## **ICOMPOSITE**



B COMPOSITE BALUSTRADE INSTALLATION GUIDE



### COMPOSITE BALUSTRADE INSTALLATION 🗘

### WELCOME TO

### **OUR INSTALLATION GUIDE**

Our most versatile range of balustrades is designed to complement our composite decking range. Unlike their wood counterparts, composite decking balustrades are designed to be safe and sturdy. Moreover, they are both eco-friendly and stylish – the ideal finishing touch to any outdoor area.

Our balustrade system is made from a wood plastic composite, and is available in the following colours:

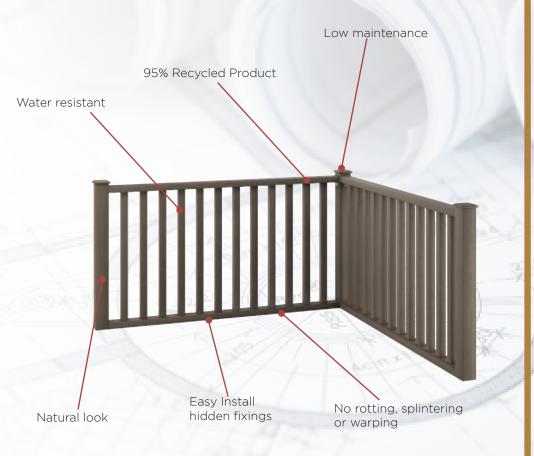
Charcoal / Graphite / Walnut / Ash / Autumn

# CLASS C FIRE FRATING LOW MAINTENANCE NO ROTTING, SPLINTERING OR WARPING 20 20-YEAR GUARANTEE QUICK INSTALLATION TIME

**ENVIRONMENTALLY FRIENDLY** 

### The Balustrade

The organic timber effect of the posts and spindles keeps the clear and classic look of decking balustrades while the composite fibres and the latest technology guarantees there is no splitting, splintering, or rotting. This makes the balustrades a secure and durable option for any outdoor area.

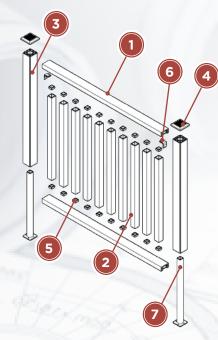


- Each balustrade is 1640 wide x 970mm high
- Please note that images are used for illustration purposes only.
   The actual product may slightly vary from the images supplied.

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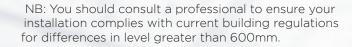
### Components







- 1. Handrail -1640 x 93 x 45mm ECO09B
- 2. Spindle -900 x 54 x 54mm ECO11B
- 3. Newel Post -2400 x 95 x 95mm ECO07B
- 4. Post Cap 115 x 115 x 50mm ECO10C
- 5. Spindle Inserts -37.5 x 37.5 x 15mm ECO09SI
- 6. Bolt Down Support -700 x 95 x 95mm ECO09BD
- 7. L-Brackets 50 x 50 x 40mm ECO09LB





Whilst our composite materials are highly durable we do recommend you follow guidelines for storage and handling.

Materials should be stored under cover in shade, kept dry and protected from weather until ready to install. Products should not be stored outside and / or covered with plastic sheeting. All composite products should be stored supported off the ground at 500mm intervals on a flat surface.

Allow the composite fencing to acclimatise for a minimum of 3 days prior to installation.



### Handling

Composite balustrades should be lifted and set down with care to avoid damage. Do not slide components over one another. When moving, avoid sliding or dragging any equipment across the components to prevent damaging the boards.

### Safety

Personal protection equipment (PPE) should be worn at all times when installing composite balustrades.

We recommend to wear gloves, protective eye wear, and a dust mask.







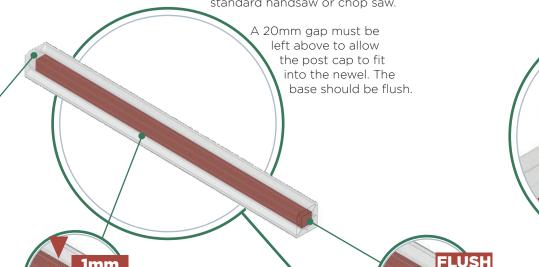
### **FITTING OPTION A**

**20mm** 

1mm

### **FIXING TO SUBSTRUCTURE**

**STEP 1a** The newel post should first be cut to appropriate length, using a standard handsaw or chop saw.



STEP 2a When fixing newel to the decking substructure, the newel will need to be 'boxed in' using additional joist sections to ensure adequate support. Once in

> position, check the position of the newel, and check it is square. The newel can then be fixed to the substructure using an exterior grade M8 dome head coach bolt. Additional exterior screws should be fixed through the substructure into each face of the newel. All fixings should be pre-drilled to minimise risk of splitting.



It is best practice to insert a piece of 44 x 44mm tanalised timber into the newel to ensure a strong, durable connection when fixing.

The timber insert should be planned to allow a minimum of 1mm expansion gap between timber insert and inner wall of newel post.

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Allow the composite balustrades to acclimatise

for a minimum of 3 days

prior to installation.



### **FITTING OPTION B**

**20mm** 

1mm



**STEP 1b** The newel post should first be cut to appropriate length, using a standard handsaw or chop saw.

A 20mm gap must be left above to allow the post cap to fit into the newel.

A 700mm gap should be left at the bottom to allow these

to be inserted.

**700mm** 

**STEP 2b** For this method, use exterior grade 7.5mm x 100mm masonry screws to fix the support through the decking boards and into the substructure

joists below (a double joist will be required around the perimeter).
All fixing holes should be pre-drilled to minimise risk of splitting. Before fitting the newel, a bead of flexible adhesive should be applied to the support to hold the newel securely in place.

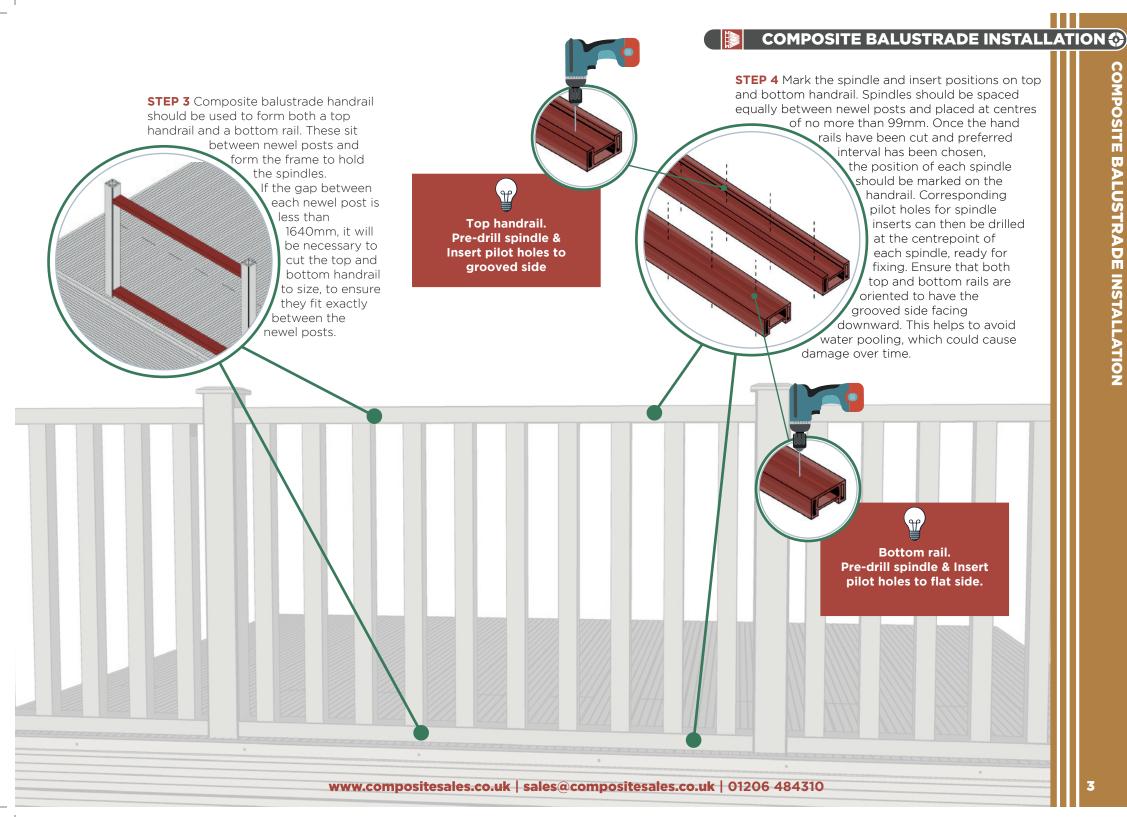


For a flush fit, the base of the newel can be filed, to miss the post support weld, as shown.

The bolt down support can also be used to fit balustrade directly on to masonry, using suitable fixings for your particular substrate.

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**Best practise:** 

All screws should have pilot holes pre-drilled to minimise the risk of splitting

Top handrail.
Spindle Inserts to grooved side

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**STEP 5** Spindle inserts can now be screwed into the top handrail using a good quality 3.5 x 25mm exterior

grade screw. Ensure spindle inserts are fitted square,

as they will determine

**STEP 6a** Before spindle inserts are fixed, the bottom handrail should be screwed down to the substructure through the deck using a 7.5mm x 100mm masonry

For best visual effect, the fixing screw should be countersunk into the

handrail, in such a position that it will be hidden by spindle insert, once this is in place.

All screws should have pilot holes pre-drilled to minimise risk of splitting.

**STEP 6b** Spindle inserts can now be screwed into the bottom rail using a good quality 3.5 x 25mm exterior grade screw. Ensure spindle

inserts are fitted square, as they will determine the orientation of the spindles.

All screws should have pilot holes pre-drilled to minimise the

risk of splitting.



Bottom rail.

Spindle Inserts to flat side

### **Best practise:**

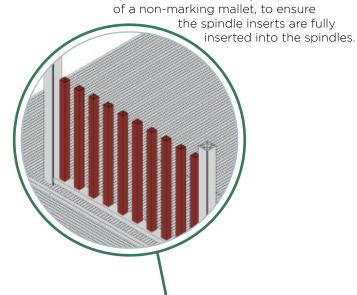
All screws should have pilot holes pre-drilled to minimise the risk of splitting

**STEP 7** L-Bracket should be positioned horizontally with the end of the handrail, and fixed using a 3.5 x 25mm exterior

grade screw. Repeat the

L-bracket installation to each end of the

top handrail.



**STEP 8** Push spindles onto the lower

spindle inserts. This may require the use

**STEP 9** Push the top handrail onto the spindles. Ensure spindle inserts are fully inserted into the spindles at the top and bottom. This may require the

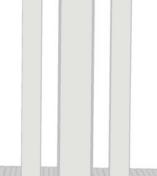
tom. This may require the use of a non-marking mallet, to ensure the spindle inserts are fully inserted into the spindles.

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f the post cap into the top of the recess in the newel post.

Repeat steps 1-9 for each section until the balustrade is complete.





**Installation complete!** 

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**STEP 10** Once the top handrail is in

inserted into the spindles, the top handrail should

be screwed to the

screws.

newel post using

exterior grade 3.5 x 25mm

position, and both the top and

bottom spindle inserts are fully