# CLARITY COMPOSITE FENCING INSTALLATION GUIDE 



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If in doubt at any stage

Please contact our Technical Support for additional support or advice.

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## STORAGE AND HANDLING

Whilst our composite materials are highly durable we do recommended you follow the below guidelines for storage, handling and installation, to ensure products are kept in the best possible condition.

## STORAGE

Materials should be stored under cover in shade, and protected from weather until ready to install.

Materials should be covered and kept dry until ready to install to ensure a clean surface. Products should not be stored outside and or covered with plastic sheeting.

All composite products should be stored supported above the ground at 500 mm intervals on a flat clean surface. Supporting battens used in storage should align through the stack to equally transfer the load.

Fencing panels must be stacked on top of each other.
Where multiple pallets are delivered these should not be stacked higher than 3 m per stack.

Eurocell will not be held responsible for issues that arise from poor storage.

## HANDLING

Fencing boards should be lifted and set down with care to avoid damage. Do not slide boards over one another.

Fencing boards should be carried in the middle and on their edge for best support when moving.

Avoid sliding or dragging any equipment across the board surface to avoid tarnishing the surface.

The surface of the fencing boards should be kept free of construction debris and material to prevent damage to the boards.

As with all sites, surfaces should be kept clean and tidy for the best installation outcome.

## SAFETY AND USE

Prior to installing any composite system we recommended that you consult local building regulations for any special requirements or restrictions that may apply. The illustrations and accompanying instructions in this guide are for illustrative purposes to provide a typical installation scenario, and do not replace the advice of a licensed professional in the field.

## SAFETY

Personal Protection Equipment (PPE) should be worn at all times (COSHH Assessment summary available). When cutting and installing boards it is advised to wear gloves, protective eye wear, a dust mask, long sleeves and trousers.

Dry and windy environments may result in a naturally occurring static build-up in composite products. The level of static build up will not cause personal injury.

Plan a layout for your fencing before starting to ensure the best looking layout is achieved.

## TOOLS

Recommended tools to install Eurocell composite fencing system
Standard woodworking/fencing tools can be used when working with Eurocell Composite Fencing. If you are unsure on how to use any tool, please consult the tool's manufacturer's user manual:

Stringline
Tape measure

Spirit Level

Hole digging equipment
Hand saw / Mitre Saw.

Protective eye wear and relevant Personal Protection Equipment (PPE)

Pencil

Not essential but useful - Laser level and Post hole digger

Electric drill and cordless screwdriver when installing the fence base plates

## PRE INSTALLATION INFORMATION

Installation of a composite fencing product is easy and straightforward. All of our products are compatible with recognised building and fencing materials. Composite fencing can be sawn and fixed using traditional cutting tools. This easy to understand guide provides a detailed summary of installation.

> Installation must be carried out to the instructions provided. Eurocell hold no responsibility for incorrect or inferior installation.
> Failure to install in accordance to these instruction to these instructions will invalidate the product guarantee.

- Ground should be solid, stable, smooth. Do not install composite fencing on hollow or uneven areas.
- All composite fencing panels are not advised to exceed 6ft in height.


## CLEANING AND CARE

Eurocell fencing boards will require periodic maintenance to remove the build up of dirt and debris. We recommend the fencing is cleaned once or twice a year using either:

A high pressure cleaner (Jet wash) with a fan shaped beam at a distance of at least 20 cm in a lengthwise direction, or;
Scrubbing brush with a all-purpose cleaner and water

## INSTALLATION METHODS

Clarity Composite Fencing is designed to fit in both complementary designed posts and existing posts. The Composite Fencing can be installed into concrete posts which is retro fit. The fencing is 45 mm wide so its designed to fit into existing posts.


## ASSEMBLED FENCE HEIGHTS

" 4 Foot" Fence

| Qty | Component | Assembled <br> Height | Component <br> Total Height |
| :--- | :--- | :--- | :--- |
| 1no. | Fence Bottom <br> Rail | 45 mm | 45 mm |
| 7no. | Fence Panel | 150 mm | 1050 mm |
| 1no. | Top Fence <br> Panel | 140 mm | 140 mm |
| Fence Height <br> (excluding <br> post \& caps) |  |  | 1235 mm |

" 5 Foot" Fence:

| Qty | Component | Assembled <br> Height | Component <br> Iotal Height |
| :--- | :--- | :--- | :--- |
| 1no. | Fence Bottom <br> Rail | 45 mm | 45 mm |
| 9no. | Fence Panel | 150 mm | 1350 mm |
| 1no. | Top Fence <br> Panel | 140 mm | 140 mm |
| Fence Height <br> (excluding <br> (ost \& caps) |  |  | 1535 mm |


" 6 Foot" Fence:

| Qty | Component | Assembled <br> Height | Component <br> Total Height |
| :--- | :--- | :--- | :--- |
| 1no. | Fence Bottom <br> Rail | 45 mm | 45 mm |
| 11no. | Fence Panel | 150 mm | 1650 mm |
| 1no. | Top Fence <br> Panel | 140 mm | 140 mm |
| Fence Height <br> (excluding <br> post \& caps) |  | $\underline{1835 \mathrm{~mm}}$ |  |



## FENCING COMPONENTS OVERVIEW

. 10 The diagram below gives an overview of the fencing components.


## AVAILABLE COLOURS



CHARCOAL


GRAPHITE


WALNUT

## FENCING COMPONENTS

Please ensure you are familiar with all the fencing components prior to starting.


| PRODUCT | SIZE | PROFILE |
| :---: | :---: | :---: |
| POST CAP | $145 \times 145 \times 23 \mathrm{~mm}$ |  |
| STEEL INSERT | $55 \times 55 \times 1940 \mathrm{~mm}$ (Concreted into the ground) |  |
| FENCE BASE PLATE (STEEL) | $125 \times 190 \times 900 \mathrm{~mm}$ (Fix to Concrete / Masonry) |  |
| SECURITY NAIL | Self Tapper |  |
| BASE FIXING BOLTS | M10x80mm (Fix to Concrete / Masonry) |  |
| Plastic Security Clip / Support for Aluminium Bottom Rail (optional) | Supplied as pack of 2 |  |

## POSSIBLE FINISHES (PLUS MORE!)



## CALCULATING MATERIAL

To determine how much Eurocell Fencing material will be required, you can either use detailed plans and elevations, or follow the method below.

## Step 1. Measure the length and height of your fence.

To work out how many fence boards you will need divide the length of the fence / 1905mm. This measurement is the total width of a panel including the centre of posts as illustrated below.

## FENCE POSTS

## PLAN VIEW

Centre of posts
1905mm


(Expansion gap, typically 2.5 mm )

## Step 2. Calculate the height

Fence boards are 1830 mm in length $\times 157 \mathrm{~mm}$ in height but have a finished face of 150 mm .

Below is a list showing the number of fence boards needed to achieve a certain height, based on stacking the boards on top of each other horizontally:
$12 \times$ boards $=1800 \mathrm{~mm}(6 \mathrm{ft})$
$10 \times$ boards $=1500 \mathrm{~mm}(5 \mathrm{ft})$
$8 \times$ boards $=1200 \mathrm{~mm}(4 \mathrm{ft})$
$6 \times$ boards $=900 \mathrm{~mm}(3 \mathrm{ft})$
1 no: Fence board $157 \times 45 \times 1830=0.28 \mathrm{~m}^{2}$

Note: As shown on the diagram adjacent, the set out of the fence boards includes an expansion gap to the end of the board $(X)$. This accounts for minor expansion of the board during hot weather.

The expansion gap value $(X)$ should be as follows:

| Air Temperature at <br> time of installation | Expansion Gap $(\boldsymbol{X})$ |
| :--- | :--- |
| 0 degrees | 4 mm |
| 10 degrees | 3 mm |
| 20 degrees | 2 mm |
| 30 degrees | 1 mm |

Note - If required the fence posts can be cut to length using standard woodworking tools to account for the expansion gap if required.

## Typical Example:

If your boundary fence is 14 meters long, 1.8 m (6ft) in height, and you're installing on a $15^{\circ} \mathrm{C}$ day:

Length 14m / 1905mm (Board length, expansion gap and post widths) $=7.34$ sections

Number of Fence boards needed $-7 \times 12=84$
For the 0.34 section of a panel, you will get two fence boards out of one length - so another 6 fence boards needed for the cut section.

## Total Needed:

Fence boards = 90
Posts = 9
Post Caps = 9
Aluminium Bottom Rail $=8$
Top Rail = 8
Plastic Clip $=16$
Eurocell composite fencing range offers end, inter and corner posts. Which posts used depends on your project.

## PLANNING YOUR PROJECT

## INSTALLATION - IN GROUND OR GRASS

## MARK OUT THE FENCE LINE AND DIG HOLES



Use a stringline to mark out the line of the fence. Make sure the area is clear of any obstacles/vegetation.
Please note that your posts should always be on your side of the boundary.

## 2.1


$\longrightarrow$

Dig a hole using a narrow shovel or Fencers graft to a depth of $600-850 \mathrm{~mm}$ depending on the softness of the ground.
Ensure the base of the pit is level.

## MOUNTING THE FIRST POST

## SET THE FIRST STEEL INSERT IN CONCRETE



Place the steel inset in the hole and ensure it is level using a spirit level. We recommend getting a second person to help you do this.


Fill the hole with post mix concrete. We recommend $2.5-3$ no. 20k bags depending on the size of the hole and ground conditions. Ensure that the concrete is filled to around 25 mm below the soil / ground level. Also ensure that concrete is angled away from the fence post to aid water run off.

## ENSURE THE POST IS LEVEL AND SET OUT THE NEXT



## COMPLETE FENCE PANEL OR CONTINUE TO SET OUT POSTS




Before installing the bottom rail, you may wish to install the security clips to the bottom of the fence post to rest the fence boards on. This is particularly useful when the ground isn't sufficiently solid.

## INSERT THE ALUMINIUM BOTTOM RAIL



Place the aluminium bottom rail into the H groove of the fence post and align both ends.
Slide the rail down between the fence posts.


Level the aluminum bottom rail - the rail can be sunken into the ground if needed.

## INSERT THE FENCE BOARDS



Slot the fence boards between the posts leaving a gap of 2.5 mm between the end of the fence board and the post - please see table on page 10 to calculate this expansion gap.

Note - If required the fence posts can be cut to length using standard woodworking tools.


Stack the remaining fence boards.

## SLOT THE FENCE BOARDS IN BETWEEN THE POSTS



FINISH THE FENCE PANELS


## SECURE THE POSTS



Optional - The fence posts can be secured by screwing the base and top into the steel insert.
If done, the holes should be pre-drilled and the screws (self tapping) should be countersunk in place to prevent cracking.


Job Done!

## INSTALLATION - TO CONCRETE FOOTING OR BLOCK WALL

## FIX THE FENCE BASE PLATE TO THE WALL / FOOTING




Ensure the insert is plumb and secure. Use steel shims / packers if required.

## ADD THE FENCE POSTS



Ensure the bolts are sufficiently tight.


SECURE THE FENCE POST AND INSERT BOARDS


## FINISH THE REMAINING PANELS



Install the remaining panels and give the fixing bolts one final check to make sure they're tight. Fit the plastic cover caps over the bolts.


## INSTALLATION RETRO FIT

## INSERT FENCE PANELS


15.1


Use packers to secure the boards where required.


Job complete.

## CONTACT

For further information, contact the Eurocell Technical Team on 0333777 3047. Visit eurocell.co.uk to find installation guides and videos for Eurocell products.

All together better

