# COMPOSITE SALES 

## Welcometo OUR INSTALLATION GUIDE

Our composite fencing boards are provided by top quality UK manufacturer Ecoscape and are made from a combination of recycled high density polyethylene and reclaimed wood fibres This blend results in a high strength fencing system that is exceptionally weather-resistant

Each board has a modular design and is dual sided, allowing homeowners to create their unique fence board pattern. The boards have been designed to easily slot on top of each other making their installation process quick and simple.


## The Board

Composite fencing (also known as WPC fencing) from Ecoscape is a smart and innovative boundary solution for domestic and commercial properties. A low-maintenance alternative to timber, these composite fencing panels can add both style and longevity to your outdoor space.


- Each board is 157 mm ( 150 mm finished) wide $\times 45 \mathrm{~mm}$ thick $\times 1.83 \mathrm{mtr}$ long
- Please note that images are used for illustration purposes only The actual product may slightly vary from the image supplied.


## Accessories

Fence end posts are used at the end of a run of fencing to provide an aesthetically pleasing finish on a property. Each post fits easily against the edges of fencing boards.

Inter-fence posts sit between two rows of fence boards in a composite fencing installation. They feature slots on either side that allow them to easily be connected to the ends of fence boards


Corner fence posts are used as a connection point where two runs of fence boards intersect at a 90 degree angle

Post caps can be used on any Clarity fence post in order to provide an aesthetically pleasing finish to the top of the post.


These steel fence post inserts are used to support composite fence posts and are placed and concreted into the ground before said fence posts are placed over them.

This steel base plate is used in conjunction with fixings to firmly secure a steel post insert into position.


In a composite fencing installation, the fence top board
sits along the very top of the fence and simply slots on top of the highest fence board between two posts.

The bottom rail is placed in between two fence posts before any fence boards are slotted in place in order to provide a robust support for the composite fencing system.

## Before you start

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

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 500 mm intervals on a flat surface

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

## Installation methods

There are three main methods to installing composite fencing


Into ground or grass with a concrete footing.


SOILD BASE
Onto a concrete foundation or brick wall


RETROFIT
Retrofit into existing concrete posts

## 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 prevent the surface from tarnishing. The fencing boards' exterior should be kept free of construction debris and material to prevent damaging the boards.

## Safety

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

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

## CALCULATING <br> MATERIALS AND EXPANSION GAPS

To determine how much composite 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


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 $(\mathrm{X})$ should be as follows:

| Air Temperature at time of installation | Expansion Gap (X) |
| :--- | :--- |
| 0 degrees | 4 mm |
| 10 degrees | 3 mm |
| 20 degrees | 2 mm |
| 30 degrees | 1.5 mm |

NOTE: - If required, the fence posts can be cut to length using standard woodworking tools. Remember to account for any expansion gap

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 standard Fence Boards (excluding Aluminium Bottom Rail ( 45 mm assembled height) + top fence board 140 mm assembled height $=185 \mathrm{~mm}$ ) needed to achieve a certain height, based on stacking the boards on top of each other horizontally:

# 11no. Boards $=1650 \mathrm{~mm}(+185 \mathrm{~mm})=1835 \mathrm{~mm}$ (approx. 6 ft ) <br> 9no. Boards $=1350 \mathrm{~mm}(+185 \mathrm{~mm})=1535 \mathrm{~mm}$ (approx. 5ft) 7no. Boards $=1050 \mathrm{~mm}(+185 \mathrm{~mm})=1235 \mathrm{~mm}$ (approx. 4ft) 5 no . Boards $=750 \mathrm{~mm}(+185 \mathrm{~mm})=935 \mathrm{~mm}$ (approx. 3 ft ) 

(Area of 1no. Fence Board $=157 \times 45 \times 1830=0.28 \mathrm{~m}^{2}$

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

Length $14 \mathrm{~m} / 1905 \mathrm{~mm}$ (Board length, expansion gap \& post widths) $=7.34$ sections
Number of Fence boards needed - $7 \times 11=77$
For the 0.34 section of a panel, you will get two fence boards out of one length So another 6 fence boards are needed for the cut section.

## Total Needed:

Standard Fence Boards $=83$
Posts = 9
Post Caps $=9$
Aluminium Bottom Rail $=8$
Top Fence Board $=8$
Plastic Clip = 16




STEP 7 Before installing the bottom rail, you may wish to install the security clips to the bottom of the fence post


STEP 8 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.

STEP 8a Level the aluminum bottom rail.The rail can be sunken into the ground if needed

STEP 9 Slot the fence boards between
the posts, leaving a gap of 2.5 mm
between the end of the fence board
ank

STEP 9a Stack the remaining fence boards

## .




STEP 1 Place metal post supports in
position, ensuring they are plumb/flat and square to the run of the fencing. First, SOILD BASE

STEP 2 Ensure the insert is straight and secure. Use steel shims / packers if required. the wall or footing is in adequate condition Minimum depth of masonry / concrete must be 150 mm thick. PBSL Group cannot take responsibility for inadequate structural foundations

Pasers) supplied M1O x 80 mm anchor bolts, you will need to pre-drill the structure to accept these. This should require a masonry drill bit of 13 mm or 14 mm diameter depending on the substrate being fixed into.



STEP 4 Slide the fence post over the steel insert

STEP 5 To secure the composite fence post to the fence base plate, pre-drill through the H section of the
mposite post and insert a self tapper. Do this twice -150 mm
from the bottom
and 300 mm from
the bottom. Self
tappers are included with the base plate


