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## If in doubt at any stage

Please contact our Customer Care Team for additional support or advice
(8) 03333212353

## 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.
$\rightarrow$ 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

## SAFETY

$\downarrow$ 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.

## USE

Standard tools can be used to install our composite fencing. When using a chop saw we would recommend a 60T+ Multipurpose Aluminium blade for maximum efficiency and neatness on cuts.

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 |
| :---: | :---: | :---: | :---: |
| 1 no. | Fence bottom rail | 45 mm | 45 mm |
| 7 no. | Fence panel | 150 mm | 1050 mm |
| 1 no. | Top fence panel | 140 mm | 140 mm |
| Fence height <br> (excluding post <br> and caps) |  |  | 1235 mm |

5 foot fence

| QTY | COMPONENT | ASSEMBLED <br> HEIGHT | COMPONENT <br> TOTAL HEIGHT |
| :---: | :---: | :---: | :---: |
| 1 no. | Fence bottom rail | 45 mm | 45 mm |
| 9 no. | Fence panel | 150 mm | 1350 mm |
| 1 no. | Top fence panel | 140 mm | 140 mm |
| Fence height <br> (excluding post <br> and caps) |  |  | 1535 mm |



6 foot fence

| QTY | COMPONENT | ASSEMBLED <br> HEIGHT | COMPONENT <br> TOTAL HEIGHT |
| :---: | :---: | :---: | :---: |
| 1 no. | Fence bottom rail | 45 mm | 45 mm |
| 11 no. | Fence panel | 150 mm | 1650 mm |
| 1 no. | Top fence panel | 140 mm | 140 mm |
| Fence height <br> (excluding post <br> and caps) |  |  | 1835 mm |



## FENCING COMPONENTS OVERVIEW

1.0

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 |
| :---: | :---: | :---: |
| FENCE BOARDS | $\begin{gathered} 45 \times 157 \times \\ 1830 \mathrm{~mm} \end{gathered}$ |  |
| TOP BOARD | $45 \times 139 \times 1830 \mathrm{~mm}$ |  |
| BOTTOM RAIL | $45 \times 52 \times 1830 \mathrm{~mm}$ |  |
| END POST | $125 \times 125 x$ 1940mm |  |
| INTERMEDIATE POST | $\begin{aligned} & 125 \times 125 x \\ & 1940 \mathrm{~mm} \end{aligned}$ |  |
| CORNER END POST | $125 \times 125 x$ 1940mm |  |


| PRODUCT | SIZE | PROFILE |
| :---: | :--- | :--- |
| POST CAP | $145 \times 145 \times 23 \mathrm{~mm}$ |  |
| STEEL INSERT | $55 \times 55 \times 1940 \mathrm{~mm}$ <br> (Concreted into the <br> ground) |  |
| FENCE BASE <br> PLATE (STEEL) | $125 \times 190 \times 900 \mathrm{~mm}$ <br> (Fix to Concrete / <br> Masonry) |  |
| SECURITY NAIL | Self Tapper |  |
| BASE FIXING <br> BOLTS | M10x80mm <br> (Fix to Concrete / <br> Masonry) |  |
| Plastic Security <br> Clip / Support for <br> Aluminium Bottom <br> Rail (optional) | Supplied as pack <br> 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 / 1905 mm . This measurement is the total width of a panel including the centre of posts as illustrated below.

FENCE POSTS PLAN VIEW


(Expansion gap, typically 2.5mm)

## Step 2. Calculate the height

Fence boards are 1830mm 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 (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, $1.8 \mathrm{~m}(6 \mathrm{ft})$ 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

## 2.0



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

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.

## 3.1



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




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.


[^0]SLOT THE FENCE BOARDS IN BETWEEN THE POSTS


Finish by inserting the top board.


FINISH THE FENCE PANELS



Insert the post cap.

## 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


Before starting - ensure the wall or footing is in adequate condition.
Minimum depth of masonry/concrete to be 150 mm thick. Eurocell cannot take responsibility for inadequate structural foundations.

Place metal post supports in position, ensuring they are plumb/level and square to the run of the fencing. Pre drill with an 8 mm masonry drill bit and fix the Steel Inserts and Base Plate to the structure using the supplied M10 x 80 mm bolts.

## 11.1



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

## ADD THE FENCE POSTS



Slide the fence post over the steel insert.

## SECURE THE FENCE POST AND INSERT BOARDS



Insert the fence boards, top rail and post caps as per option 1.

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


[^1]15.2


Job complete.


Please contact our Customer Care Team for additional support or advice:
(8) 03333212353
(\#) eurocell.co.uk/technical-hub
eurocell.co.uk


[^0]:    Stack the remaining fence boards.

[^1]:    Use packers to secure the boards where required.

