

Neo**Timber**[®]
COMPOSITE FENCING

**INSTALLATION AND
CARE GUIDE**

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This installation guide is purely a guidance document on how to install NeoTimber products. We understand that not every project will use all of the products outlined, but we recommend that key elements should be followed regardless of the chosen solution.





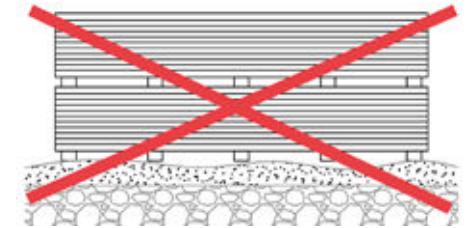
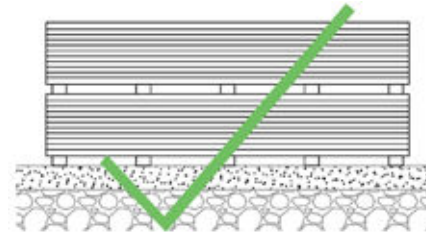
NeoTimber[®]
COMPOSITE FENCING

PRE-INSTALLATION

Before receiving your NeoTimber fencing, we recommend getting up to scratch with all things you'll need to consider prior to installation. From handling the material, to recommended tools for the job, as well as more information on the product and the finish, our pre-installation guide is vital in ensuring you have a head-start.

PRE-INSTALLATION - HANDLING YOUR FENCING

- It is important to make sure that you create a flat, clear area to store your fencing boards before install. Laying your fencing boards and any accessories onto wooden battens at approximately 400-500mm spacings will ensure that the composite material avoids sitting water, dirt or grit that can scratch or damage the boards prior to installation.



- If you are storing any fencing boards outside, make sure to cover them with a protective sheet to prevent damage. Avoid leaning your fence boards up against surfaces for an extended amount of time in order to avoid the product bowing.
- Take extra precautions when moving, lifting or fitting your fencing boards to avoid accidental surface scratching. Do not drag, drop or slide the fence boards when laying them on top of one another.
- Make sure to keep your working area as clean and tidy as possible. This will help to keep the surface of your fencing boards clear of any construction dust and debris.



PRE-INSTALLATION - TOOLS FOR THE JOB

RECOMMENDED TOOLS



HAMMER DRILL



HAND DRILL



TAPE MEASURE



PENCIL OR CHALK



JIG SAW



CIRCULAR / MITRE SAW



SPIRIT LEVEL



STRING LINE

SAFETY & PPE



EAR PROTECTION



SAFETY GLASSES



SAFETY GLOVES



LONG SLEEVES



DUST MASK



SAFETY FOOTWEAR

TOOL TIPS

- Standard wood working tools can be used with NeoTimber fencing.
- We recommend carbide-tipped blades for the cleanest saw cuts. When using circular saws we recommend a 40-50 teeth blade.
- Use a 3mm drill bit for countersinking.
- If you are unsure on how to use a specific tool, please consult the tool manufacturer's user manual.

PRE-INSTALLATION - ELEMENTS TO CONSIDER

Pre-Planning Your Fencing Design

Considerations of your fencing design should be taken well before purchasing your materials. Your fence board requirements and the number of posts you will need to complete the project will be heavily dependent on not only the overall meterage of fencing required, but your desired design, too.

Consider the number of individual runs that your fencing design will include, as well as its height. Should assistance be required in calculating this, please speak directly to our sales department, or use our handy online fencing calculators.

NeoTimber's Post Options

NeoTimber's different post options allow for a wide range of applications: including post installation on soft or hard ground, as well as retro-fit options with a concrete and timber post insert.

Composite Fence Posts

While the composite fence post is supplied in 1.8m lengths, lower height panels can be achieved and the height of your post can be amended simply by cutting down our composite post material. In cases where the composite post is cut-down, additional materials such as post supports and post caps may be required.

Concrete Or Timber Post Inserts

Our concrete and timber post inserts come supplied in 1.8m lengths and can also be cut down with the correct cutting equipment. Note that these do not come supplied with screws to fix the product and these will need to be sourced separately.



PRE-INSTALLATION - COLOUR & TEXTURE

NeoTimber's composite fence boards come in two ranges: our Slatted and Deluxe profiles. Each are made-up of a composite material with an additional plastic capping that surrounds the wood-plastic core of the boards. The profile of both of these two products varies and therefore they cannot be interchanged within the same panel. It is advised that you take consideration of both colour and texture of these products before installation.

Colour

The colour tone of both the Deluxe and Slatted boards shall slightly vary from board-to-board to mimic a more distinctive, authentic, real wood finish. Consideration of this should be taken upon installation. As a manufactured product that is made of natural materials, it is to be expected that there will be a level of batch variation between NeoTimber fencing products. This should also be taken into consideration when purchasing your fencing materials.



Texture

The texture and finish of our fencing products varies between our two ranges. Slatted boards are finished with the same brushed finish on both sides of the board. The Deluxe is a two-sided product, with an embossed finish on one side of the board and a brushed finish on its reverse side. NeoTimber recommend building your panel in a uniform manner with the same finish facing the same direction. Care should be taken when installing the boards as to avoid inconsistencies in the finish across a panel.





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FENCE POST INSTALLATION OPTIONS

NeoTimber offers a range of fence post options to choose from and this section guides you through installation for each application. This guide will take you through the steps necessary to install composite posts, for both hard and soft ground fixing; as well as a step-by-step on installation of our concrete and timber post inserts.

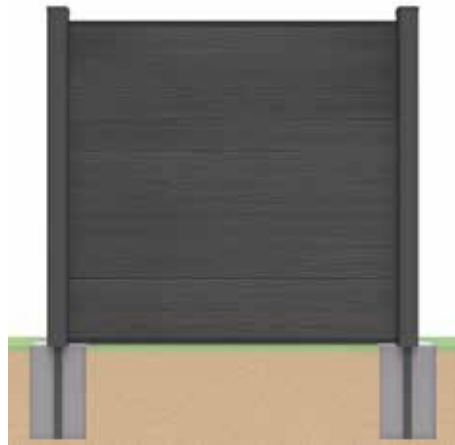
INSTALLATION - POST INSTALLATION OPTIONS

NeoTimber's fencing can either be installed in full panel or component form, which offers greater flexibility to fit to the parameters of your space. With this, comes four different ways in which you can install NeoTimber fencing posts.

This section provides installation guidance on NeoTimber's composite fence post for both a hard ground and soft ground installation; as well as installation onto timber or concrete posts using purpose-built aluminium inserts.



**Post Installation
On Hard Ground**
pg. 10 - 12



**Post Installation
On Soft Ground**
pg. 13 - 15



**Concrete Post
Insert Installation**
pg. 16 - 17

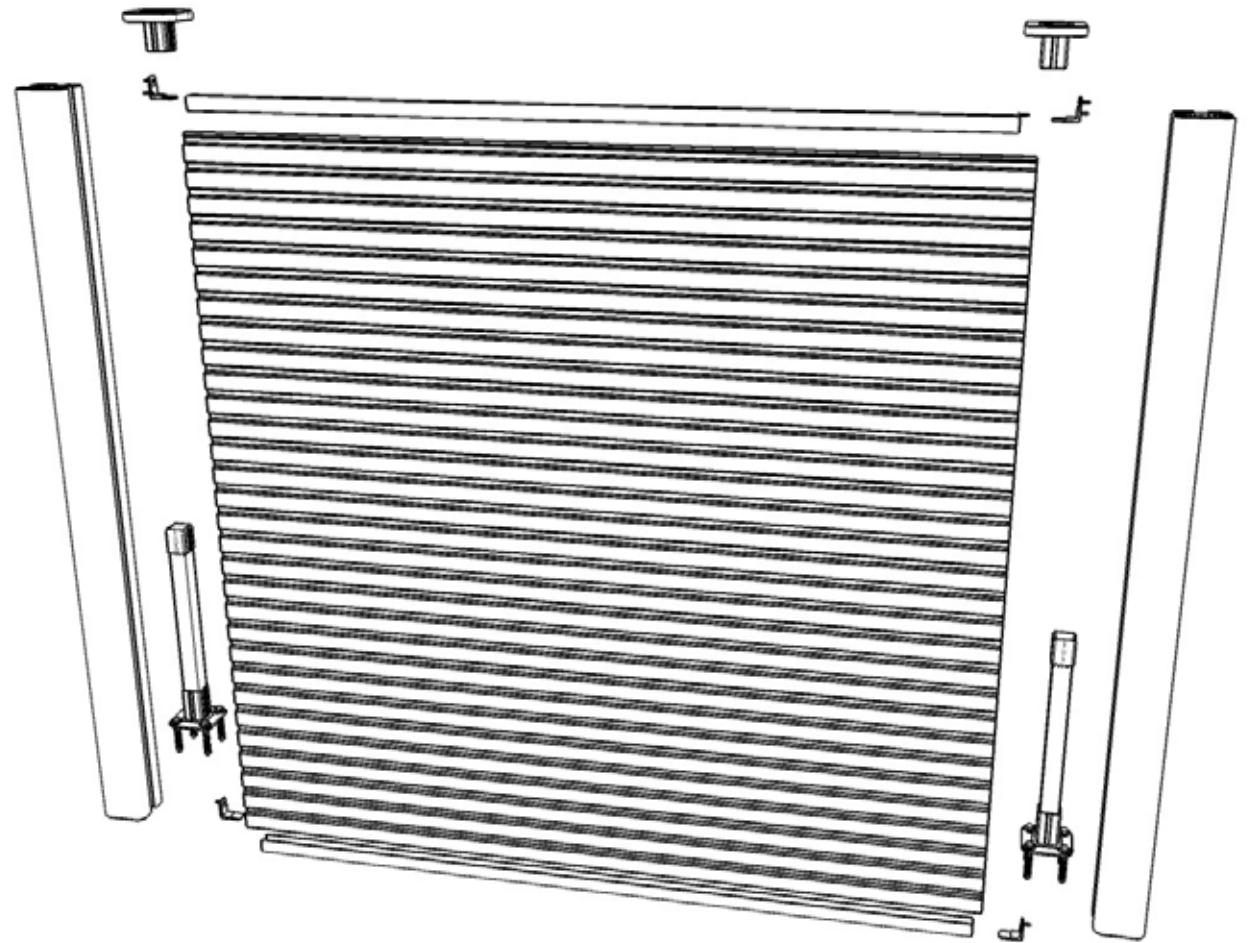


**Timber Post
Insert Installation**
pg. 18 - 19

INSTALLATION - COMPOSITE POST INSTALLATION (HARD GROUND) NeoTimber® COMPOSITE FENCING

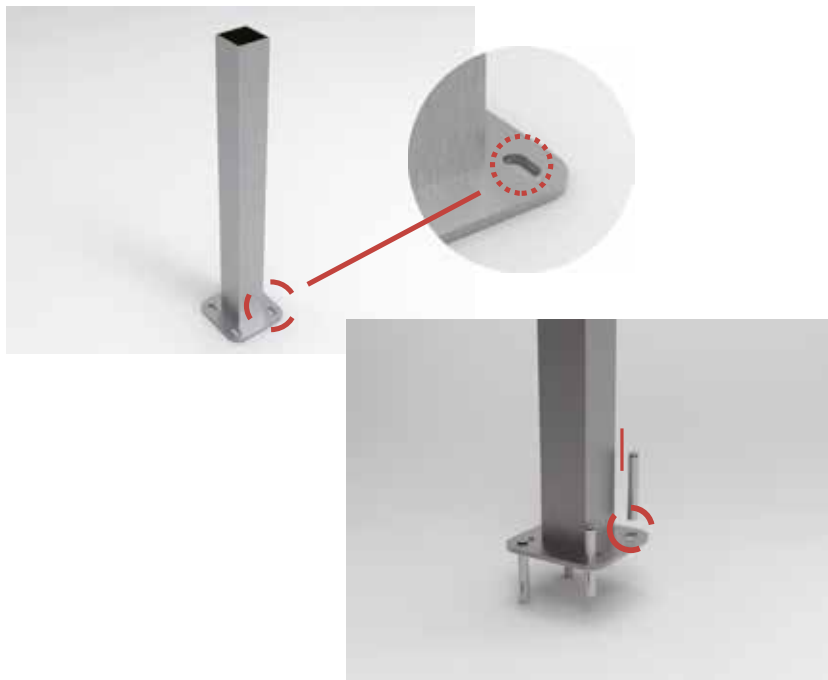
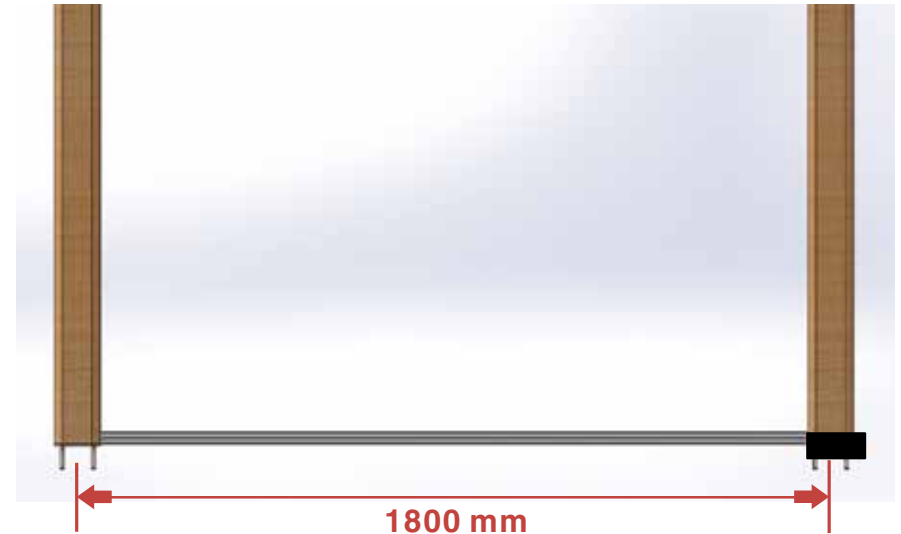
Installing a composite fence panel on solid ground is done using NeoTimber's composite fence post support and fixings for hard ground. The galvanised steel post support acts as an anchor to the composite post, offering a strong foundation for a fence panel. Our installation guidance covers the step-by-steps included in fixing your post support and securely positioning your composite fence posts.

Note that the same installation guidance can be used to install NeoTimber fencing onto an existing deck area. The installation will however require alternative fixings to the 80mm expansion bolts required for a concrete ground installation.



1 Position The Fence Post Supports To Suit Your Required Fence Board Length

Should you be installing a full-length panel, ensure your post supports are centred at 1800mm. Use a spirit level to ensure the post supports sit completely flat on the solid base. We recommend using the NeoTimber base rail and composite post to double check the span of your post supports before fixing, ensuring they are adequately spaced to house both components.



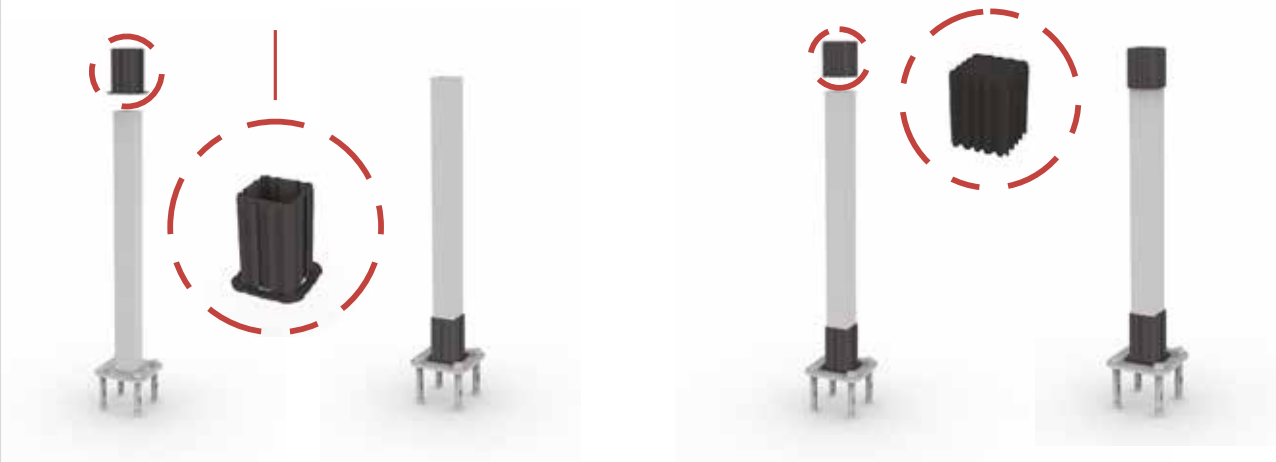
2 Securely Fix Post Supports Using Expansion Screws

Once the post supports are positioned correctly, clearly mark the four screw hole positions. Pre-drill 12mm x 60mm fixing holes and fix a raw plug to suit. Securely fasten the post support using the supplied 80mm expansion bolts and tighten with a wrench.

3 Install Your Plastic Fixing Sleeves Over Your Support

NeoTimber's plastic fixing sleeves act as additional packers for your posts, ensuring added rigidity to the post system.

Slide the base fixing sleeve onto the post support and position at the base of the support. Cap-off the post support with the top support cap, as shown in the illustration.



4 Place Your Composite Post Over The Support

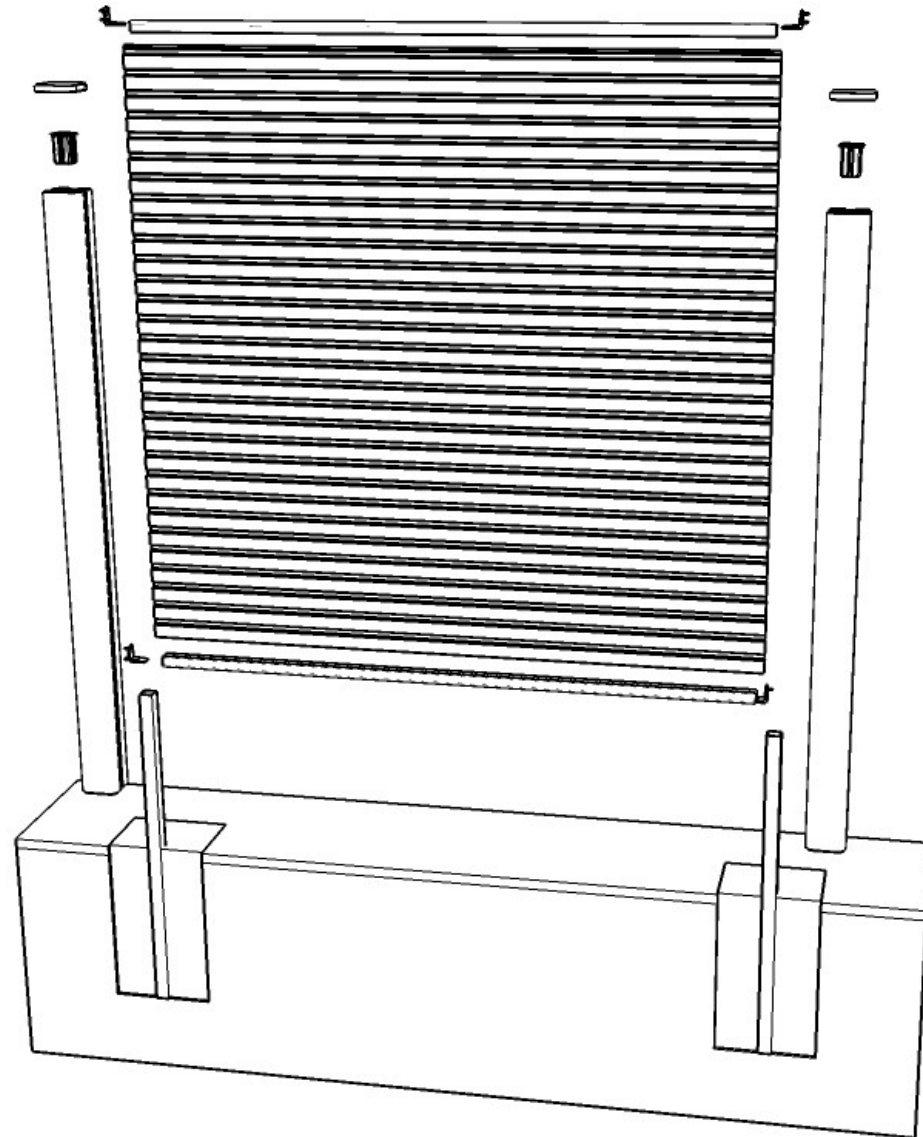
Place your composite post over your post support, position the posts to ensure they are fully level and straight. Cap-off the composite post using the third plastic fixing sleeve.



INSTALLATION - COMPOSITE POST INSTALLATION (SOFT GROUND) NeoTimber® COMPOSITE FENCING

Installing NeoTimber's fencing into earth is achieved using the fence post support for soft ground. This galvanised steel support is securely fixed into the ground and acts as an anchor to the composite post.

The steel insert should be positioned no less than 600mm into the ground, with the composite post slotting over the exposed post support that sits above ground. Should you wish to install your posts any lower than the exposed post support, the galvanised steel insert can be cut-down to suit.



1 Mark Out And Dig Your Fence Post Holes

Should you be installing a full-length panel, space your post holes that will accommodate your post supports being fixed at 1800mm centres.

Once you have marked your post spacings, dig your post holes no less than 600mm deep. Ensure all debris, rocks and tree roots are removed in order to avoid obstructing your post supports. Cutting equipment and a post hole digger may be required.



2 Position And Secure Your Post Supports With Concrete

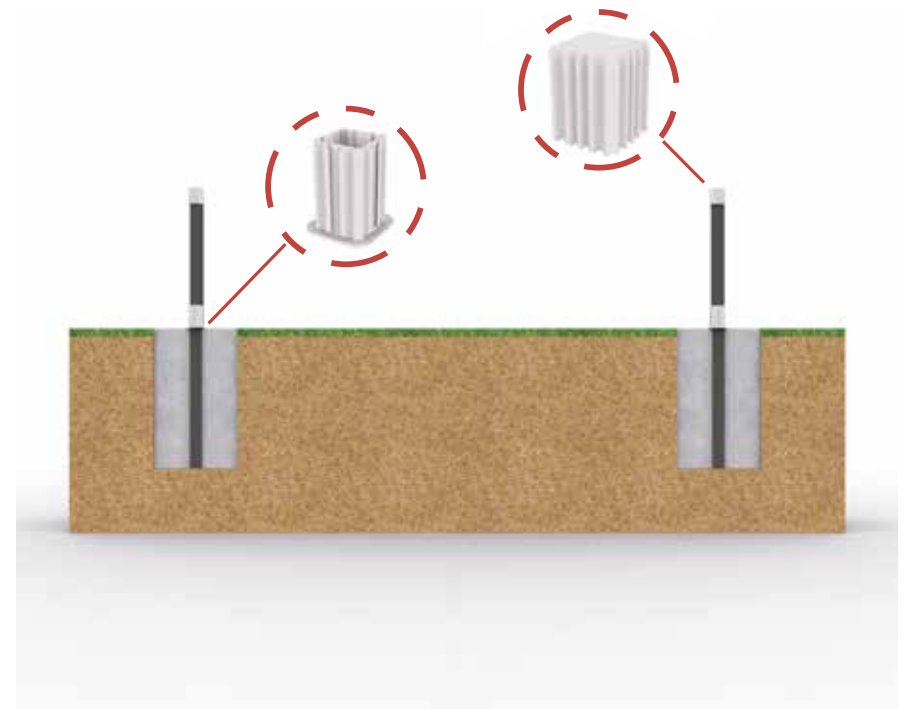
Position your post support into the hole and use a spirit level and string line to ensure the supports remain fully straight and aligned to your fence line.

Then, pour concrete directly into your post holes. Wait until the concrete has set before proceeding to step 3.



3 Install Your Plastic Fixing Sleeves Over Your Post Support

NeoTimber's plastic fixing sleeves act as additional packers for your posts. Slide the base fixing sleeve onto the post support and position at the base of the support. Cap-off the post support with the top support cap, as shown in the illustration.



4 Place The Composite Post Over The Post Support

Place your composite post over your post support, position the posts to ensure they are fully level and straight. Cap-off the composite post using the third plastic fixing sleeve.

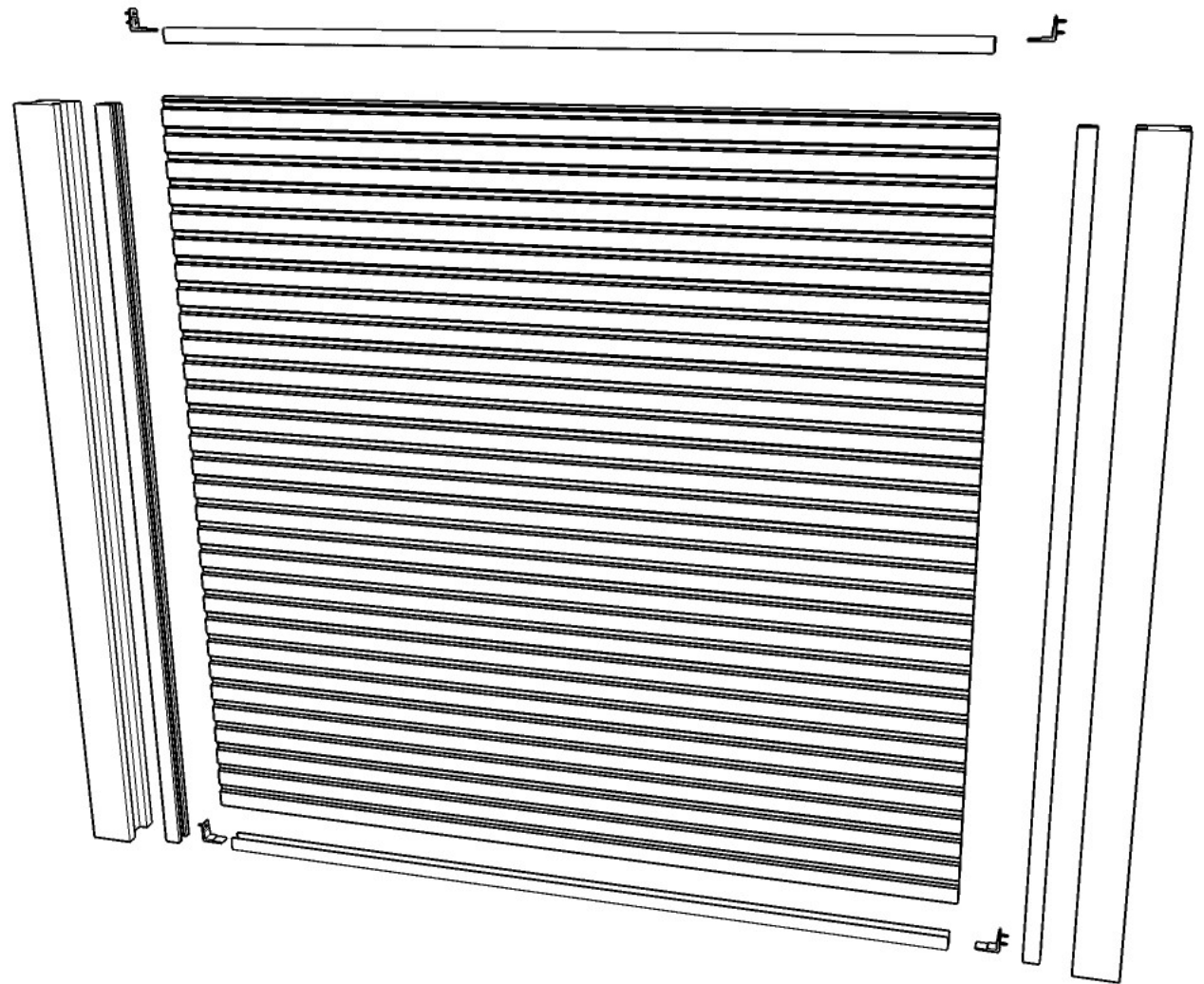


INSTALLATION - CONCRETE POST INSTALLATION

NeoTimber's concrete post inserts are aluminium channels that are designed to offer a retrofitting option with concrete fence posts. These aluminium inserts are provided in 1800mm lengths but can be cut down to length using suitable cutting equipment.

Inserts must be fixed to the concrete posts in 4 places along its length. We recommend using 4mm x 40mm masonry screws to secure the post insert to the concrete post and advise both the post insert and concrete post are pre-drilled prior to fixing.

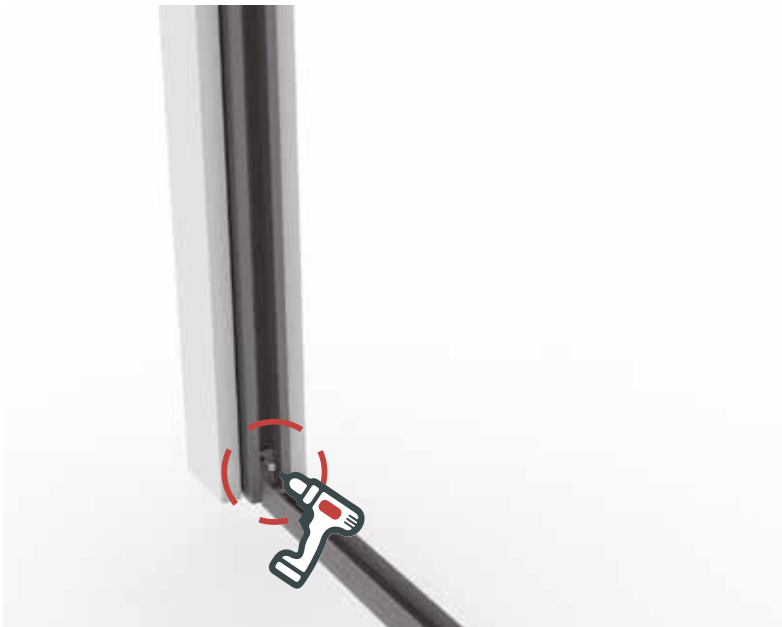
NeoTimber's products are designed to accommodate standard concrete post dimensions, but we do advise that you double check the dimensions of NeoTimber's concrete post inserts, fence boards, screens and capping rails prior to installation to ensure all are compatible.



1 Position The Post Insert Into The Grooved Opening Of Your Concrete Posts

Position the insert into the concrete post, cut down to suit the length of the concrete post should it be required. Pre-drill the insert and the concrete posts before plugging these with raw-plugs. Fix at 4 points along the length of the post insert.

Note: Be sure to not over drill when pre-drilling the concrete to avoid damaging the post.



2 Secure The Fencing System Using The Bottom Capping Rail And L-Bracket

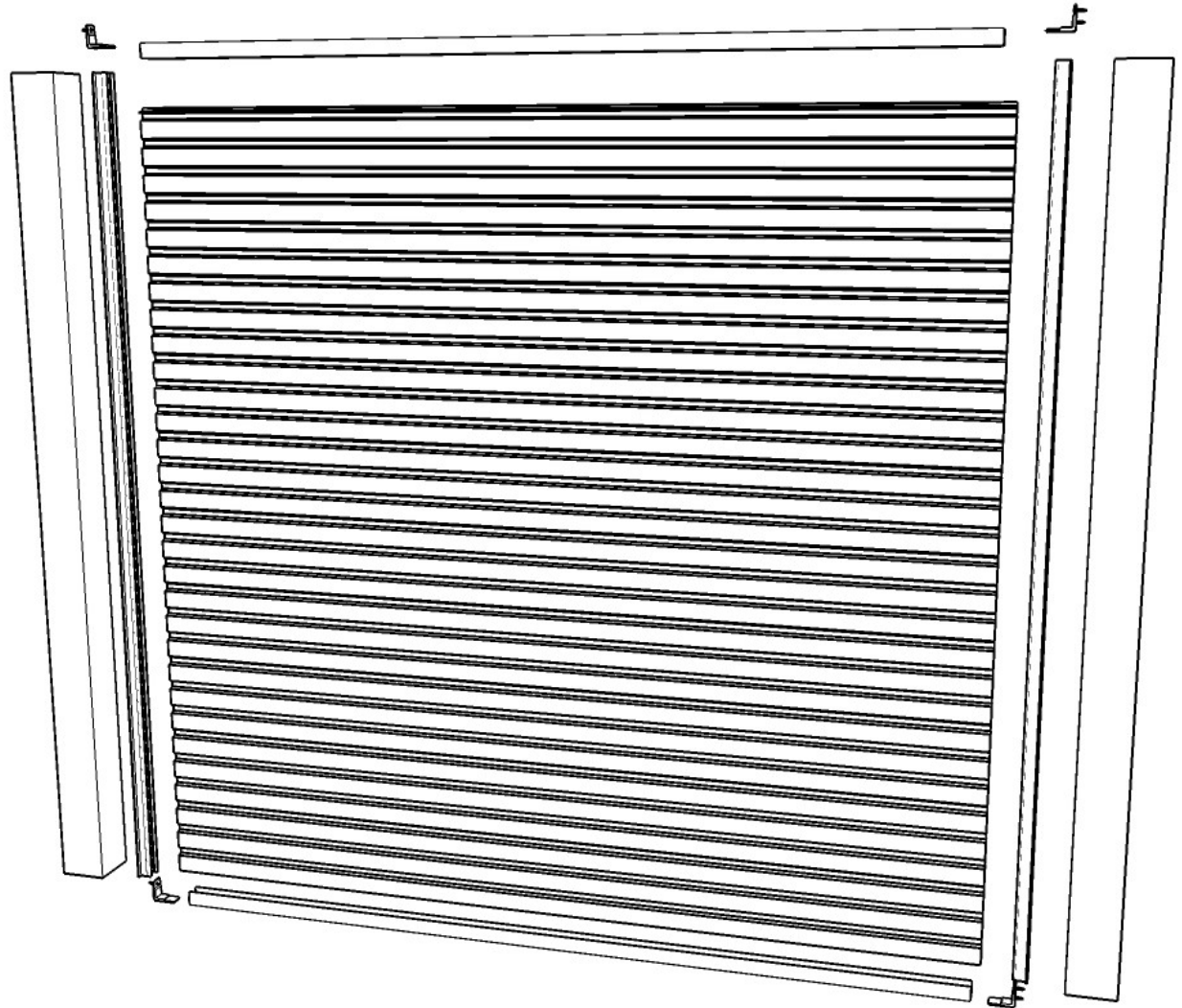
Before installing your NeoTimber fence boards, install the bottom rail. See pg.21 for information on how to build your panels using NeoTimber's fence boards.

INSTALLATION - TIMBER POST INSTALLATION

NeoTimber's aluminium post inserts for timber work in a similar manner to the concrete insert options and allow you to retrofit your NeoTimber composite fencing onto either existing or new timber posts. Our aluminium inserts are provided in 1800mm lengths but can be cut down to length using suitable equipment.

Inserts must be fixed to the timber posts in 4 places along its length. We recommend using 4mm x 40mm self-tapping screws to securely fix the insert to the timber posts.

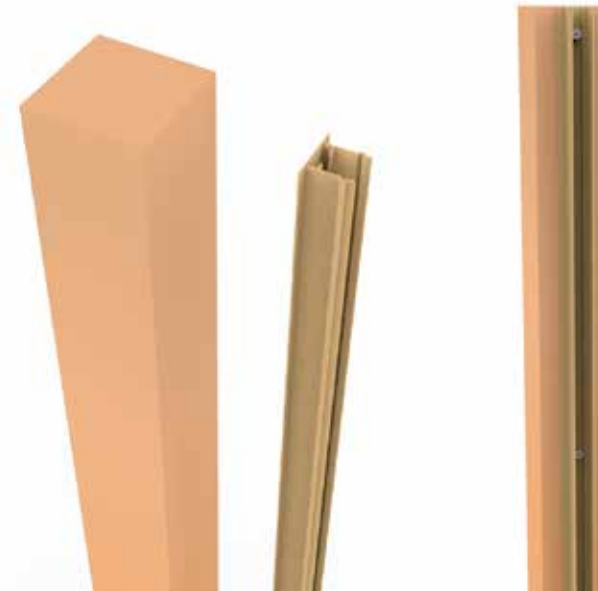
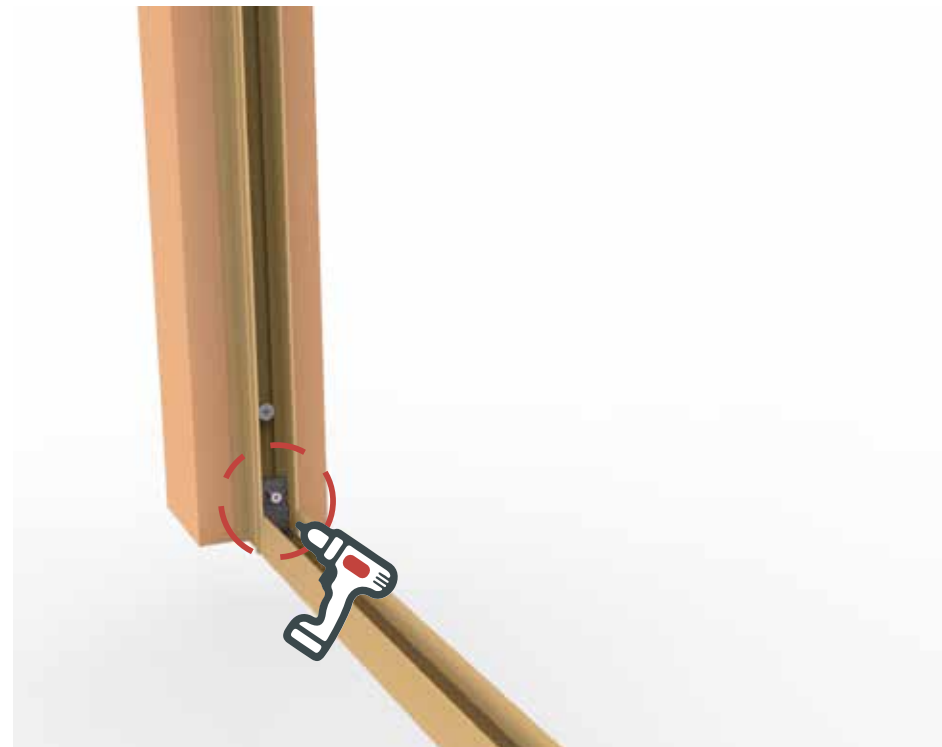
Should you wish to retrofit this solution to existing timber posts using NeoTimber composite fencing, it is important to check the dimensions of NeoTimber's timber post inserts, fence boards, screens and capping rails prior to installation to ensure all are compatible.



INSTALLATION - TIMBER POST INSTALLATION

1 Position The Post Insert Against The Timber Posts

Position the insert against the timber post, cut down to suit the length of the timber post should it be required. Pre-drill the insert and securely fix to the timber post at 4 point along its length.



2 Secure The Fencing System Using The Bottom Capping Rail And L-Bracket

Before installing your NeoTimber fence boards, install the bottom rail. See pg.21 for information on how to build your panels using NeoTimber's fence boards.

A man with a beard, wearing a bright green polo shirt and sunglasses, is shown from the chest up, leaning over a dark grey composite fence panel. He is holding the top edge of the panel with both hands. The fence is made of horizontal slats with a wood-grain texture. In the background, there are lush green trees and a clear blue sky. The overall scene is outdoors, likely in a residential yard.

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INSTALLING FENCE PANELS

NeoTimber's tongue and groove fence boards and capping rail system ensures for a secure and simple installation. This guide provides installation advice on how to build a full panel using the fence boards, as well as guidance on installing our decorative screen options.

INSTALLATION - FENCE PANEL INSTALLATION OPTIONS

NeoTimber composite fence panels can be made-up of NeoTimber fence boards entirely or can be customised using a range of screens. Installation guidance remains largely the same between these two installation options and both must include the installation of capping rails that are fixed at both the top and bottom of the fencing panel.

NeoTimber's decorative screen are an additional item that can be included into a fence panel installation. The screen sits in place of the final two boards of your fence panel and is fixed using 4 aluminium rails that house it within your panel.

We cover installation guidance on both a standard fence board installation and a fence board and screen installation. For the sake of the installation guide, illustrations depict a panel installation that uses NeoTimber's composite posts, however the same installation guidance should be followed when installing our capping rails, fence boards and screens to concrete or timber post inserts.



**Fence Panel
Installation**
pg. 22 - 25



**Fence Panel With
Screen Installation**
pg. 26 - 30

INSTALLATION - FENCE PANEL INSTALLATION

1 Install The NeoTimber Base Capping Rail Between Your Posts

Begin by securing the I-brackets into each end of the base capping rail with a hammer. Once secured, position the base rail between your two posts. Secure at either end by drilling the 4mm x 25mm self-tapping screws through the I-bracket and post.

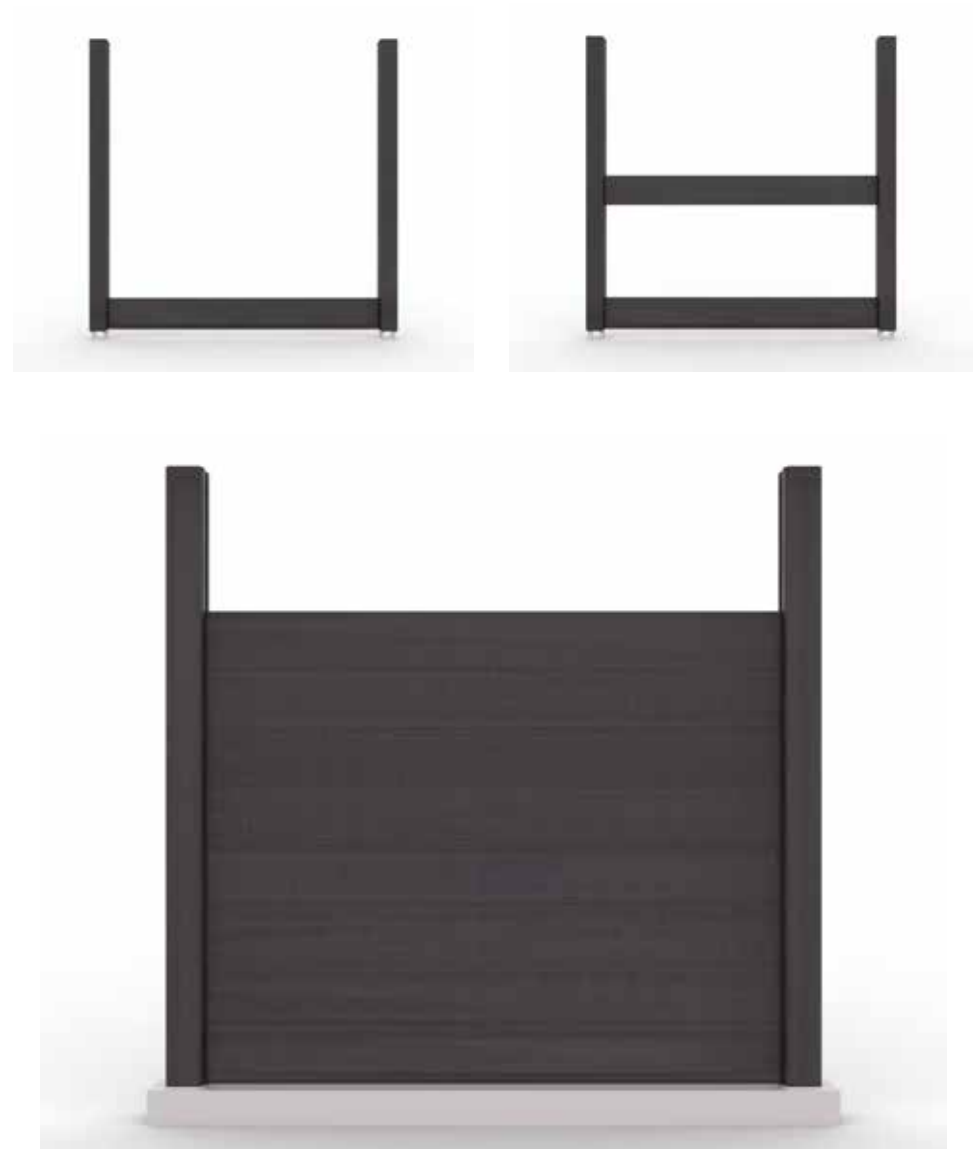


2 Insert Your Fence Boards To Build The Panel

Begin by slotting the fence boards between your posts. The tongue and grooved design allows for the boards to be easily stacked on top of one another. Ensure that the open groove of the fence board is installed facing towards the ground and that a gap of 4mm is observed between the end of the fence board and the inside of the post.

Should you be installing NeoTimber's Deluxe fence boards, care must be taken to ensure that the finish of the boards is considered when building your panels. There is a distinct woodgrain on one side of the fence board and a brushed finish on the flipside. NeoTimber recommend installing them in a uniform fashion with each finish orientated in the same direction.

Dependent on the length of your fence panel, there may be a need to cut the boards to fit. This can be done using cutting equipment that is typically used for timber.



INSTALLATION - FENCE PANEL INSTALLATION

3 Secure Your Fence Boards Using The Top Capping Rail

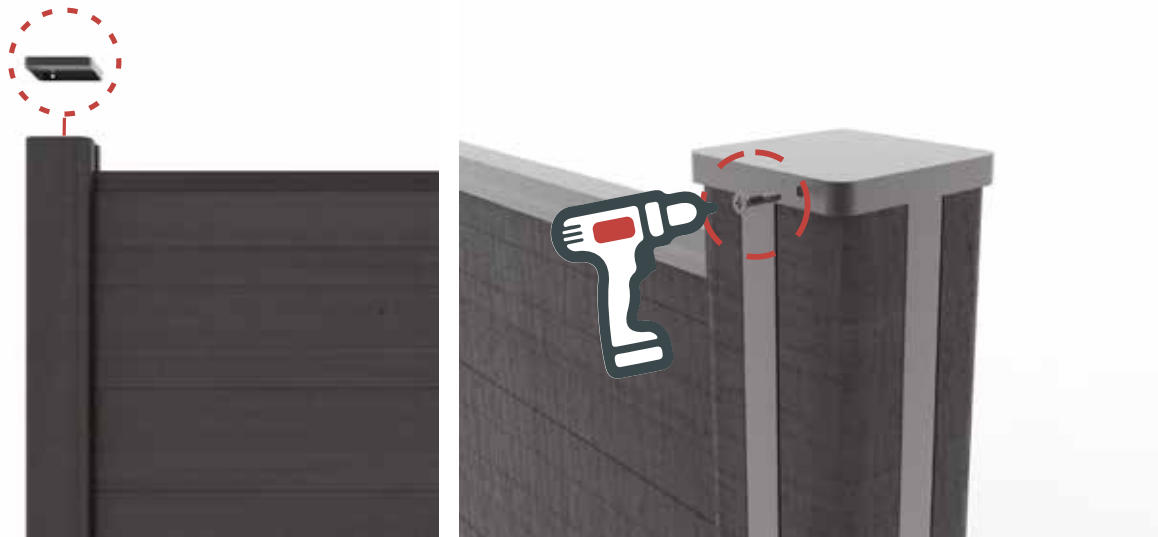
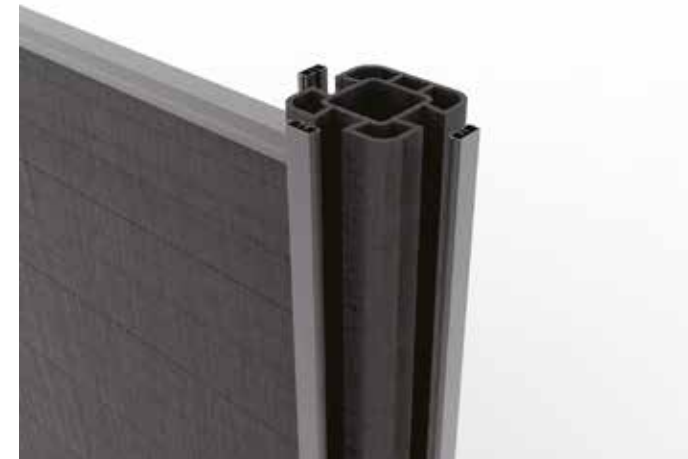
Install the top capping rail in a similar fashion to how the base capping rail was installed. Secure the I-fixing with a padded foam insert into the capping rail before placing the rail on top of the final fence board. The padded foam insert of the I-bracket should sit on top of the final fence board. Secure at either end by drilling the 4mm x 25mm self-tapping screws through the bracket and the post.



4 Insert Your Composite Post Inserts

Should you be installing your panel using NeoTimber's composite post set, composite post inserts and post caps will complete your panel installation.

Composite post inserts can be inserted into the grooved-channel of the posts. Smaller blanking strips are provided also to slot between the top capping rail and the top of the post in order to cover the I-bracket. These can be slid into place down the grooved profile of the post.



5 Fix Your Post Cap

Post caps can be installed once the composite post inserts are fitted securely. Simply sit the post cap over the composite post and secure using a colour-coded screw.

INSTALLATION - FENCE PANEL WITH SCREEN INSTALLATION

1 Install The NeoTimber Base Capping Rail Between Your Posts

Begin by securing the I-brackets into each end of the base capping rail with a hammer. Once secured, position the base rail between your two posts. Secure at either end by drilling the 4mm x 25mm self-tapping screws through the I-bracket and post.

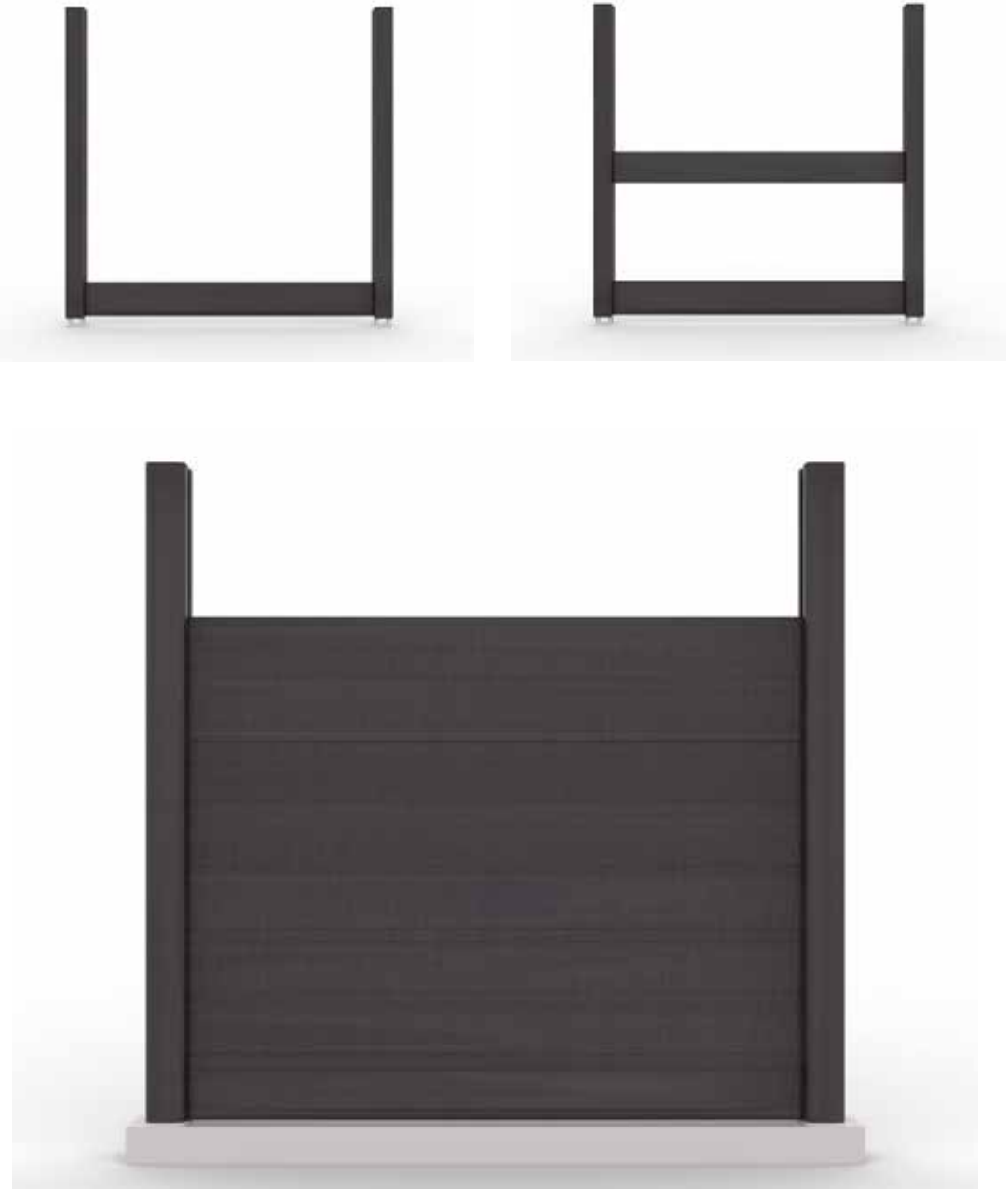


2 Insert Your Fence Boards To Build The Panel

Begin by slotting the fence boards between your posts. The tongue and grooved design allows for the boards to be easily stacked on top of one another. Ensure that the open groove of the fence board is installed facing towards the ground and that a gap of 4mm is observed between the end of the fence board and the inside of the post.

Should you be installing NeoTimber's Deluxe fence boards, care must be taken to ensure that the finish of the boards is considered when building your panels. There is a distinct woodgrain on one side of the fence board and a brushed finish on the flipside. NeoTimber recommend installing them in a uniform fashion with each finish orientated in the same direction.

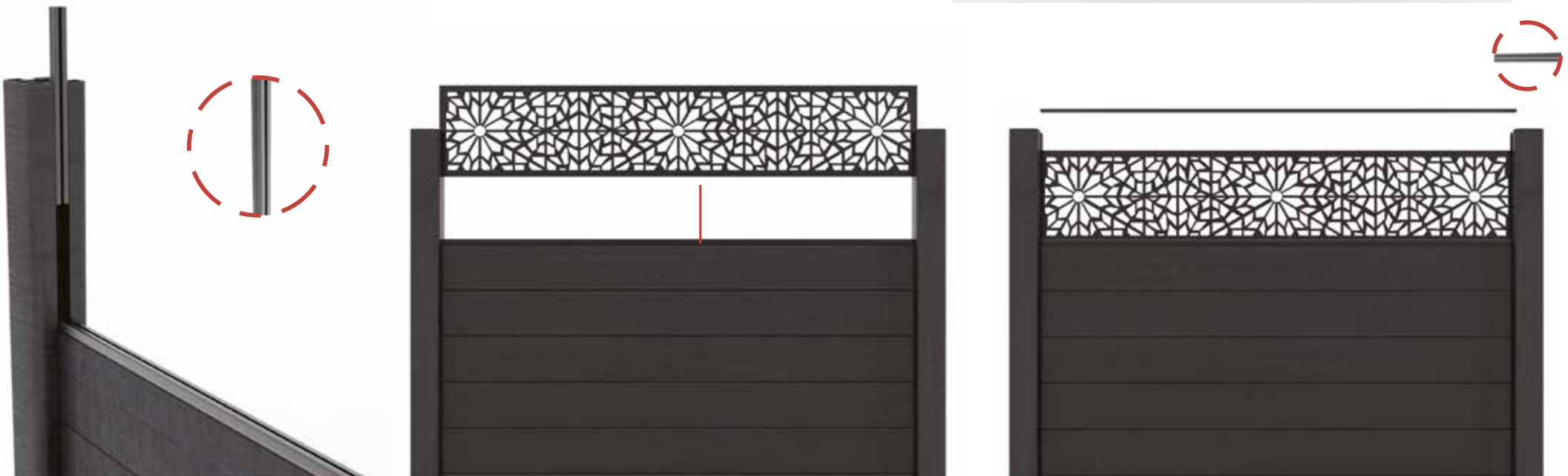
Dependent on the length of your fence panel, there may be a need to cut the boards to fit. This can be done using cutting equipment that is typically used for timber.



3 Install NeoTimber's Screens Using Aluminium Rails

Once your final fence board has been slotted into place, sit the opening on the underside of the screen base rail over the tongue of your final fence board.

Place the side rails into the grooved opening of the posts on each side of your panel. Then, slide the decorative screen into place, ensuring the profile sits tight into the aluminium rails. Sit the top rail over the screen.



INSTALLATION - FENCE PANEL WITH SCREEN INSTALLATION

4 Secure Your Fence Boards Using The Top Capping Rail

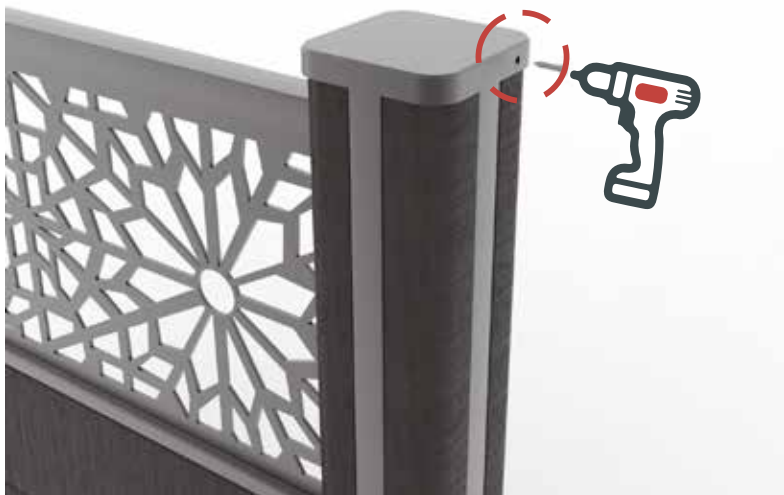
Install the top capping rail in a similar fashion to how the base capping rail was installed. Secure the I-fixing with a padded foam insert into the capping rail before placing the rail on top of the decorative screen. The padded foam insert of the I-bracket should sit on top of the aluminium rail used to secure the top of the screen. Secure at either end by drilling the 4mm x 25mm self-tapping screws through the bracket and the post.



5 Insert Your Composite Post Inserts


Should you be installing your panel using NeoTimber's composite post set, composite post inserts and post caps will complete your panel installation.

Composite post inserts can be inserted into the grooved-channel of the posts. Smaller blanking strips are provided also to slot between the top capping rail and the top of the post in order to cover the I-bracket. These can be slid into place down the grooved profile of the post.



6 Fix Your Post Cap

Post caps can be installed once the composite post inserts are fitted securely. Simply sit the post cap over the composite post and secure using a colour-coded screw.



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COMPOSITE FENCING

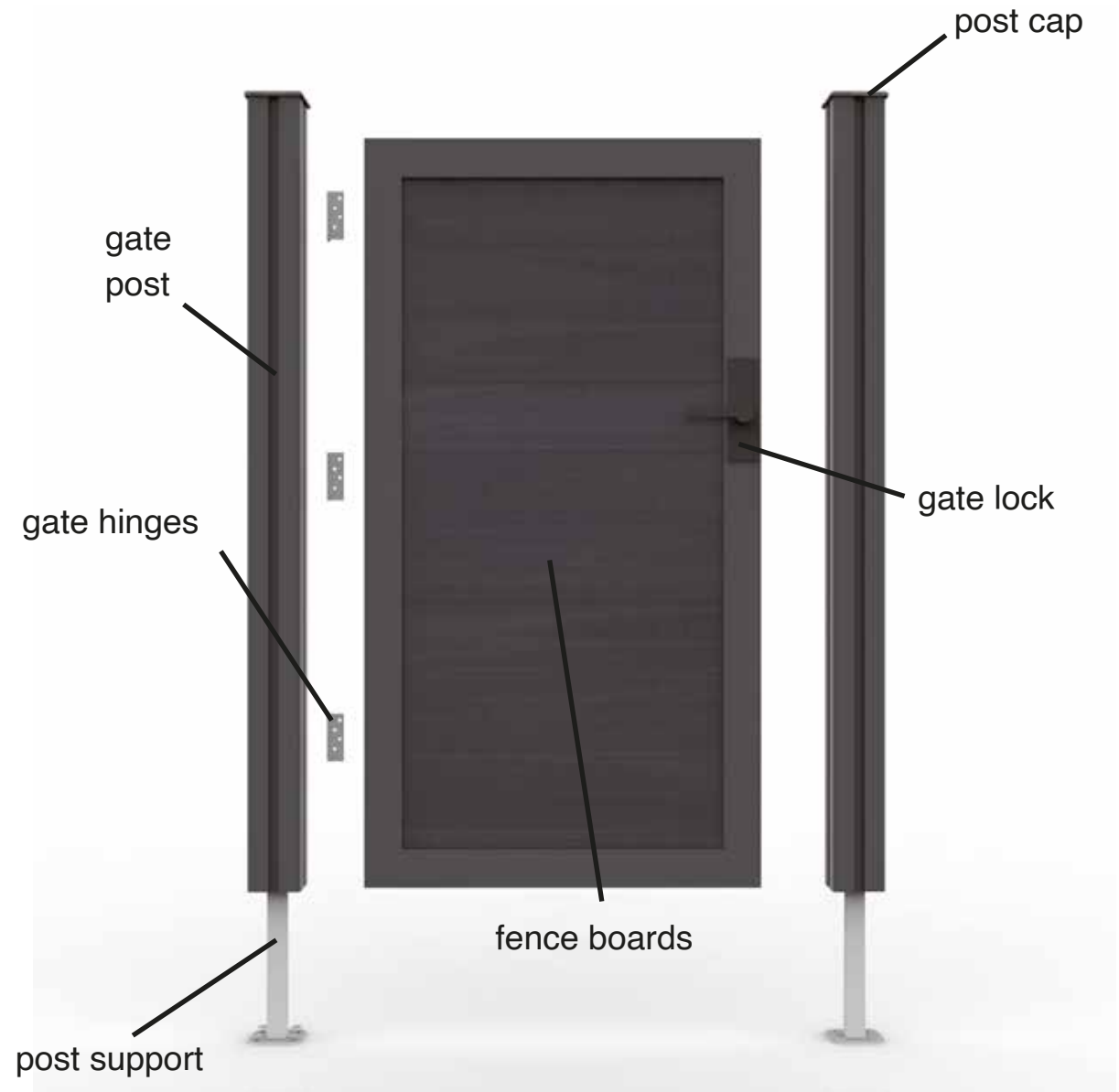
INSTALLING **COMPOSITE GATES**

Composite gates are an ancillary option built from NeoTimber's fence boards that are housed in a colour-matched aluminium frame. This guide takes you through installation of the gate posts, the hinge fixing and frame mount, as well as the aluminium gate handle.

INSTALLATION - COMPOSITE GATE INSTALLATION

NeoTimber's composite gate comes with a set of 2 aluminium posts, that include a post support for hard ground and a colour-matched post cap; a set of hinges; a handle, lock and gate keep; as well as the gate frame that houses NeoTimber's composite fence boards.

The product is designed to be installed as an extension of NeoTimber's composite fencing system, but can equally be used as a standalone product. The installation steps provided should be followed regardless of the application of your fencing gate.



1 Position And Install Your Composite Gate Posts

Begin by spacing your gate post supports at 1040mm centres. Use a spirit level to ensure the post supports sit completely flat on the solid base.

Once the post supports are positioned correctly, clearly mark the four screw hole positions. Pre-drill 12mm x 60mm fixing holes and fix a raw plug to suit. Securely fasten the post support using the supplied 80mm expansion bolts and tighten with a wrench.

Place the aluminium gate post over your post support, using a spirit level to ensure the post remains straight. One post will be positioned to take the gate post hinges, the other to accept the gate keep.



2 Install Your Gate Hinges And Hang The Gate Frame

Install your gate post hinges to the inside of the post you wish to hang the gate onto. Securely fix the 3 gate hinges to your post using the supplied screws. Space the three hinges equally along the length of the post.

Position and fix the gate frame to the hinges using the fixings provided.



3 Position The Lock, Handle And Gate Keep

Because the gate design allows the lock, handle and gate keep to be installed on either side of the post, you will be required to machine cut the aluminium frame and post in order to install this mechanism.

Start off by considering where a suitable place along the frame you would wish the handle and lock to sit. We recommend choosing a comfortable height and using the component dimensions on pg.35 to guide where to cut and drill along the length of the gate frame and post.

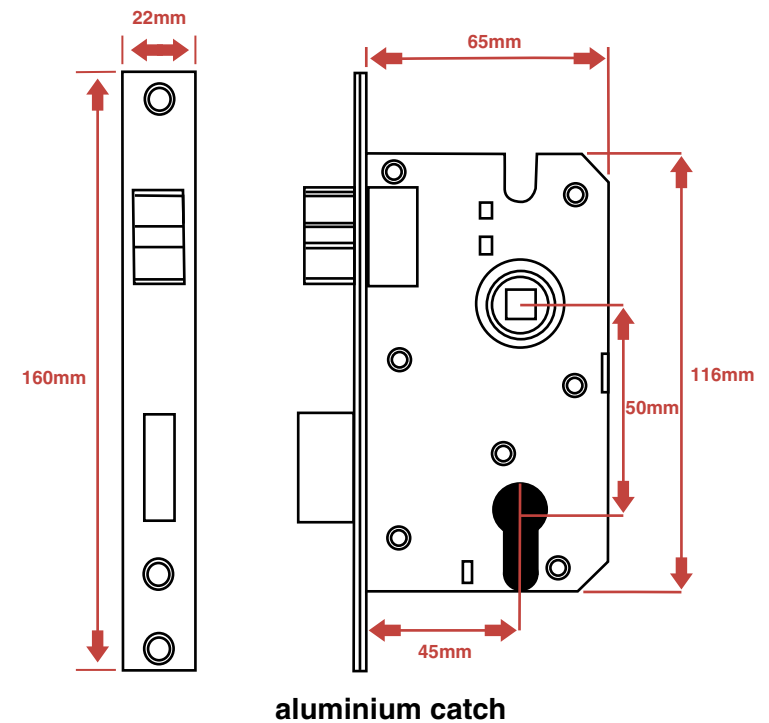
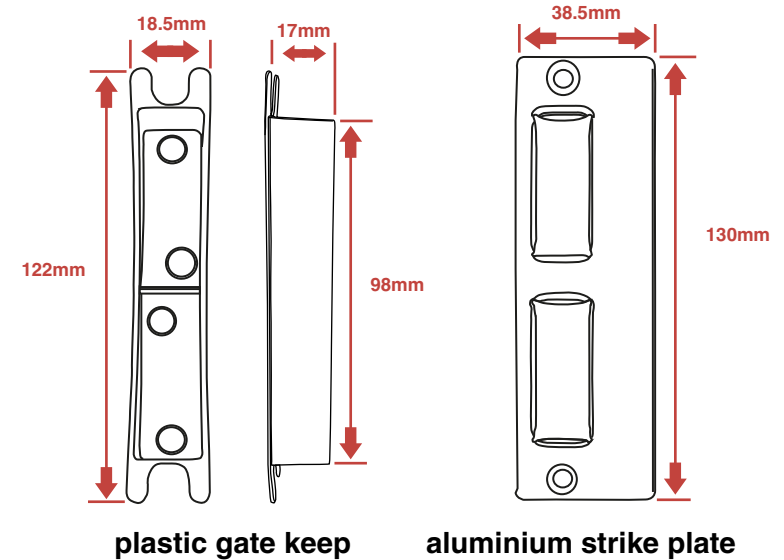


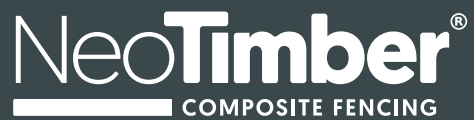
INSTALLATION - COMPOSITE GATE INSTALLATION

4 Fix The Gate Keep To Your Post And The Lock And Handle To Your Gate Post

Position and install the lock keep into the aluminium gate post by firstly pre-drilling two holes at the base and top of where you wish the aluminium strike plate to sit along the post. Use the strike plate as a marker to position the fixings. Then, machine a slot 98mm x 18mm into the post in order to sit the plastic gate keep into the post. Cover by fixing the aluminium strike plate using the screws provided.

Install the catch by machining a slot of 116mm x 12.5mm into the gate frame. Sit the catch mechanism within the frame and fix through the 3 fixing holes along its length into the gate frame. Use the internal dimensions provided in order to cut through the frame and position your lock and the door handle.





FENCING CLEANING & **CARE GUIDE**

The material make-up of NeoTimber's composite fencing and gate products, as well as the marine grade aluminium ancillary items, make the product easy to maintain. To ensure your product performs for a number of years and remains looking at its best, we advise following our cleaning and care guide.

Routine Cleaning

Though NeoTimber's composite fencing is incredibly long lasting, afforded by an unbeatable 25 year residential warranty, it will still need a basic wipe down every 6 months or so to keep it looking the best it can be after its initial installation. We recommend using a soft bristled brush to brush away any dry surface dust or dirt. Following this, with a sponge and a bucket of soapy water, you should be able to easily remove any surface marks or stains.

Stubborn Spot Stains

Should any marks persist, you may have to be slightly more vigorous with how you clean the panels. Using Compo-Cleaner, these stronger stains should be lifted from the board's surface. Alternatively, you can use a pressure washer, being careful not to stand any closer than 250mm away from the surface of the boards to avoid damage. If you have soil or planting in front of your fencing, be mindful of churning up any soft earth with the water, as it may splatter onto your fencing, meaning you will have to start the cleaning process all over again!

Water Staining

Thankfully, both our Deluxe and Slatted composite fencing boards are capped with an additional polymer sleeve, meaning any kind of water staining will be incredibly rare. However, should water staining occur, there are straightforward ways to remove the marks. Again, simply using warm, soapy water, you should be able to lift these stains with relative ease. Water marks and staining will eventually start to gradually disappear naturally as the boards are exposed to rainwater, so do not panic should these marks occur.

Surface Mildew & Mould Growth

All outdoor surfaces can be susceptible to the growth of mould or mildew due to moisture and weathering. Again, the capped surface of NeoTimber's composite fencing makes it highly resistant to any mould or mildew growth. In the rare instance that any such growth does occur, it can easily be removed following the simple general cleaning steps outlined on this page.

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 COMPOSITE FENCING

For more helpful information on installing your fencing or
any of our other products please visit neotimber.com

e: enquiries@neotimber.com | **t:** 01509 323 170 | **w:** neotimber.com