CLARITY COMPOSITE FENCING



INSTALLATION GUIDE

Issue 1

CONTENTS

Safety and use2Tools3Pre installation information3Cleaning and care4Installation methods4Assembled fence height5Fencing components6Calculating materials8Planning your project9	d handling	2
Pre installation information3Cleaning and care4Installation methods4Assembled fence height5Fencing components6Calculating materials8Planning your project9	use	2
Cleaning and care4Installation methods4Assembled fence height5Fencing components6Calculating materials8Planning your project9		3
Installation methods4Assembled fence height5Fencing components6Calculating materials8Planning your project9	tion information	3
Assembled fence height5Fencing components6Calculating materials8Planning your project9	nd care	4
Fencing components6Calculating materials8Planning your project9	methods	4
Calculating materials8Planning your project9	fence height	5
Planning your project 9	mponents	6
	materials	8
	pur project	9
Installation in soft ground 9	in soft ground	9
Installation to concrete footings or blocks 18	to concrete footings or blocks 1	8
Installation - retro fit 22	- retro fit 2	22

If in doubt at any stage

Please contact our Customer Care Team for additional support or advice

) 0333 321 2353

 (\mathbb{R})



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 500mm intervals on a flat clean surface. Supporting battens used in storage should align through the stack to equally transfer the load.

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.

- Fencing panels must be stacked on top of each other.
- Where multiple pallets are delivered these should not be stacked higher than 3m per stack.
- Eurocell will not be held responsible for issues that arise from poor storage.

- 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

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.

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.
- 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 20cm 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 45mm wide so its designed to fit into existing posts.







ASSEMBLED FENCE HEIGHTS

4 foot fence

QTY	COMPONENT	ASSEMBLED HEIGHT	COMPONENT TOTAL HEIGHT
1 no.	Fence bottom rail	45mm	45mm
7 no.	Fence panel	150mm	1050mm
1 no.	Top fence panel	140mm	140mm
Fence height (excluding post and caps)			1235mm

5 foot fence

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



6 foot fence

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





FENCING COMPONENTS OVERVIEW

1.0

The diagram below gives an overview of the fencing components.



AVAILABLE COLOURS



FENCING COMPONENTS

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

PRODUCT	SIZE	PROFILE		PRODUCT	SIZE	PROFILE
FENCE BOARDS	45 x 157 x 1830mm			POST CAP	145 x 145 x 23mm	
TOP BOARD	45x139x1830mm	Dual sided board		STEEL INSERT	55x55x1940mm (Concreted into the ground)	
BOTTOM RAIL	45x52x1830mm			FENCE BASE PLATE (STEEL)	125x190x900mm (Fix to Concrete / Masonry)	
END POST	125x125x 1940mm		-			
	1940mm			SECURITY NAIL	Self Tapper	
INTERMEDIATE POST	125x125x 1940mm			BASE FIXING BOLTS	M10x80mm (Fix to Concrete / Masonry)	
CORNER END POST	125x125x 1940mm	*		Plastic Security Clip / Support for Aluminium Bottom Rail (optional)	Supplied as pack of 2	

POSSIBLE FINISHES (PLUS MORE!)



38mm panel side

63mm panel side

Interchanging 38, 63mm panel sides

38mm, 63mm header panel sides

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



Step 2. Calculate the height

Fence boards are 1830mm in length x 157mm in height but have a finished face of 150mm.

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 x boards = 1800mm (6ft) 10 x boards = 1500mm (5ft) 8 x boards = 1200mm (4ft) 6 x boards = 900mm (3ft)

1 no: Fence board 157 x 45 x 1830 = 0.28 m²

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 time of installation	Expansion Gap (X)
0 degrees	4mm
10 degrees	3mm
20 degrees	2mm
30 degrees	1mm

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, 1.8m (6ft) in height, and you're installing on a 15°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





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.



ground conditions. Ensure that the concrete is filled to around 25mm 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



Place the Composite fence post over the steel insert. Check once more to make sure the post is plumb and level. Brace if needed - but avoid screwing into the composite post. After 24hrs support braces can be removed, once the concrete has set.

Please note - The composite fence post is to sit on-top of the concrete. Only the steel insert is concreted into the ground. Whilst the concrete is setting, ensure the post does not rest on the surface - use temporary battens if necessary.

4.1



Use a string line to set out the next post and measure the distance to ensure correct.

It can be useful here to use the Aluminium Bottom Rail (Refer to step 5), to double check the distance and set out. Be careful to not get any wet concrete on the rail itself.

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





INSERT THE FENCE BOARDS



Slot the fence boards between the posts leaving a gap of 2.5mm 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.



SLOT THE FENCE BOARDS IN BETWEEN THE POSTS





Optional - It is possible to secure the boards in place using a security clip supplied by Eurocell. This is simply screwed into the fence post and prevents theft of the fence boards.

Ensure that the clip is installed at least 2mm from the top of the fence post to allow installation of the post cap, see next page.

Also ensure the hole is pre-drilled and the screw countersunk to achieve a flush finish. This can be done from either side as shown adjacent.

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 150mm 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 8mm masonry drill bit and fix the Steel Inserts and Base Plate to the structure using the supplied M10 x 80mm bolts.



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



To secure the composite fence post to the fence base plate, pre drill through the H section of the composite post and insert a self tapper.



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





Use packers to secure the boards where required.





Please contact our Customer Care Team for additional support or advice:

b 0333 321 2353

eurocell.co.uk/technical-hub

eurocell.co.uk

