Whiteriver Composite Decking

FITTING INSTRUCTIONS & MAINTENANCE GUIDE

Planning your deck

The first thing you need to do is to decide where you are going to locate your deck. You should consider the following:

- Do you want the deck to be where you will get the most sun?
- Will you have privacy?
- Have you a nice view?
- Will you be affected by the wind?
- Will it be attached to your home?
- Can you access your kitchen or living area from the deck area?
- Also consider the position of manholes and where they are in relation to your planned position for the Deck.

Tools: For installing a Whiteriver composite deck you can use the same tools that you use for woodworking. It is recommended that you use a carbide-tipped saw and also a pozi-headbit for screws

Getting Started

Strip the topsoil off where you intend to erect your deck. Lay ground cover over the area and cover it with gravel. Make sure you have adequate drainage around your deck. All sub constructions should have slight fall (10mm per metre) to allow water drain off the deck, the deck boards should also run in same direction as fall. All sub constructions should be ventilated.

If you are placing the deck at ground level, the bearers must be supported by concrete to avoid any ground sinking. It is very important that the joists are treated before you start laying the deck. You can use 4" x 2" or 6" x 2" timber as a joist material. Concrete blocks may be used under the joists for extra height. For domestic decks, we recommend using 16" (400mm) centres and for commercial use we recommend 12" centres (300mm).

Fixing the Deck Boards

Board ends should not over hang the joist by more than 40mm. When butting boards end to end, this must be done over double width bearer joist. Ensure both boards are fixed down at least 20mm in from their edge.

The first board should be fixed by fixing a 3.2mm stainless steel screw at 55 degrees angle (see Diagram 1.1). This should be screw fixed at every joist. Before fixing the screw, it is necessary to pre-drill a hole 0.75mm bigger than the screw.

Once the first board is secure, you will now need to fit a clip into the groove in the side of the board (putting the larger end of the clip upwards). Use the supplied stainless steel screw to fix the deck board to the joist through the predrilled hole in the clip. There needs to be a clip fixed at every joist.

Next, close one side of the second board to the first line of clips. You can now continue on and insert a second line of clips and secure them using the clip and screw as above. When you come to the last row of boards, it should be fixed the same way as the first board.

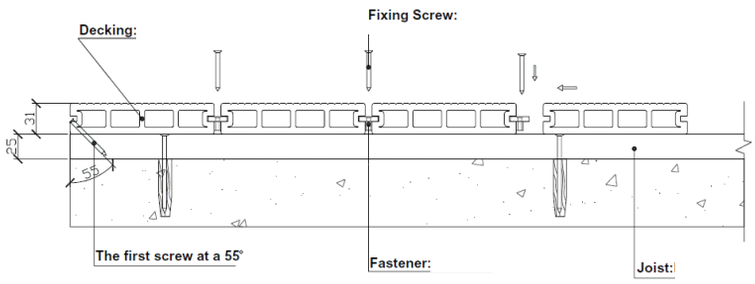

DIAGRAM 1.1.

By using the spacing (provided by the clip) between each board and 40cm spaces between joists, you will require 7.1 lineal metres of 135mm Montana hollow decking / 6.62 lineal metres of Arizona hollow decking / 6.85 lineal metres of 140mm Nevada solid decking for every square metre to be covered. You will also need 20 clips per square metre. Solid boards can be fixed with screws instead of clips, if you are using screws to fix in the decking instead of clips we recommend that you pre-drill the deck and that you first drill a hole larger than the screw to allow for the decking to expand. When using hollow decking, exposed ends should be sealed with end caps, these can be glued in with silicone for additional support. (see diagram 1.2 below)

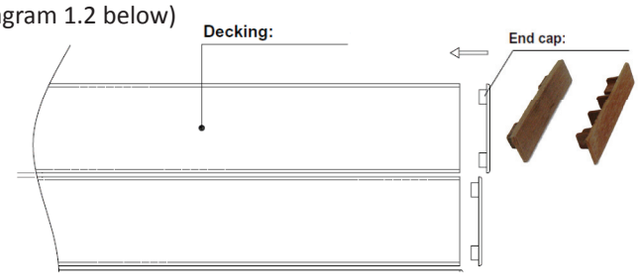

DIAGRAM 1.2.

Hollow Decking Surface water treatment:

You should drill a 5mm hole on the bottom of the deck boards to allow water to drain from the hollow core. See diagram 1.3 below as to where the holes should be drilled

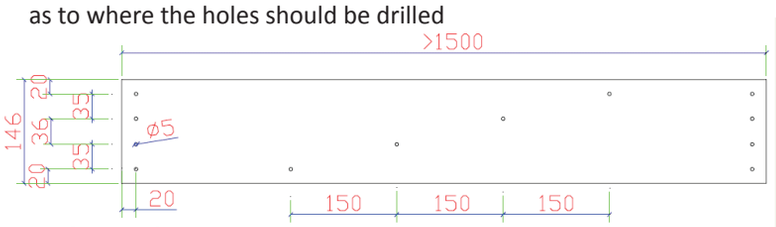

DIAGRAM 1.3

Warning!!! Expansion Gap required between board ends

There should be an expansion gap at the butt ends of each board. This is to allow for expansion in the event of extreme changes of temperature from the norm. Decking can expand by 0.5% in very warm weather so you should allow approx. 5mm at the board ends (See diagram 1.4). A minimum of 10mm should be left where the deck meets any obstruction e.g. wall.

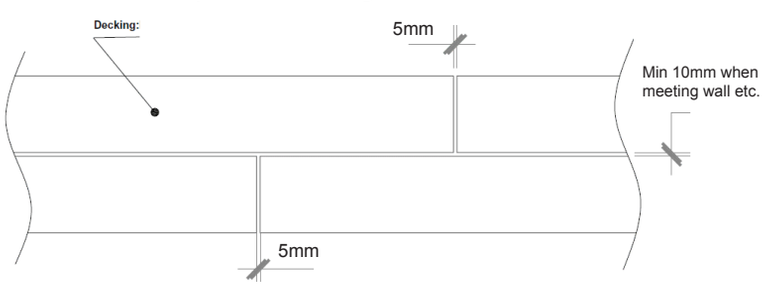

Diagram 1.4

Fitting Posts & Railings

NOTE: IT IS IMPORTANT THAT COMPOSITE MATERIAL IS PRE-DRILLED PRIOR TO INSTALLATION OF ACCESSORIES.

Step 1

As the diagram 2.1 below shows, firstly use expansile bolts to fix the Post Bracket in the right position of measured posts on the concrete ground or in case of timber joists, use coach screws suitable for outdoor use. **We recommend that the spacing between two posts should be not more than 1800mm**, this distance is based on the specific spacing between two Spindles. (The standard spacing between Spindles is 100mm to 150mm) Insert the posts into the Post Bracket, then using fixing screws, fix the posts through holes of fixing iron on the Post Bracket;

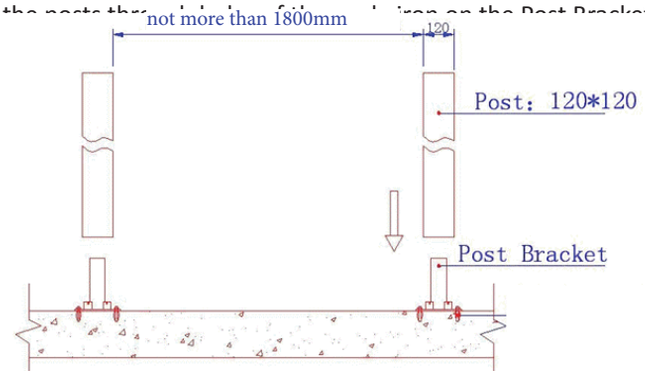

Diagram 2.1

Step 2

After fixing the posts, please insert the Post Flange to the bottom of the posts; then mark the position for the Top and Bottom Handrail on each posts. Fix the Handrail Bracket on the marked position on the post, just as diagram 2.2 below shows. We recommend that the

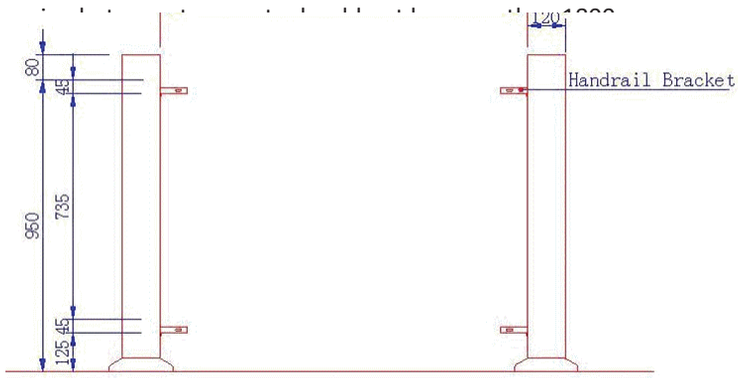

Diagram 2.2

Step 3

As diagram 2.3 below shows: fix the Spindle Bracket on both the Top and Bottom Handrail - the fixing spacing is based on the standard spindle spacing of 100mm or 150mm. Install and fix the Top and bottom Handrail to the Handrail Bracket.

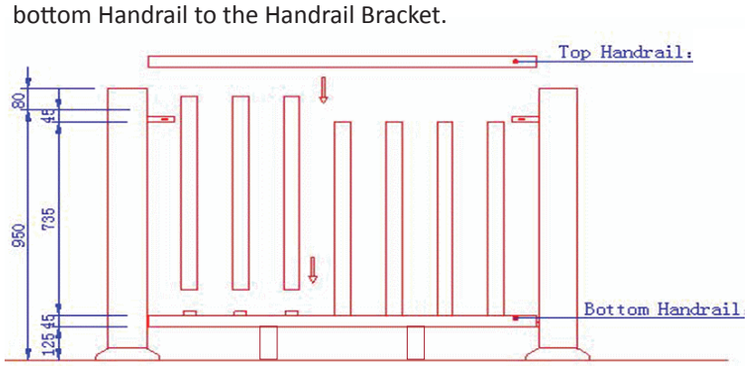

Diagram 2.3

Step 4

Please install minimum 2 pieces of spindles below the Bottom Handrail according the installation of spindles in diagram 2.4. It will avoid the sag by natural gravity.

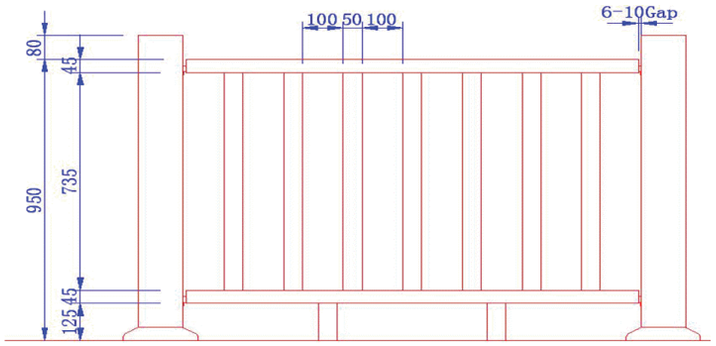

Diagram 2.4

Step 5

Install the Post Cap on the top of posts. Now you are finished the installation of the Post and Handrail system. Please consult the finished drawing of Post and Handrail system as shown in diagram 2.5 below.

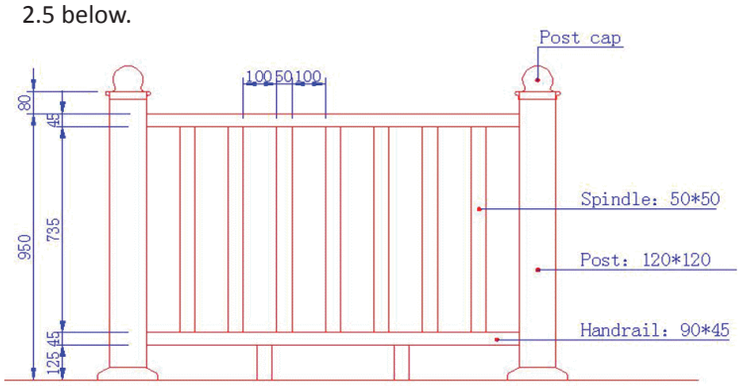

Diagram 2.5

Deck Finishing

When you have finished securing all the deck boards and there is an overhang use a chalk line to mark the board and cut the excess with a circular saw. You can fix the composite angle by using stainless steel screws every 40cm. Screw the angle to the deck board. Pre-drilling is required, do not nail.

Care for your composite Deck

- The deck should be washed with water and soap
- A power washer can be used (max 80 bars)
- If there is oil or grease on your deck use a degreasing agent. If necessary you can use sandpaper, sand with the grain. Please note that if sanding, there will be some colour difference initially but this will blend in over time
- Do not use solvent based cleaners on your deck
- Water stains can appear due to uneven moisture levels, these stains will disappear under UV. Rinse evenly with water and leave to dry naturally

If you need any further assistance in the fitting of your Whiteriver Composite deck, please do not hesitate in contacting your local stockist for more information