rail , slip a rail connector into the channel, then repeat.

Fix a screw as shown in the picture **before** you insert the last piece of end cover at both ends this is to make sure the rail connector is securely fixed into the rail. This is done by drilling a pilot hole 30mm in and central to the channel and that the connector is fully in is important before screwing.

PLEASE NOTE THE PILOT HOLE MUST NOT BE BIGGER THAN TH SCREW

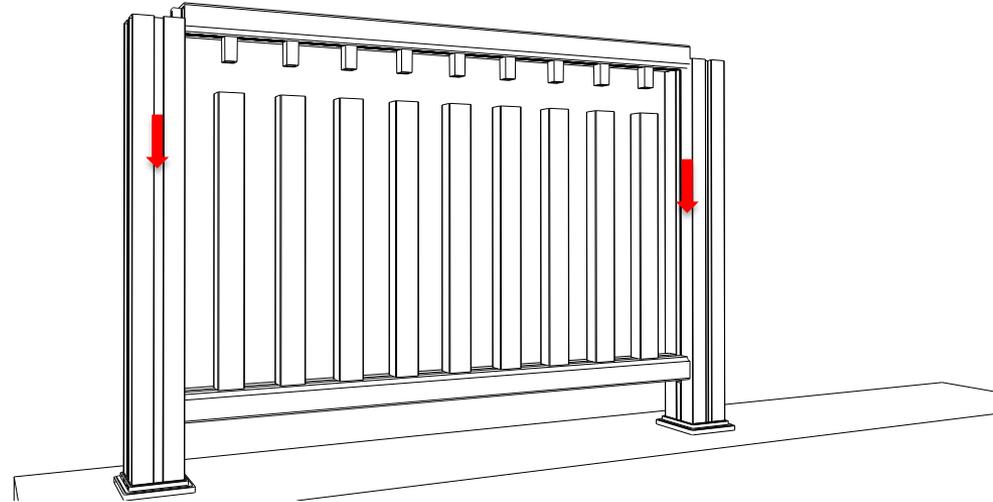
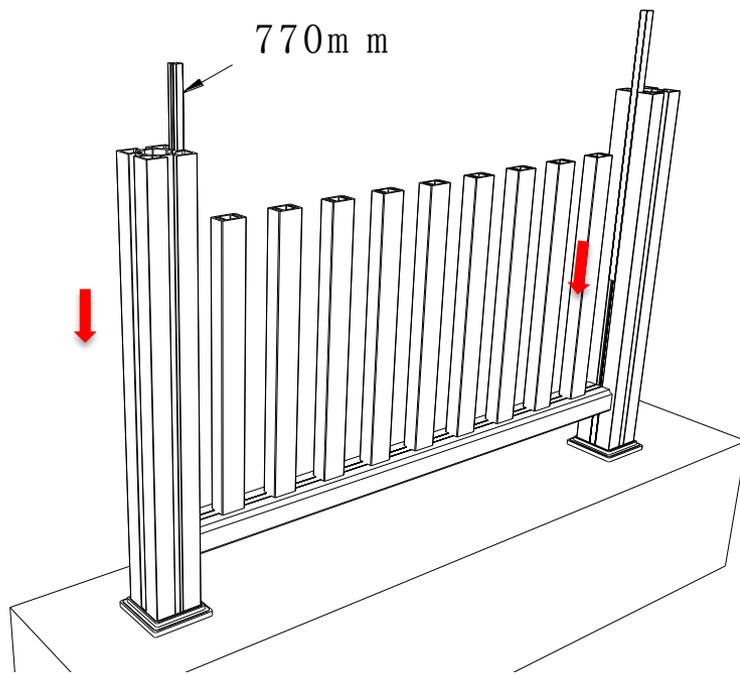
Please note that the end cover pieces at both ends may be a little bit long and may need to be cut shorter to fit the length of rail and make sure the stability of the whole. The trimmed down pieces must not stick out past the end of the rail as it will stop the rail being slid into the posts.

* **NOTE:** for 1480 standard rail section, we need 9 connector, if it's in different dimension, please always try to use standard end cover piece and only cut 2 pieces of end cover in the ends.



Step 7 :

Slide the finished bottom rail into the channels in the posts, then whilst keeping horizontal slide down to the bottom until the rail rests fully on the end covers that were placed in the channels earlier.

**Step 8 :**

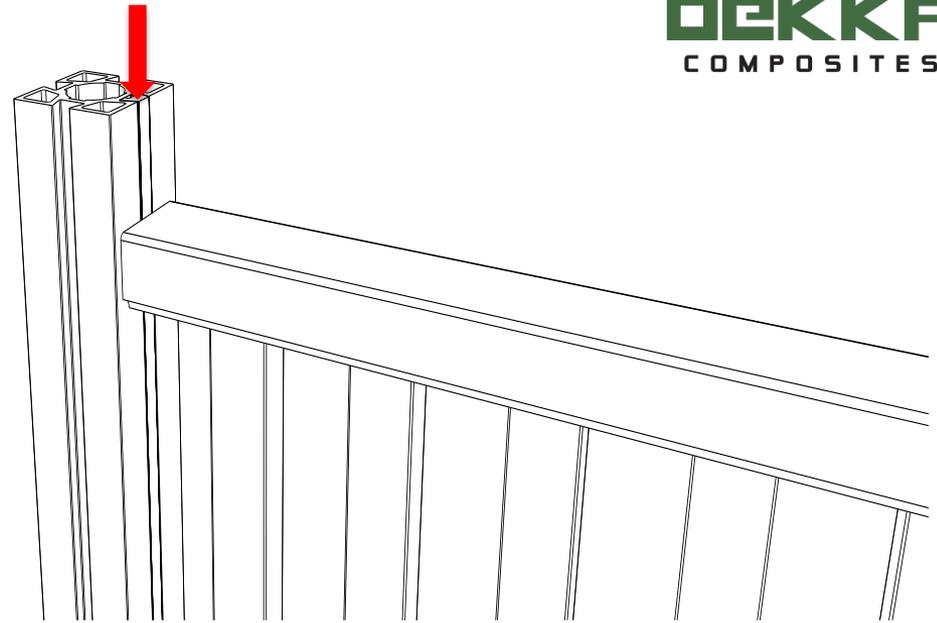
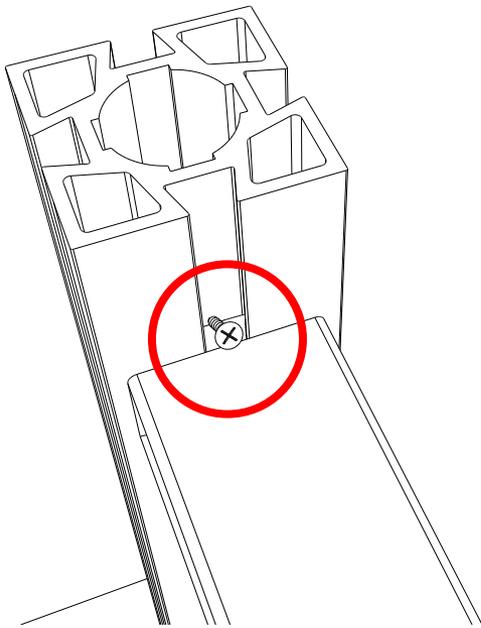
Make up the top rail section as per bottom rail but **without** the reinforcing steel and the bottom rail support adaptor

Position 9 pieces of baluster to the connectors.

Inert a long piece of end cover into the channel to each post. (this needs to be cut to the standard length of 770mm, 50mm of this is located behind the rails.)

Next slide the handrail into the post channels and take care to put each connector into its balustrade.

* NOTE: You can choose both wide side face or narrow face of baluster to face outwards as the connection hole is a standard square.



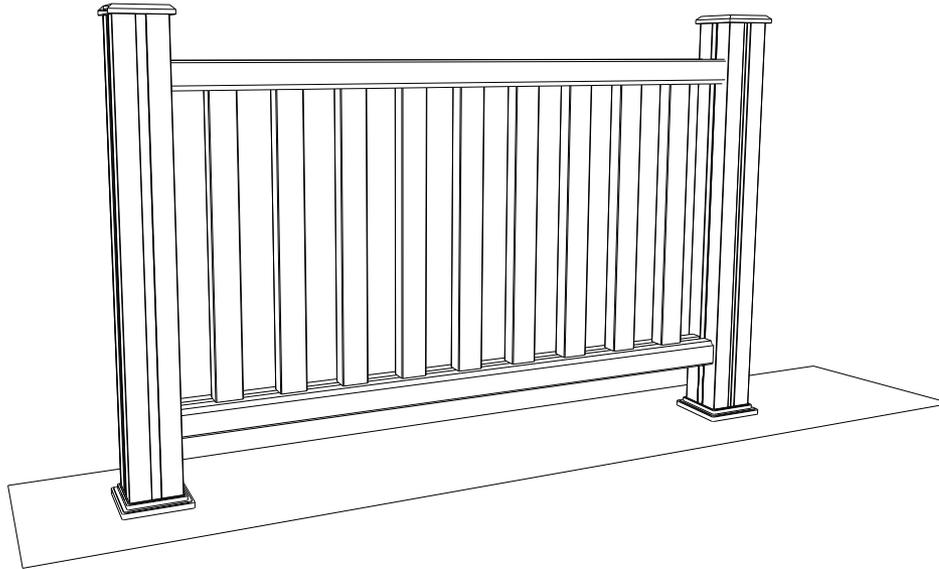
Step 9:

Screwing with certain angle as shown in the picture, the screw is preferred laying on the rail connector to the post.

This is to position the top rail to the post and make sure the stability of the whole system.

step 10:

Slide a small 96mm piece of end cover into the channel above the handrail and repeat process on other side of the rail.



Step 14:

place the composite wood
post caps on top of the
finished posts.

DEKKA Composites
**hold no responsibility for installations that are
not carried out to instructions provided or inferior installations.**