

COMPOSITE DECKING CARE GUIDE

Issue 1



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BE SAFE WHEN WORKING AT HEIGHT

Ensure you conform to the latest Work at Height Regulations. For more details, visit:

www.hse.gov.uk/work-at-height

If in doubt at any stage

Please contact our Technical Support for additional support or advice.



03301 623 685

WE WORK CLOSELY WITH ESTABLISHED AND EXPERIENCED MANUFACTURERS.

TOGETHER, WE CREATE BEAUTIFUL, SUSTAINABLE OUTDOOR PRODUCTS DESIGNED TO FIT IN WITH BUSY FAMILY LIFE.



EMBOSSED DECKING

SKU: EC-DECK-AA/AB/SLS/WB
25MM X 145MM X 3660MM

Our wood plastic composites are an innovative and environmentally friendly hybrid material. We utilise recycled plastics and reclaimed wood fibres to create a natural looking and feeling timber synthetic.

Without many of the drawbacks of hard and softwood decking. There is no need to paint or stain and it is natural to the touch. Our embossed decking board also has extremely good slip resistance in both wet and dry conditions. Fitted with a hidden clip system that controls expansion and contraction, this restricts twisting/warping and has the aesthetic benefit of no visible screws.

Dual sided
Antique ash



- ▶ 20 Year Structural Warranty
- ▶ 1.83 boards = 1 SQM
- ▶ 9.92kg per length
- ▶ EN 13501-1 Fire Class: C

PRE-INSTALLATION INFORMATION

- ▶ Eurocell hold no responsibility for installations that are not carried out to instructions provided or inferior installations.
- ▶ Failure to install in accordance to these instructions will invalidate the Product Guarantee.



TRIMS AND ACCESSORIES AVAILABLE

- ▶ 25mm x 145mm x 3660mm
- ▶ 1 length covers 3.66m
- ▶ 16.91kg per length
- ▶ EN 13501-1 Fire Class: C



Stepnose

Grooved wood grain

SKU: EC-EDGETRIM-AA/AB/SLS/WB-GR
SKU: EC-STEPNOSE-AA/AB/SLS/WB-WG

Specifically designed to add a clean bull nose step edge, this board is fixed with a start finish clip from underneath so has no visible fixings. This step nose is available in a wood grain or grooved finish. Please see installation guide for further information.

- ▶ 15mm x 145mm x 3660mm
- ▶ 1 length covers 3.66m
- ▶ 10.54kg per length
- ▶ EN 13501-1 Fire Class: C



Fascia board

SKU: EC-FASCIA-AA/AB/SLS/WB

A thinner solid version of the embossed decking board this fascia board is face fixed with a color coded screw and can be used to hide exposed timbers. This board has a wood grain finish on one side and a grooved finish on the other. Please see installation guide for further information.

- ▶ 42mm x 42mm x 3660mm
- ▶ 1 length covers 3.66m
- ▶ 2.921kg per length
- ▶ EN 13501-1 Fire Class: C

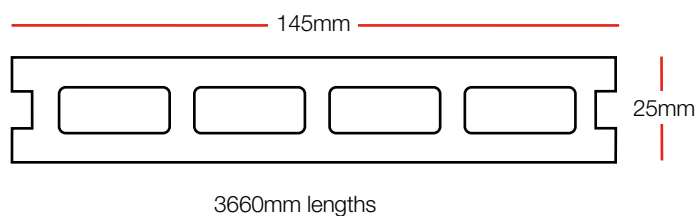


Angle trim

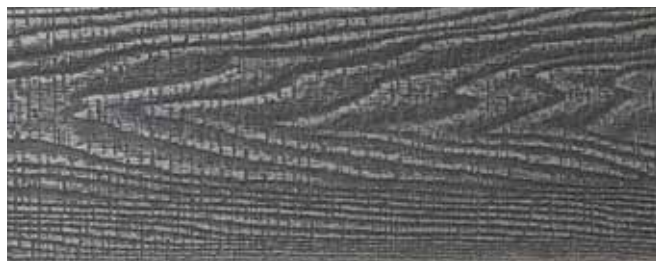
SKU: EC-EDGETRIM-AA/AB/SS/WB

This angular corner bead doubles up to hide any exposed board edges but also act as a neat picture frame style border around the finished decking area. This is particularly useful for steps where they are more pronounced preventing any tripping hazard. Please see installation guide for further information.

BOARD PROFILE



AVAILABLE IN 4 COLOURS



Antique ash

SKU:EC-DECK-AA



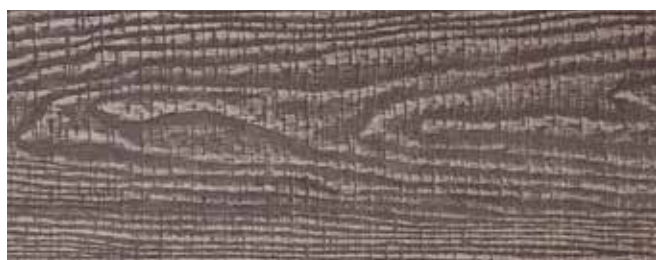
Ancient black

SKU:EC-DECK-AB



Salt lake silver

SKU:EC-DECK-SLS



Wild brown

SKU:EC-DECK-WB



Salt lake silver

CAPPED DECKING

25MM X 150MM X 2900MM/4800MM

Utilising the same wood plastic composite technology for strength and longevity as the embossed decking boards at its core. The capped decking board has an additional 1mm layer of HDPE capping which enables this board to be extremely durable against scratching staining and even resistance to UV fading. This board is reversible and has two finishes; wood grain and grooved and is available in 6 beautiful natural colours.

Dual sided
Midnight



- ▶ 25 Year Inclusive Warranty
- ▶ 2.23 boards @ 2.9m = 1 SQM
1.4 boards @4.8m = 1 SQM
- ▶ 8.7kg per 2.9m/13.4kg per 4.8m
- ▶ EN 13501-1 Fire Class: E

TRIMS AND ACCESSORIES AVAILABLE

Fascia board

- ▶ 10mm x 150mm x 2900mm
- ▶ 1 length covers 2.9m
- ▶ Weight: 10.54kg
- ▶ EN 13501-1 Fire Class: E

A thinner solid version of the capped decking board this fascia board is face fixed with a colour coded screw and can be used to hide exposed timbers and clad the risers of steps. This board has a wood grain finish on one side and a grooved finish on the other.

Please see installation guide for further information.



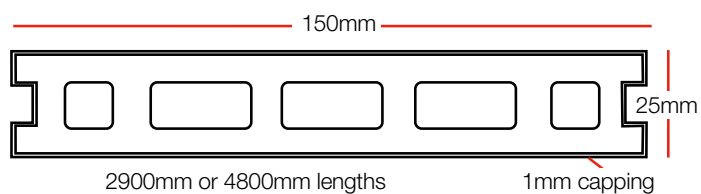
Angle trim

- ▶ 42mm x 42mm x 2900mm
- ▶ 1 length covers 2.9m
- ▶ Weight: 2.92Kg
- ▶ EN 13501-1 Fire Class: E

This angular corner bead doubles up to hide any exposed board edges but also act as a neat picture frame style border around the finished decking area. This is particularly useful for steps where they are more pronounced minimising any tripping hazard.



BOARD PROFILE



AVAILABLE IN 6 COLOURS



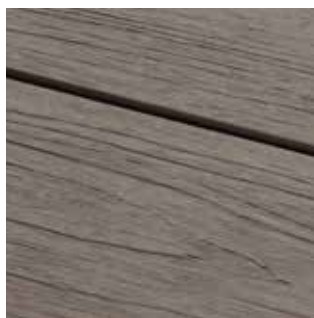
Flint
SKU: ECO16FL



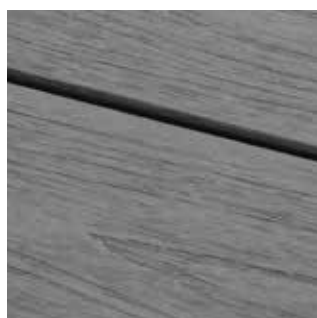
Silver birch
SKU: ECO16SB



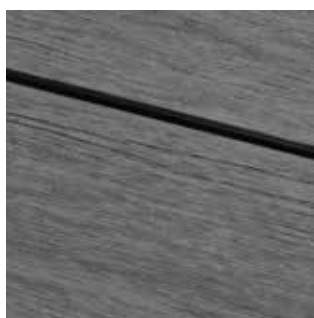
Spiced oak
SKU: ECO16SO



Havana
SKU: ECO16HA



Argent
SKU: ECO16AR



Midnight
SKU: ECO16MD



Midnight and Silver birch

WHICH BOARD IS RIGHT FOR YOU?

	Embossed	Capped
Low maintenance	★★★★★	★★★★★
Anti-slip	★★★★★	★★★★★
Scratch & stain resistance	★★★★★	★★★★★
Fire rating en-13501	CLASS C	CLASS E
UV stability	★★★★★	★★★★★
Price	£££££	£££££
Warranty (each star represents 5 years)	★★★★★	★★★★★

PRE-INSTALLATION INFORMATION

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SUSTAINABILITY

The world we live and work in is ever changing in response to environmental policy. We are passionate about supplying products that are functional, look good and offer the best sustainability as a construction material. Our wood plastic composites are made up of recycled materials, utilise low or renewable energy in manufacturing, offer stability, longevity and can ultimately be recycled again and again.

Reducing landfill by recycling plastics

HDPE is a thermoplastic made from petroleum. As one of the most versatile plastic materials available, it is overused in a wide variety of applications, including plastic bottles which typically end up in landfill. Our composite boards use recycled waste HDPE reducing the negative impact on the environment.

Reducing deforestation with reclaimed wood fibres

The wood element of our composite boards are typically offcuts from joiners shops and sustainably sourced timber.



WHAT TO EXPECT

Batching

The complexity of WPC extrusion results in natural colour variation from batch to batch. Although we use master plaques against new batches to maintain consistency you will always get some small variances due to machinery and our suppliers own raw material batches. Please take this into consideration when ordering your goods.

Colour stability







Although wood plastic composites have a much greater resistance to fading than 100% timber products exposure to sunlight, weather and atmospheric conditions do cause coloured surfaces to gradually fade over time. Our Embossed boards are 1st generation wpcs, made up of natural wood fibres which contain organic lignin - the timber compound that greys with exposure to UV.

- ▶ Lighter embossed colours have very little dye in making the lignin greying visible. This is normal and can be expected of the product and settles after an initial period.
- ▶ Darker colours which contain larger amounts of dye do not show this greying.
- ▶ The capped decking range has virtually no lignin present in the exposed surface so has a very high resistance to colour fade.

Should a composite product experience extreme fading due to the use of a harsh chemical cleaner or bleach this is something that isn't warranted. We advise only using water, dish soap and for difficult stains granulated clothing detergent to lift grease like stains.

Disclaimer

These images show the change in colour and the relative intensity of the woodgrain effects upon different colours with exposure to UV over time.

New	6 months	3 years
Embossed		
		
Capped		
		

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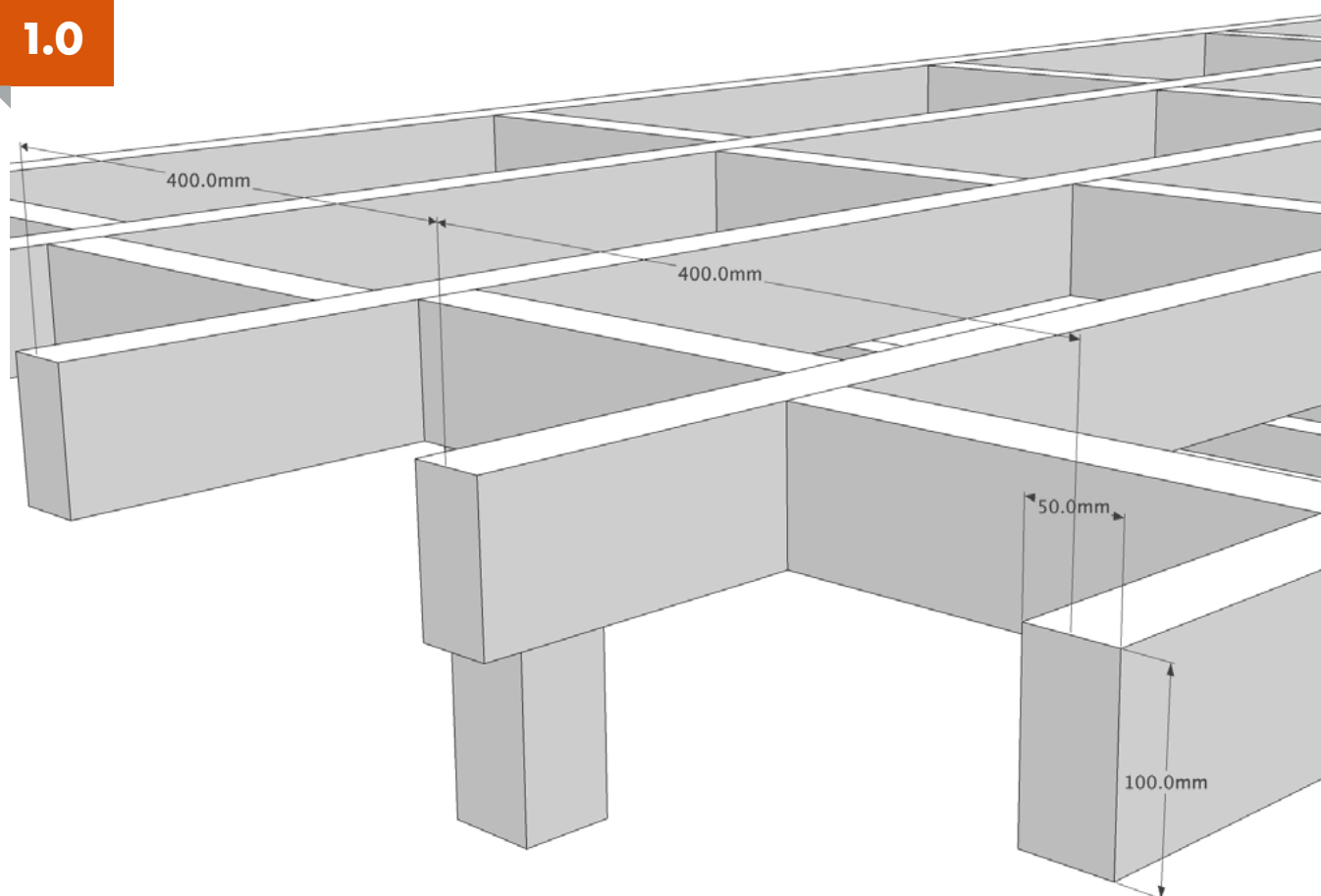
DECKING FITTING INSTRUCTIONS

1. PREPARING THE SUBSTRUCTURE

Joists should be fixed to a secure post in a concrete foundation or similar. It is the contractors responsibility before fitting to ensure the frame is adequately prepared. Decking can be fixed to pressure treated softwood timber joists (Grade C16 - EN14081 or similar) or composite / aluminium joists depending on design requirements.

Joists should be fixed into position at 400mm centres using suitable A4 stainless steel countersunk wood/ masonry screws. All joists need to be fixed in a minimum of 3 places.

1.0



2. STARTER CLIPS

2.0



Once you have determined the location and orientation of the first decking board, you are ready to install the first starter clip (SKU: EC-STCLIP). Align the clip to the end and centre of the joist, pre-drill, and screw the starter clip in place using the starter clip screw.

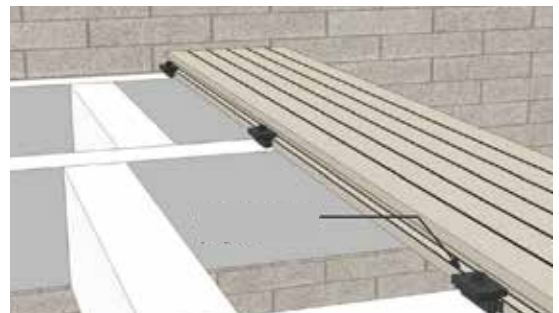
Take the first board and slide it into the starter clip using the grooves in the side of the board.

It is the same principle to finish. However where board ends are enclosed between two walls this clip can not be used.

3.0 3. USING THE CLIP SYSTEM

The main decking area must be installed using the special T Clips provided (SKU: EC-PECLIP). Secure the first board in place by sliding the Clips into the side groove on the decking board and part screw the T-Clip screw every 400mm into the joist.

Do not fully screw the T-Clips in place.



4.0

4. LAYING THE REST OF THE DECK

The main decking area must be installed using the special T Clips provided (SKU: EC-PECLIP). Secure the first board in place by sliding the Clips into the side groove on the decking board and part screw the T-Clip screw every 400mm into the joist.

Do not fully screw the T-Clips in place.

Note - We supply T-Clips with a dedicated screw drill bit. If you are using a drill to install the boards, please ensure you use this. Also take care to ensure the drill chuck does not come in contact with the boards as this may cause damage.

For full installation instructions scan the code

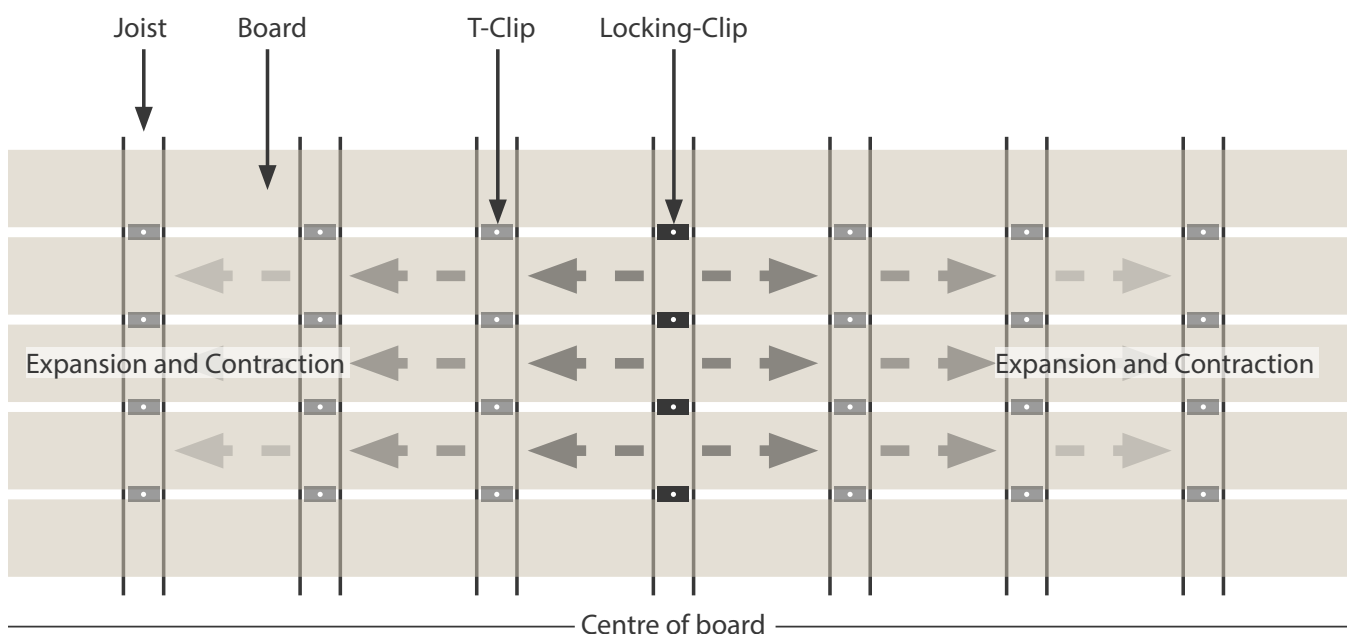
<https://www.eurocell.co.uk/how-to-fit-composite-decking>



INSTALLATION CONSIDERATIONS

CONTROLLING AND DIRECTING MOVEMENT

Like timber, wood plastic composites move with temperature change. This is why we utilise the a clip fixing system that allows boards to move without buckling. There will also be applications where expansion needs to be controlled in a particular direction. This is why we also offer a Locking clip (**SKU: EC-LOCKCLIP**). This is a similar profile to the T-Clip but with serrated teeth which lock the board in place. This ensures even expansion or contraction during hot or cold weather. One Locking clip can be placed to the center of each board where it hits the sub-frame. This will allow for controlled and even expansion and contraction across the board length as shown in the diagram.



Note - As a product that contains both timber and wood, composite decking is subject to movement with temperature change. The movement is 1mm per 10°C in temperature change of the product, not air temperature.

Length (Metres)

Installation Temperature (°C)		1	2.44	2.8	3	3.66	3.9	4	4.88	5.4	Gap (mm)
	-10	2.4	5.9	6.7	7.2	8.8	9.4	9.6	11.7	13.0	
	-5	2.2	5.4	6.2	6.6	8.1	8.6	8.8	10.7	11.9	
	0	2.0	4.9	5.6	6.0	7.3	7.8	8.0	9.8	10.8	
	5	1.8	4.4	5.0	5.4	6.6	7.0	7.2	8.8	9.7	
	10	1.6	3.9	4.5	4.8	5.9	6.2	6.4	7.8	8.6	
	15	1.4	3.4	3.9	4.2	5.1	5.5	5.6	6.8	7.6	
	20	1.2	2.9	3.4	3.6	4.4	4.7	4.8	5.9	6.5	
	25	1.0	2.4	2.8	3.0	3.7	3.9	4.0	4.9	5.4	
	30	0.8	2.0	2.2	2.4	2.9	3.1	3.2	3.9	4.3	
	35	0.6	1.5	1.7	1.8	2.2	2.3	2.4	2.9	3.2	
	40	0.4	1.0	1.1	1.2	1.5	1.6	1.6	2.0	2.2	

INSTALLING BOARDS END TO END

Where a decking board is to be laid end to end with another, a 2/3mm gap is to be left between the boards (Gap depends on the temperature at the time of install). In direct sunlight, darker composites will reach higher temperatures than lighter colours. Please take into consideration the board temperature when laying. If particularly warm these may need tighter gaps when installation.

Decking boards meeting end to end should be supported by sub-frame joists positioned 20mm part as shown above. This allows the ends of the decking boards to be supported regardless of movement, whilst also allowing water to drain freely between the ends of the boards; preventing standing water.



BALUSTRADE

SAFETY

The most significant benefit of adding a balustrade to any decking area is safety. Even when only raised off the ground by a few inches this poses a potential hazard. Having a barrier minimises the possibilities of anyone falling off and injuring themselves.

Our carefully considered system is developed to ensure the same low maintenance as our composite decking ranges and is available in 3 colours.

WHATS IN THE KIT?

Part 1 - SKU: EC-BALUSTRADE SMP

- ▶ 2 no: Handrail 45x93x1800mm
- ▶ 10 no: Spindles 54x54x900mm
- ▶ 20 no: Spindle inserts
- ▶ 2 no: Handrail L brackets

Part 2A - fix through the frame – SKU: EC-BALUSTRADE

Frame fix post 2.4m with Cap and fixings

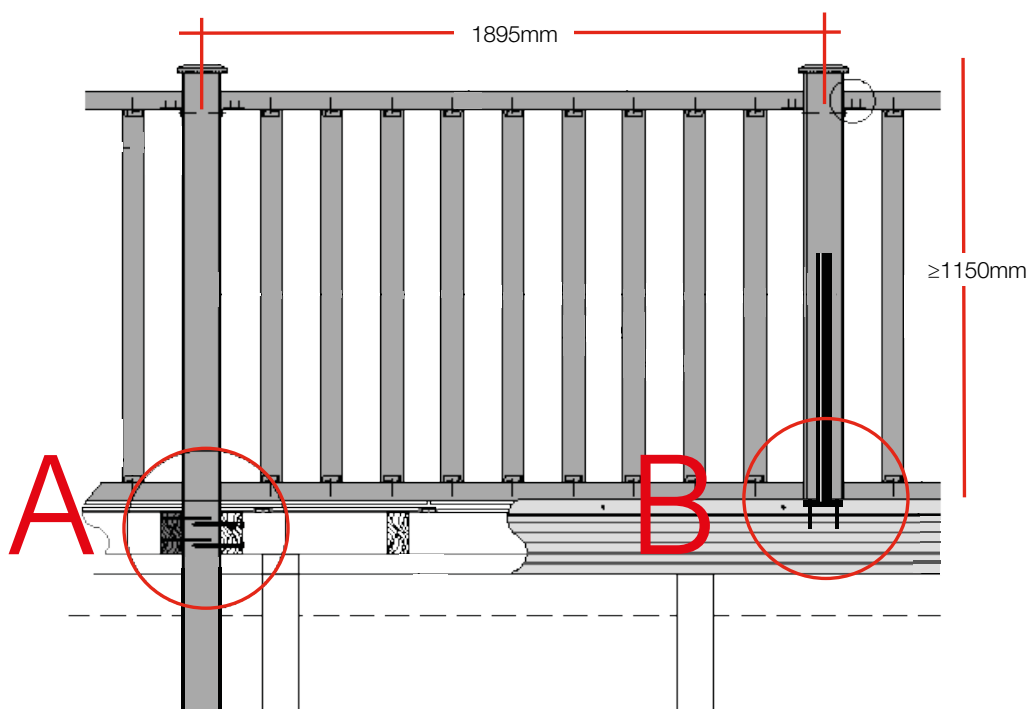
- ▶ 1 no: Newel Post 95x95 x 2400mm
- ▶ 1 no: Post Cap

OR

Part 2B - fix on top of frame – SKU: EC-BALUSTRADE

Bolt down post 1.15m Inc Bracket Cap & fixings

- ▶ 1 no: Newel Post 95x95x1150mm
- ▶ 1 no: Post cap
- ▶ 1 no: Bolt Down Support



CLEANING AND MAINTENANCE

All composite products are low maintenance but not no maintenance. Decking boards will require periodic maintenance to remove the build up of dirt and debris and keep them looking immaculate year on year. We recommend the decking is cleaned once or twice a year using either:

- ▶ A pressure cleaner (Jet wash) no higher than 1500 psi with a fan shaped beam at a distance of at least 20cm in a lengthwise direction
- ▶ Scrubbing brush with a all-purpose cleaner (dish soap) and water.

Our capped decking range has a higher resistance to staining as the board surface is less porous due to its 1mm plastic capping. We still advise to clean and maintain the decking boards in the same manner to ensure the best possible lifespan and appearance of your decking.

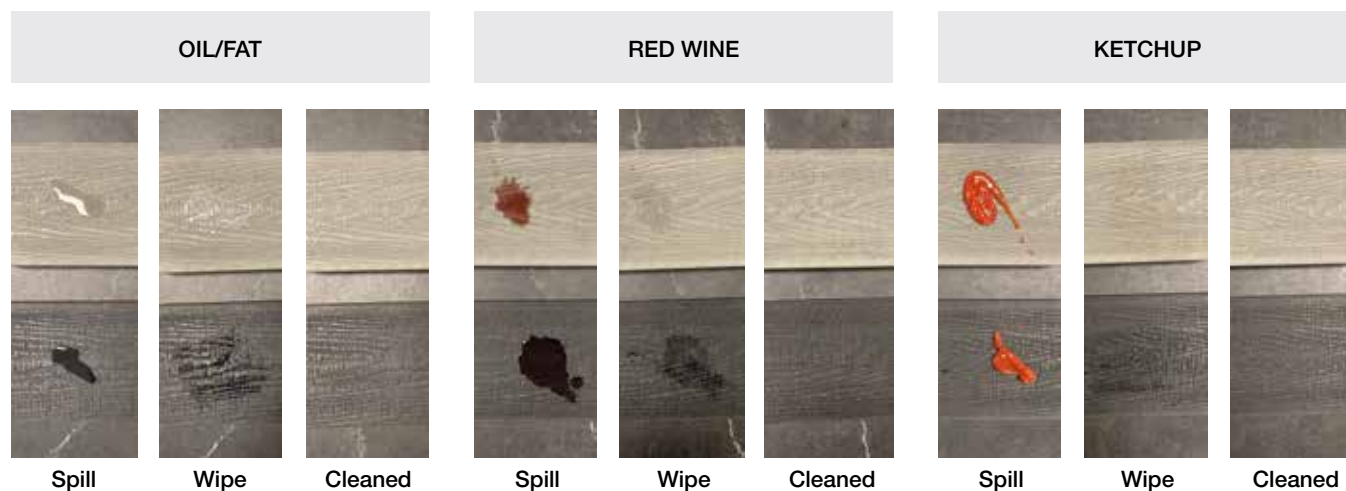
- ▶ If a stain does present then clean immediately with warm soapy water. For particularly stubborn grease marks a mild granulated clothes detergent and water can be used as an abrasive to lift stains.
- ▶ Burn marks, from BBQ's or similar can also be removed using a course piece of sandpaper (80gsm or similar), by rubbing the deck length-ways gently (embossed board only).
- ▶ Chemicals used in treating hot tubs can harm any surface including composite decking.

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CLEANING SPILLS WITH SOAP AND WATER - EMBOSED BOARD



CLEANING SPILLS WITH SOAP AND WATER - CAPPED BOARD



As with all materials composite boards will require cleaning when spillages occur. Above shows typical household stains that can be expected to come into contact with your decking. Each area was left for a short period of 10 minutes though as previously mentioned we would advise to clean the affected area as quickly as possible.

* This shows a typical test sample and is not stating that the product is stain proof. Instead the above illustrates the ease of maintenance.

GUARANTEE

The products to which this warranty applies shall be free from manufacturing defects that result in warping, cracking, splitting, rotting and fungal decay when subject to normal use for a period of twenty (20) years from the date of delivery of the products (Warranty Period).

This warranty only applies to manufacturing defects and does not cover:

- ▶ fair wear and tear of the product
- ▶ any defects or failures in the products or damage to the products caused by:
 - (a) any abuse, misuse or neglect of the products (including, without limitation, improper handling or storage of the products or failure to install the products completely in accordance with the manufacturer's and / or the supplier's installation instructions and / or guidelines and / or any applicable building Regulations.
 - (b) failing to maintain and clean the products in accordance with the manufacturers guidelines / instructions.
 - (c) use of the products beyond normal residential use.
 - (d) movement, distortion, collapse or settling of the ground or the supporting structure on which the products are installed.
 - (e) a Force Majeure event - an event that is a result of the elements of nature, as opposed to one caused by human behaviour or, air pollution, mold, mildew and other similar environmental condition.
 - (f) staining as a result of grease, oil, dirt or any other similar substance.
- ▶ any difference in the products from their description as a result of changes made by the supplier to ensure the products comply with any applicable statutory requirements from time to time.
- ▶ discoloration and / or variations in colour or uniformity to the products caused by:
 - (a) weathering and / or exposure by ultra violet light
 - (b) algae, moss, shading or sap from trees, bushes, or plants
 - (c) exposure to chemicals (whether or not directly applied to the products or in the atmosphere)

**FOR FULL GUARANTEE
SCAN THE CODE**



DESIGN GRID



DESIGN GRID



CONTACT

For further information, contact the Eurocell Technical Team on **03301 623 685**. Visit **eurocell.co.uk** to find installation guides and videos for Eurocell products.

