



# SOLID PANEL FENCING



**BelAire<sup>®</sup>**  
DESIGNER FENCING

*...make it your own!*



# SOLID ACOUSTIC PANEL FENCING

In today's world, noise reduction is one of the leading concerns across New Zealand home owners. The BelAire range of acoustic fences and noise barriers have been specifically engineered to meet the acoustic demands of our modern world.

We handle a variety of noise reduction concerns; from general neighbourhood noise, to road noise, to high-performance noise absorption enclosures for pool pumps and HVAC units. On average, our acoustic fences and road noise barriers typically achieve a 20-30dB reduction (depending on noise source and noise type), which equates to a quartering of loudness.

Understanding 'loudness', or the human perception of sound, can be tricky; but you can test just how much different this makes with the simple help of a video and its volume controls. First, watch the video at 100% volume. Then, reduce the volume to 25%; this is the potential noise reduction that our acoustic fences offer.

Put the controls back into your hands; turn down the volume of loud neighbours and traffic noise today.

## ACOUSTIC FENCING

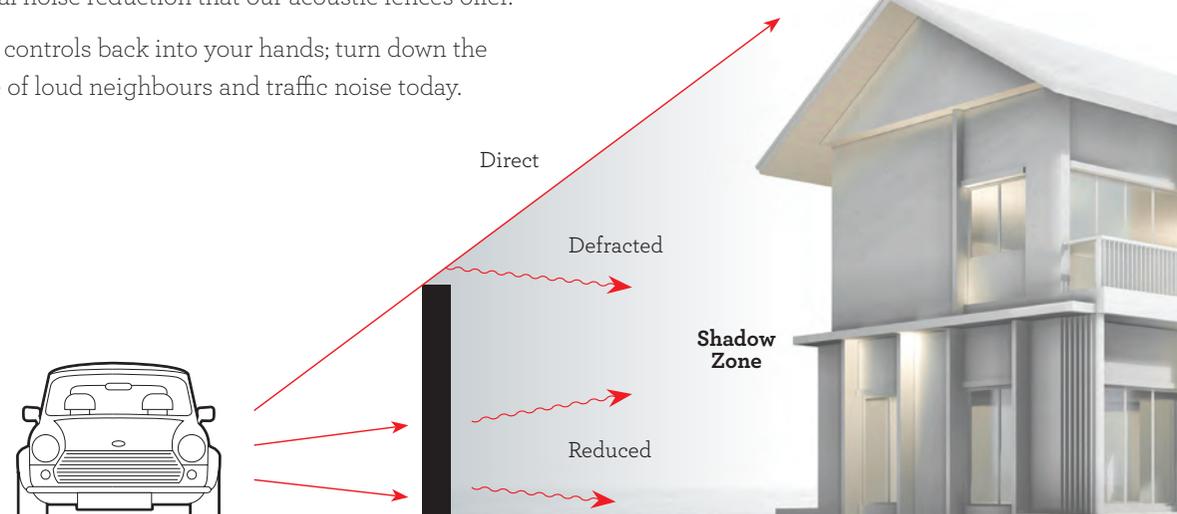
BelAire solid wall systems are acoustically tested and rated, keeping all unwanted surrounding noises at bay and providing peace and quiet for your home.

## ECO FRIENDLY

Our innovative products are made of recyclable materials, with our manufacturing processes reducing emitted and embodied CO<sub>2</sub> by up to 80%.

## NZ MADE

All BelAire Walls products are NZ designed and manufactured to strict international quality standards.





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DESIGNER FENCING

*...make it your own!*

# SOLID PANEL FENCING

## MODULAR SYSTEM

BelAire solid panel fencing is the most advanced modular fencing system available in New Zealand today.

## DESIGNED BY YOU

With the Classic, Signature and Estate styles to choose from, you can design your fence to suit your lifestyle. Our fences and posts are all fully paintable so that you can complement or match the colour of your property.

You can also add stylish slat, louvre, tubular or glass infills, plus there is a choice of post and capping - the options for your fence are only limited by your imagination.

## COST-EFFECTIVE

BelAire solid panel fencing has all the properties of a block wall at a fraction of the cost and mess! Once coated, BelAire fencing will look just as good as a block wall.

## BUILT TO LAST

Our pre-primed, galvanized, high-tensile support posts are very light yet structurally very strong. Our EPS/fibre cement panels are designed to withstand the typical demands placed on a fence in any environment.

## EASY (DIY) INSTALLATION

Our fences are designed to be assembled with ease. There is no need for heavy construction and digging equipment, or cranes - BelAire panels can be easily handled by two people. They are easy to install in difficult-to-access areas such as back yards or annexed ground.

**We provide step by step self-install instructions that any competent DIY person should be able to follow,** but if you'd rather get someone else to install it, we have a list of preferred installers throughout NZ. Call us on 0800 235 2473 and we will put you in touch with an installer in your area.

## WARRANTY

New Zealand-made and 10 year warranty information. Be assured that with very little maintenance your fence will give you great privacy and security for many years to come. Only the finest raw materials have been used in the construction of your fence. The suppliers of these raw materials state that they have a design life well in excess of 20 years. With this assurance we offer you a replacement warranty for any component of your new fencing if it fails within 10 years\* from date of purchase.



\*2yr Warranty within a 1500m sea spray zone.

# Karaka Pines Retirement Village

**Karaka Pines Retirement Village in Rototuna, Hamilton, asked for an aesthetically pleasing boundary fence with noise reduction and privacy benefits.**

Project Specifications:

**Estate Wall**

314m x 1.8m high

**Exposed Capping, Solid/Slat Bays**

900mm high with 900mm high of vertical 85mm slats with 33mm gaps

**Colour**

Painted double concrete, slats powder coated grey friars

**Client:** Karaka Pines Group Limited

**Architect:** Boffa Miskell

**Landscaper:** Evergreen Landcare LTD



# One88 On Commerce

**One88 on Commerce** motel needed a noise barrier wall that looked great, as it is on a corner of a busy street. BelAire outfitted the motel with an **acoustic barrier** to separated them from the street and small wing units **between the motel rooms** to create privacy and provide shade.

Project Specifications:

**Client:** One88 On Commerce

**Signature Wall/ Slat Infill for small wings**

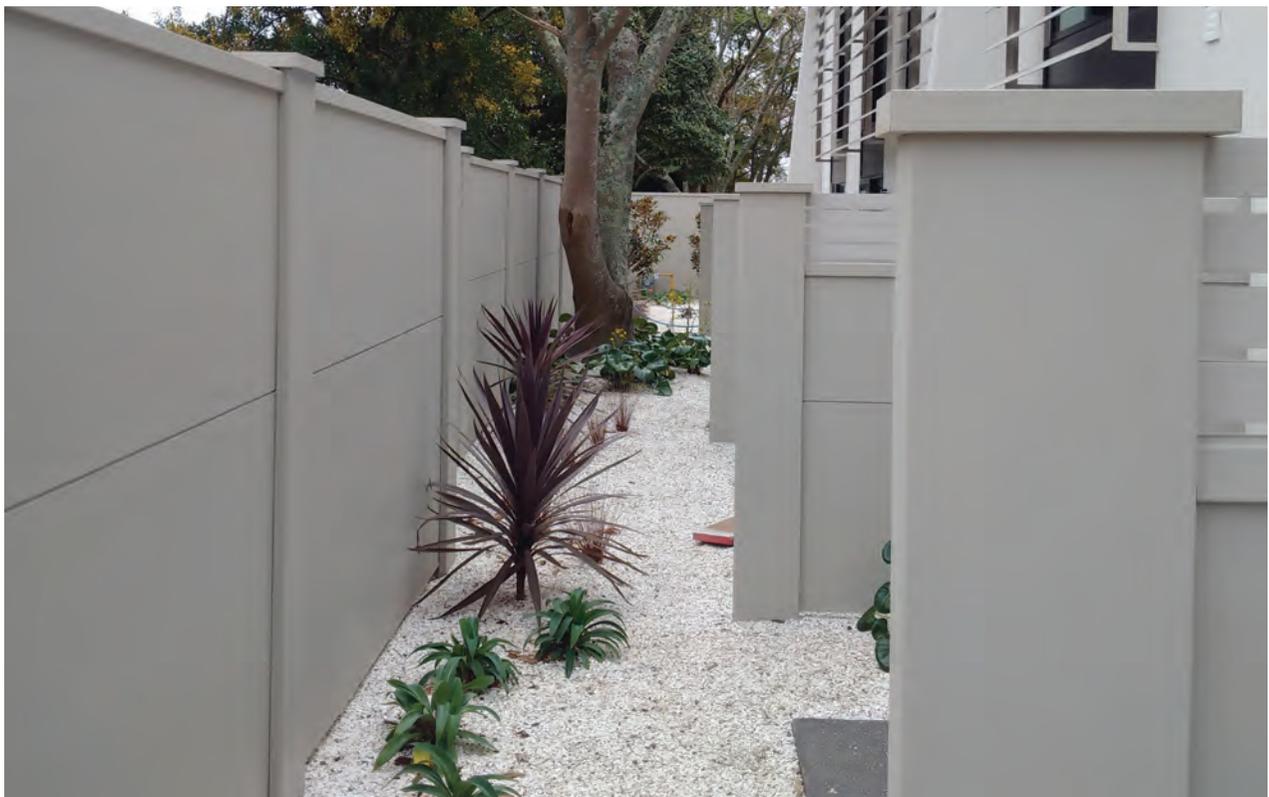
2100mm and 1800mm high

**Exposed Capping, Solid/Slat Bays**

230m

**Colour**

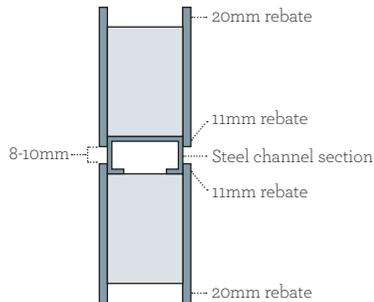
Clay



# SOLID PANEL FENCING

## EXPOSED JOIN OR CLOSED JOIN ?

An exposed join is recommended – it is more forgiving if you haven't quite got the panels 100% level, and also gives a much more attractive result.

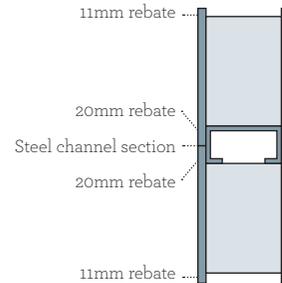


### << How to achieve a exposed join

Insert the steel channel section into the 11mm rebate in the panels

### How to achieve a standard join >>

Insert the steel channel section into the 20mm rebate in the panels



## NOISE BARRIER

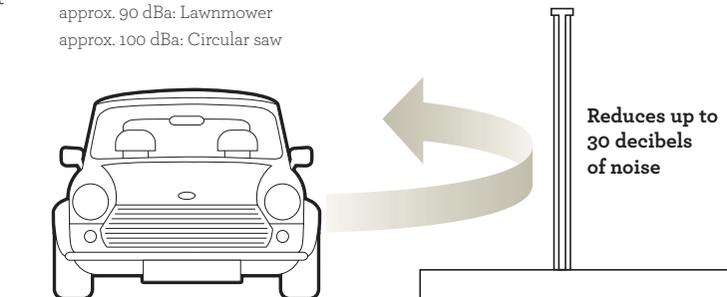
Our patented solid Poly-Fibre Cement composite sandwich panels are designed to reflect noise. The acoustic performance of this product was evaluated by the Acoustics Research Group at the University of Canterbury and a comprehensive report is available on request.

### TYPICAL TRAFFIC NOISE – 12m from road edge

approx. 60 dBa: 2-lane urban road, 6,000 vehicles per day @ 50kph  
approx. 68 dBa: 4-lane motorway, 25,000 vehicles per day @ 100kph

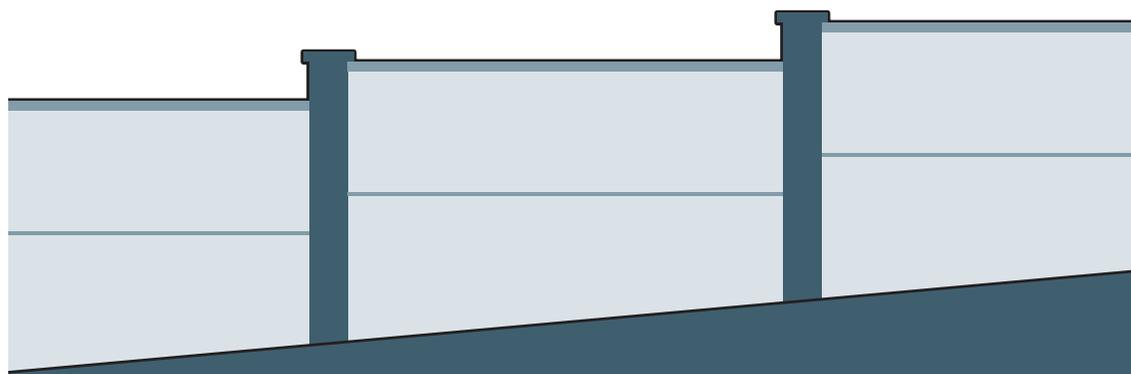
### TYPICAL OTHER NOISE

approx. 90 dBa: Lawnmower  
approx. 100 dBa: Circular saw



## THE ALL-TERRAIN FENCE

BelAire solid panels can be easily cut using a circular saw with a timber blade. This will allow you to easily and neatly follow the terrain of your property.



# CLASSIC

Post dimensions: 120mm (deep) x 180mm (face) 0.95 mm BMT

Panel thickness: 50mm

Density of composite panel materials: 15.49kg/m<sup>2</sup>

Suitable for fence heights: 900mm - 2400mm

Post centres: 2530mm, 2830mm, 3130mm

The classic fence is the most cost effective of the styles and most commonly used in residential boundary/screening fence applications. Suitable for less challenging terrain, this style of fence will provide great sound reduction qualities. Also suited to lower fence designs - 1200mm and 1500mm high.



# SIGNATURE

Post dimensions: 140mm (deep) x 280mm (face) 0.95 mm BMT

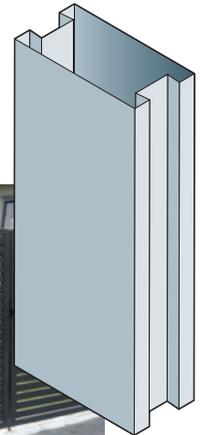
Panel thickness: 70mm

Density of composite panel materials: 15.49kg/m<sup>2</sup>

Suitable for fence heights: 900mm - 3000mm

Post centres: 2630mm, 2930mm, 3230mm

The Signature fence, our most popular line, is most commonly used where a true masonry wall look is desired, or in a commercial and residential security/sound fence application. The fence has superb sound reduction qualities (National Acoustic Laboratory tested).



# ESTATE

Post dimensions: 210mm (deep) x 320mm (face) 0.95 mm BMT

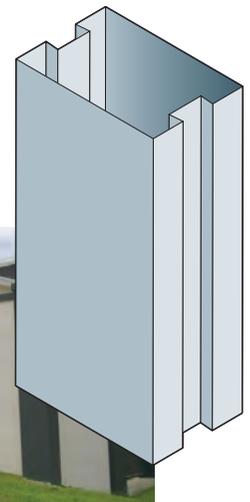
Panel thickness: 70mm

Density of composite panel materials: 15.49kg/m<sup>2</sup>

Suitable for fence heights: 900mm - 3000mm

Post centres: 2670mm, 2970mm, 3270mm

The Estate fence is most commonly used where a 'Grand' masonry wall look is desired. The post face is equivalent to a brick and a half in width, and the fence has superb sound reduction qualities (National Acoustic Laboratory tested).



# CLASSIC

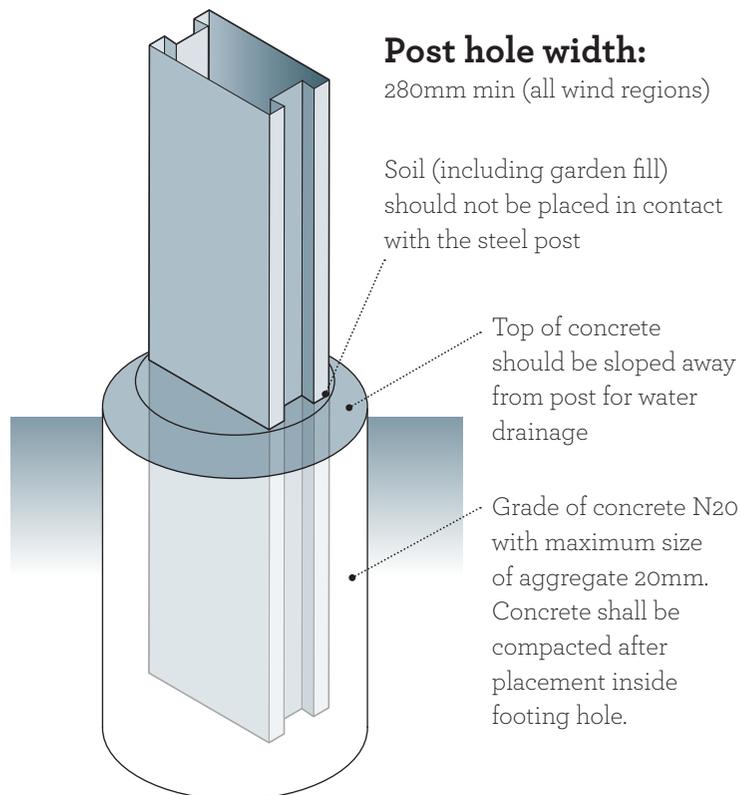
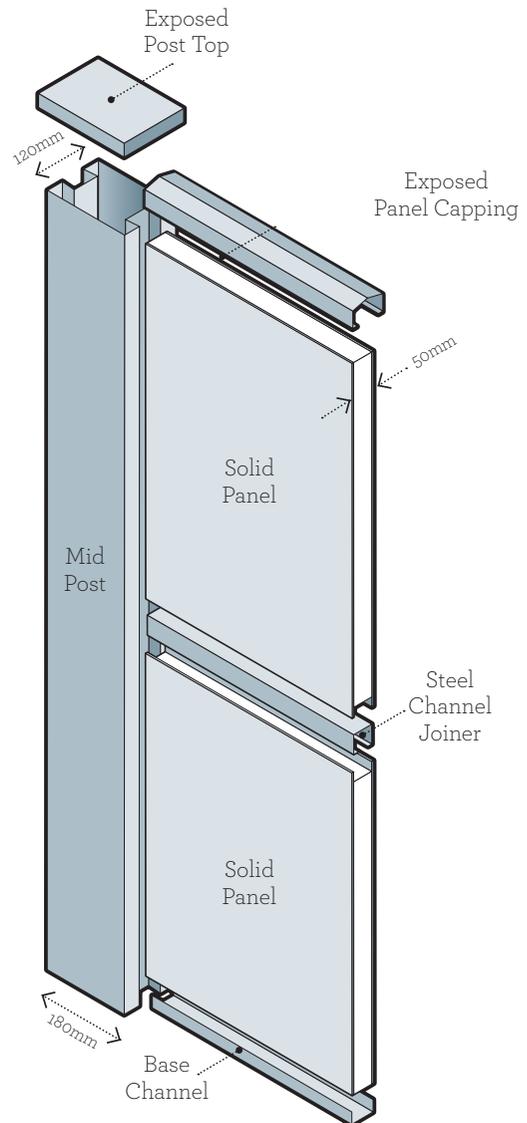
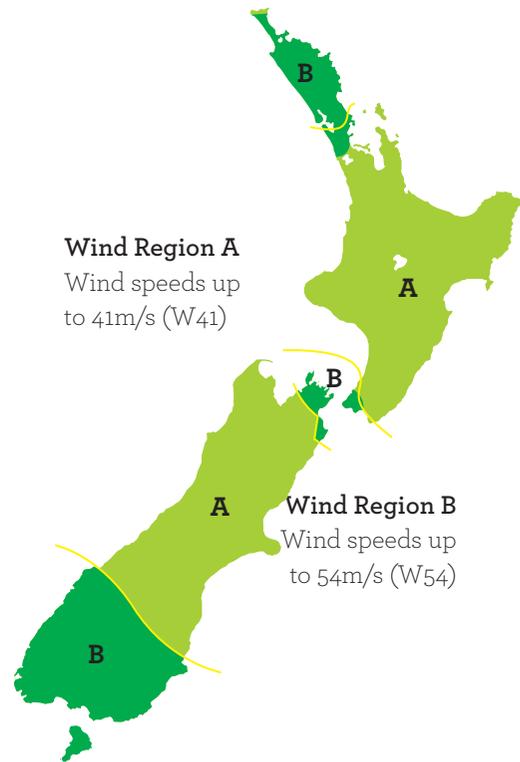
## SPECIFICATIONS

### Centre to centre guide

Panel length	Post hole centres
2400mm >	2530mm
2700mm >	2830mm
3000mm >	3130mm

### Post hole depth guide Wind Regions A&B

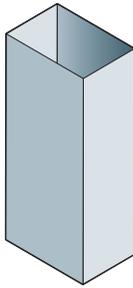
Hole depth into firm earth or clay	Fence height	Hole depth into sand, soft clay or loose earth
450mm >	900mm >	550mm
550mm >	1200mm >	650mm
600mm >	1500mm >	700mm
650mm >	1800mm >	800mm
700mm >	2100mm >	900mm



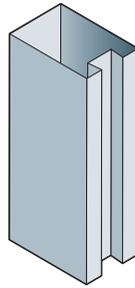
# CLASSIC

## PRE-PRIMED STEEL COMPONENTS

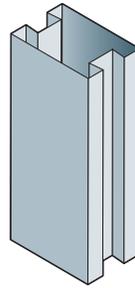
**Pillar**  
 120mm (deep)  
 × 180mm (face)  
 × length subject to fence  
 height plus post hole depth



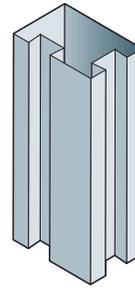
**End Post**  
 120mm (deep)  
 × 180mm (face)  
 × length subject to fence  
 height plus post hole depth



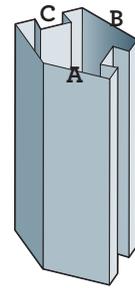
**Mid Post**  
 120mm (deep)  
 × 180mm (face)  
 × length subject to fence  
 height plus post hole depth



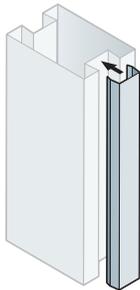
**90° Post**  
 120mm (deep)  
 × 180mm (face)  
 × length subject to fence  
 height plus post hole depth



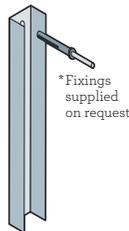
**45°/Custom Angle Post**  
 115mm (A) × 117mm (B)  
 × 120mm (C)  
 × length subject to fence  
 height plus post hole depth



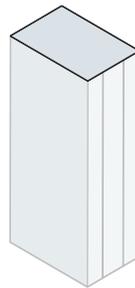
**Post Infill**  
 30mm (deep)  
 × 50mm (face)  
 × length subject to  
 fence height



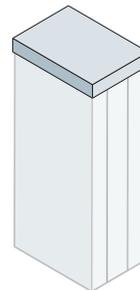
**Wall Mount  
 Channel &  
 Masonry Anchor\***  
 30mm (deep)  
 × 52mm (back face)  
 × length subject to  
 fence height



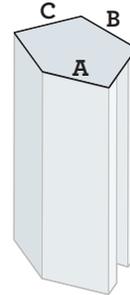
**Flush Post Top**  
 120mm (deep)  
 × 180mm (face)  
 × 20mm (leg height)



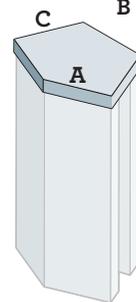
**Exposed Post Top**  
 170mm (deep)  
 × 240mm (face)  
 × 40mm (height)



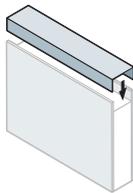
**Flush 45°  
 Post Top**  
 110mm (A) × 115mm (B)  
 × 118mm (C)  
 × 20mm (leg height)



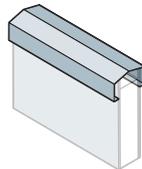
**Exposed 45°  
 Post Top**  
 145mm (A) × 145mm (B)  
 × 155mm (C)  
 × 40mm (height)



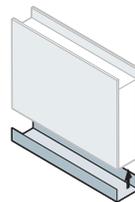
**Flush Panel  
 Capping**  
 20mm (leg height)  
 × 51mm (top face)  
 × length subject to  
 panel length



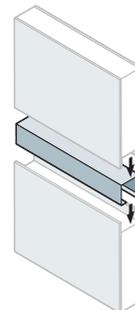
**Exposed Panel  
 Capping**  
 45mm (leg height)  
 × 80mm (top face)  
 × length subject to  
 panel length



**Base Channel**  
 20mm (leg height)  
 × 51mm (face)  
 × length subject to  
 panel length



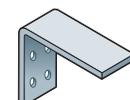
**Steel Channel Joiner**  
 30mm (deep) × 40mm (face)  
 × length subject to  
 panel length



**Tek Screw**  
 10/16 galvanised  
 tek screw  
 16mm (length)



**Support Bracket**  
 35mm (deep)  
 × 40mm (face with holes) ×  
 48mm (wide)



### CLASSIC INFILL PANELS

Slat and tubular infills are also available to enhance your fencing. Please refer to the individual infill pages later in this section.

# SIGNATURE

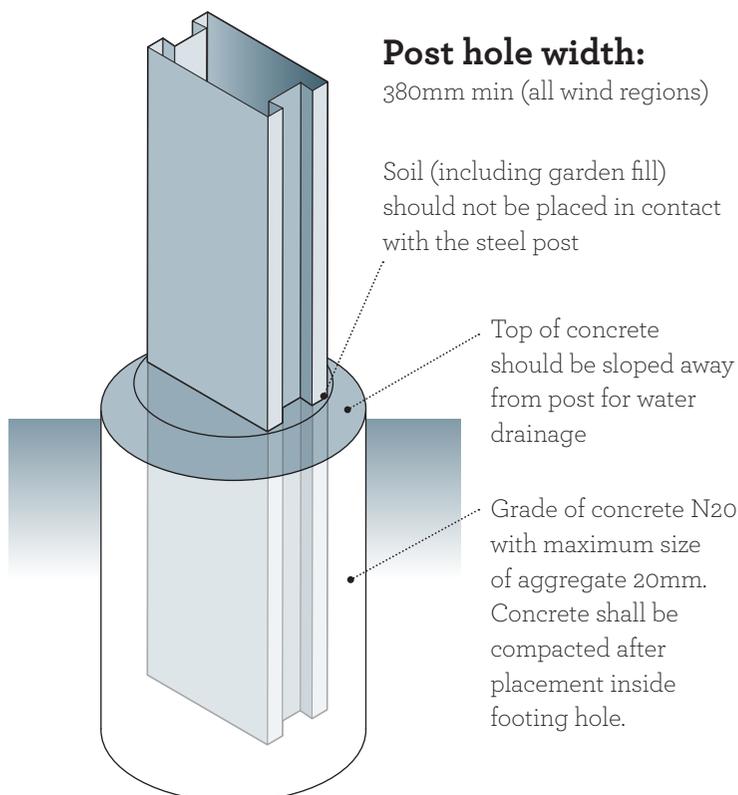
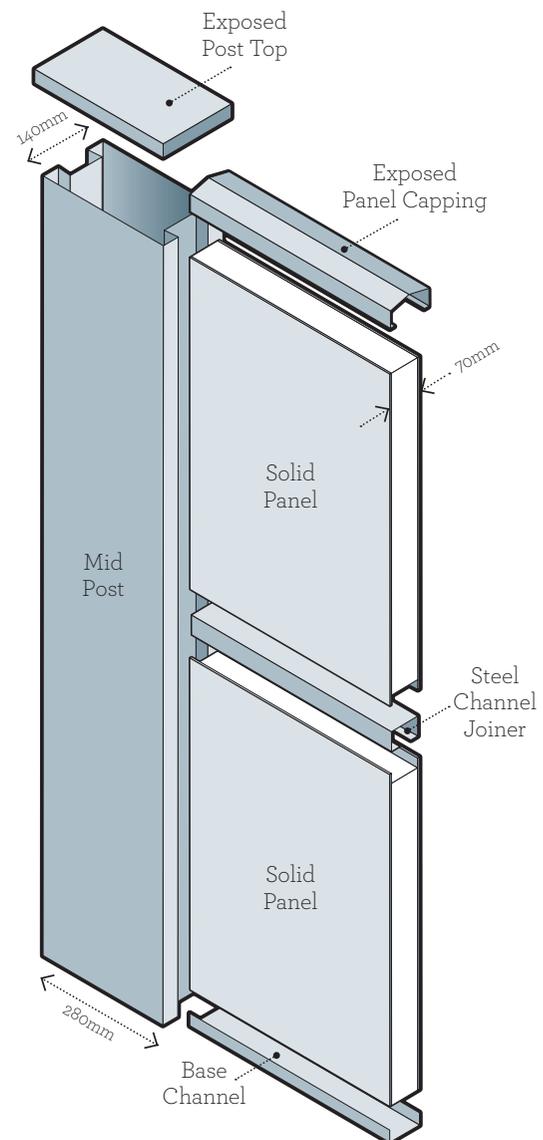
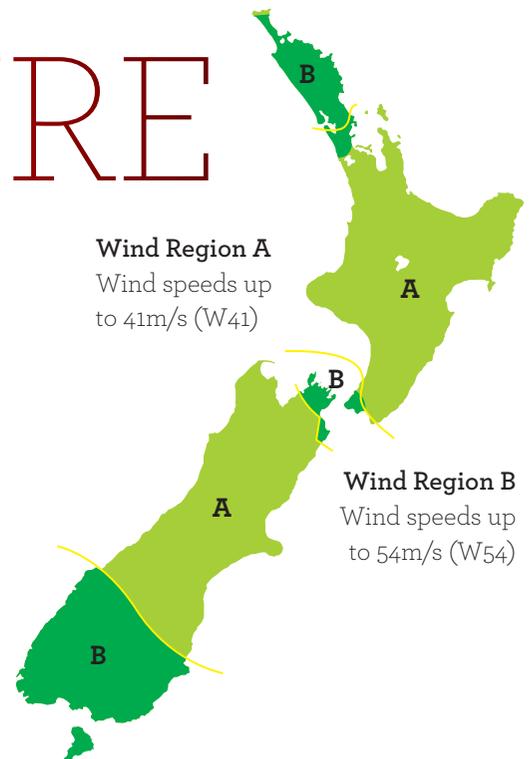
## SPECIFICATIONS

### Centre to centre guide

Panel length	Post hole centres
2400mm >	2630mm
2700mm >	2930mm
3000mm >	3230mm

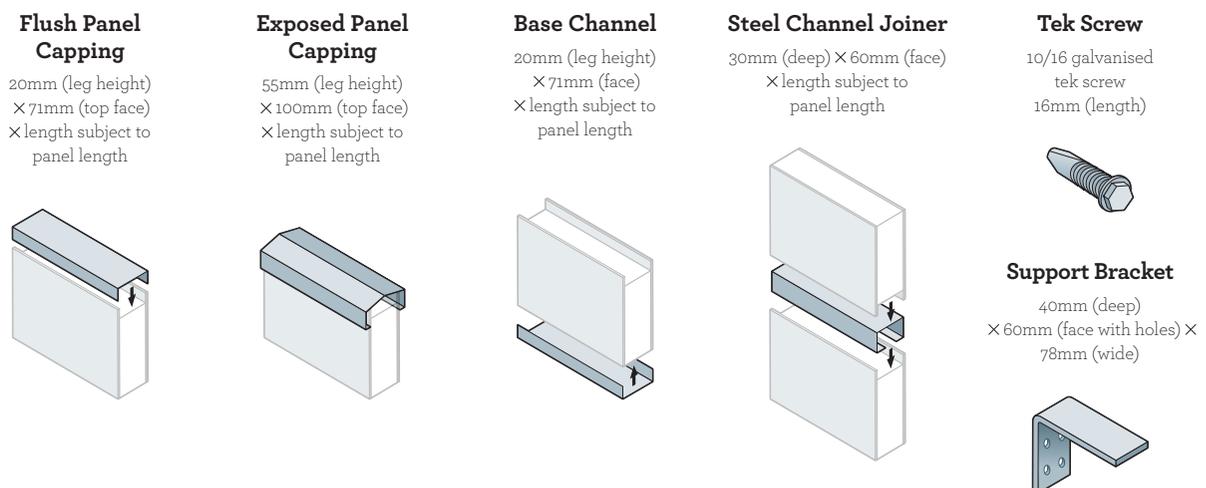
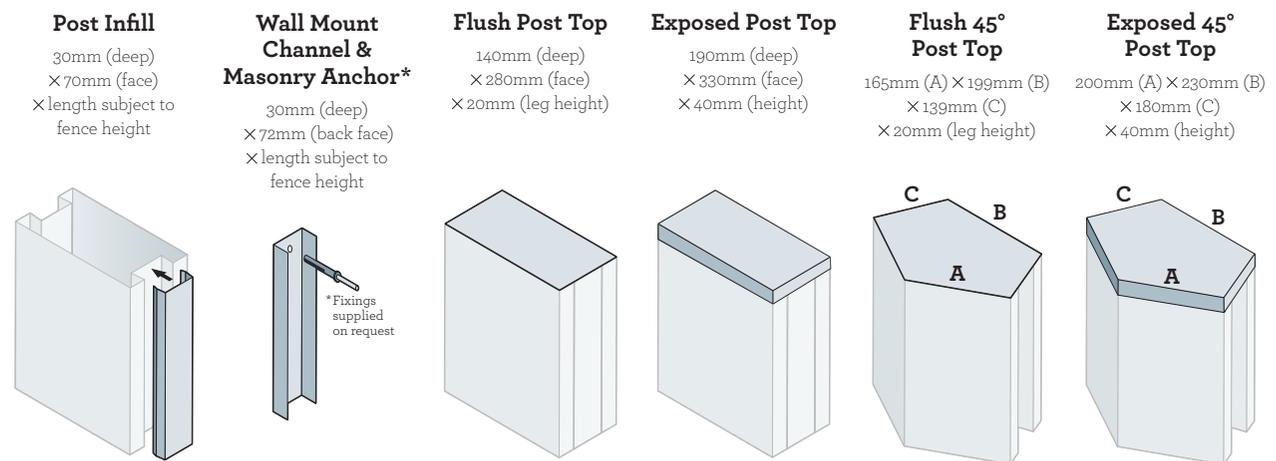
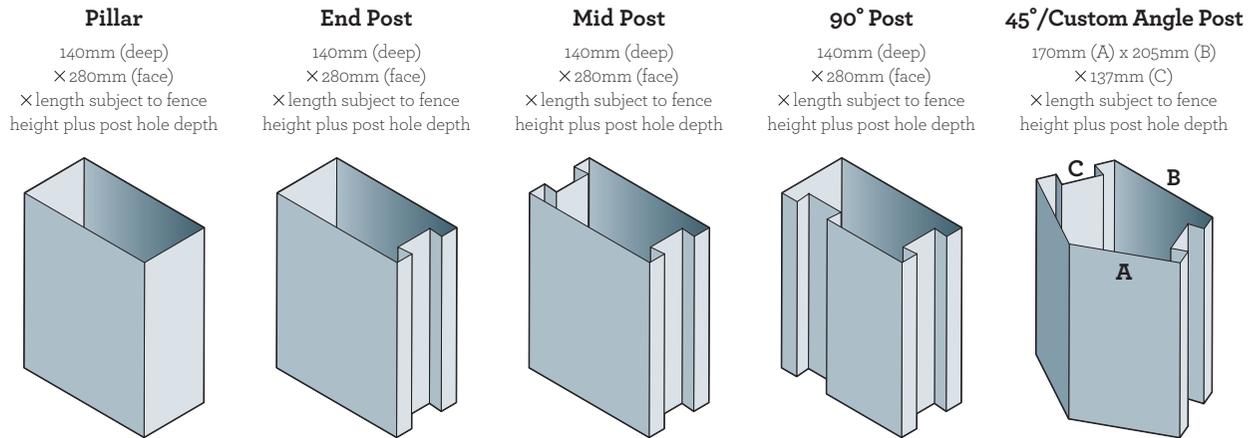
### Post hole depth guide Wind Regions A&B

Hole depth into firm earth or clay	Fence height	Hole depth into sand, soft clay or loose earth
450mm >	900mm >	550mm
550mm >	1200mm >	650mm
600mm >	1500mm >	700mm
650mm >	1800mm >	800mm
700mm >	2100mm >	900mm
800mm >	2400mm >	1000mm
900mm >	2700mm >	1100mm
1000mm >	3000mm >	1200mm



# SIGNATURE

## PRE-PRIMED STEEL COMPONENTS



### SIGNATURE INFILL PANELS

Slat, louvre, tubular and glass infills are also available to enhance your fencing. Please refer to the individual infill pages later in this section.

# ESTATE

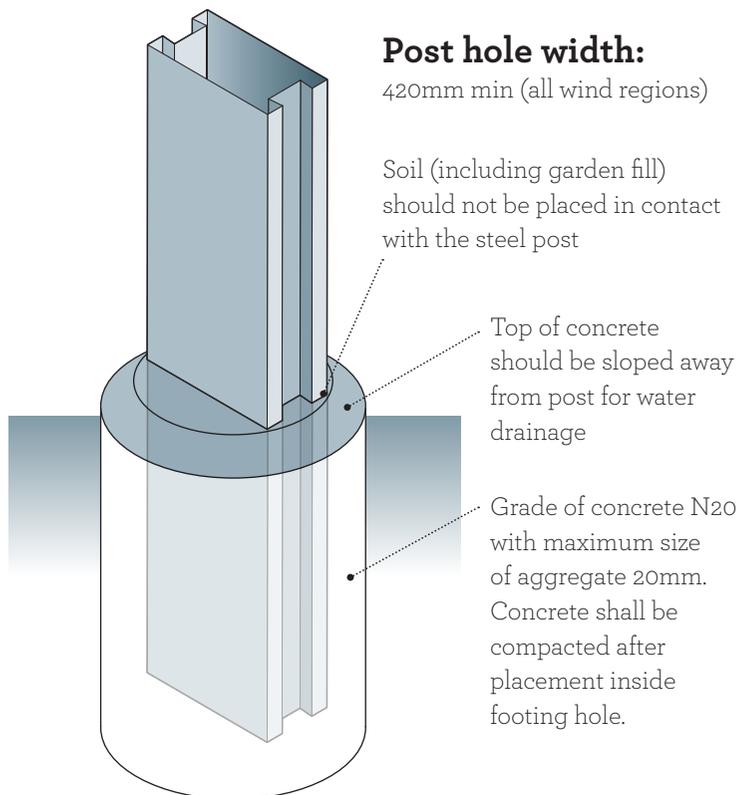
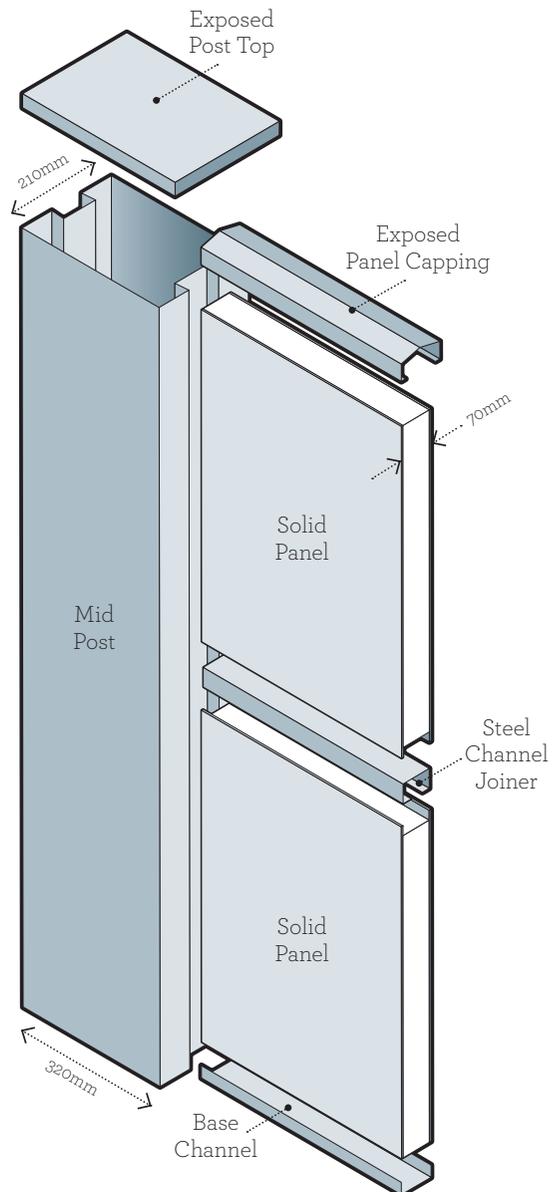
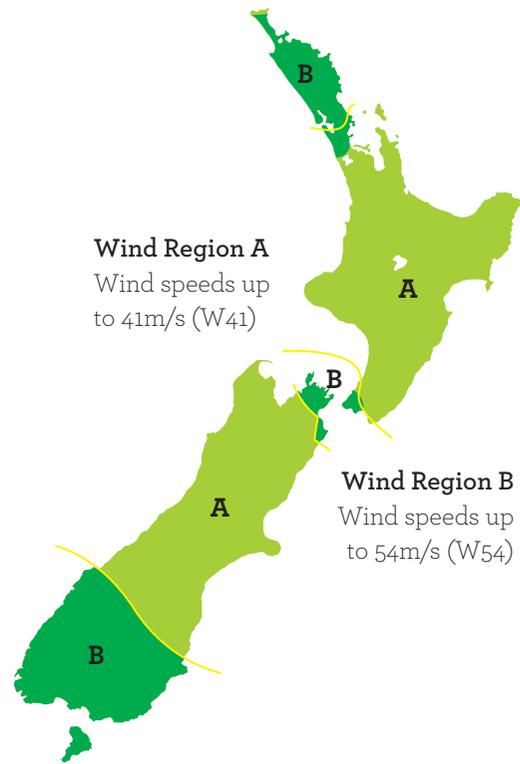
## SPECIFICATIONS

### Centre to centre guide

Panel length	Post hole centres
2400mm	> 2670mm
2700mm	> 2970mm
3000mm	> 3270mm

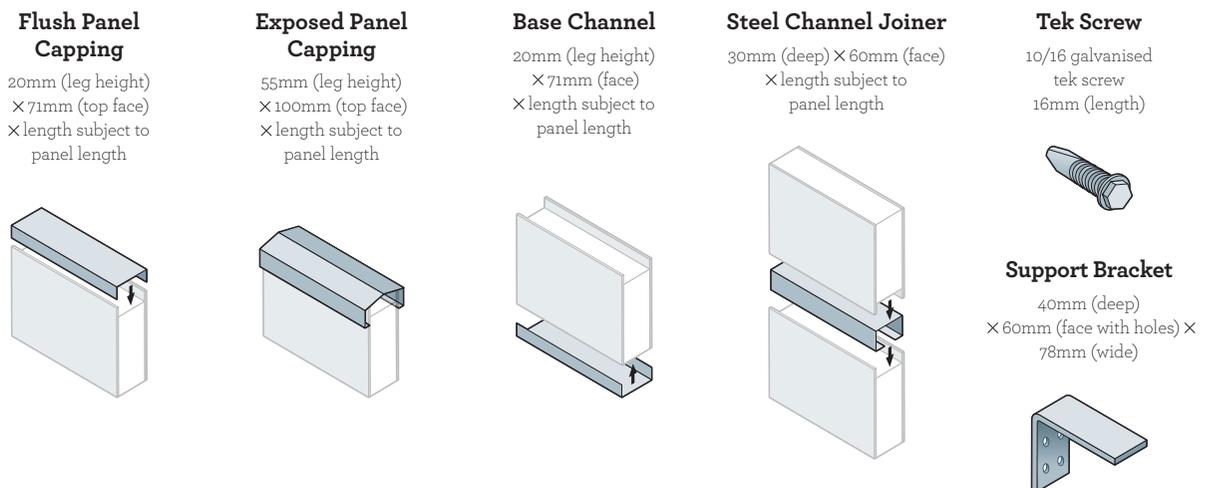
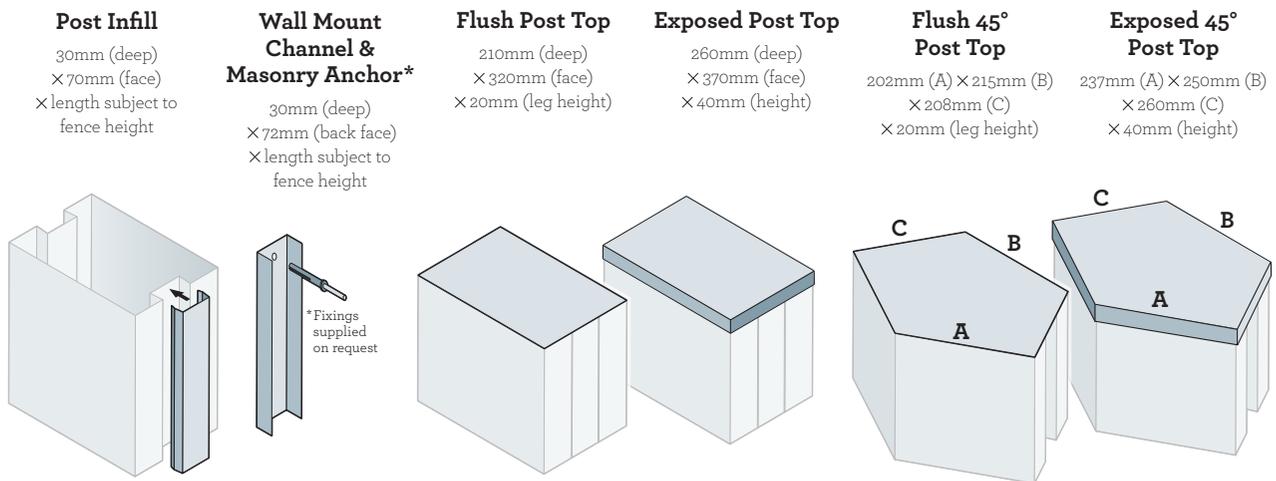
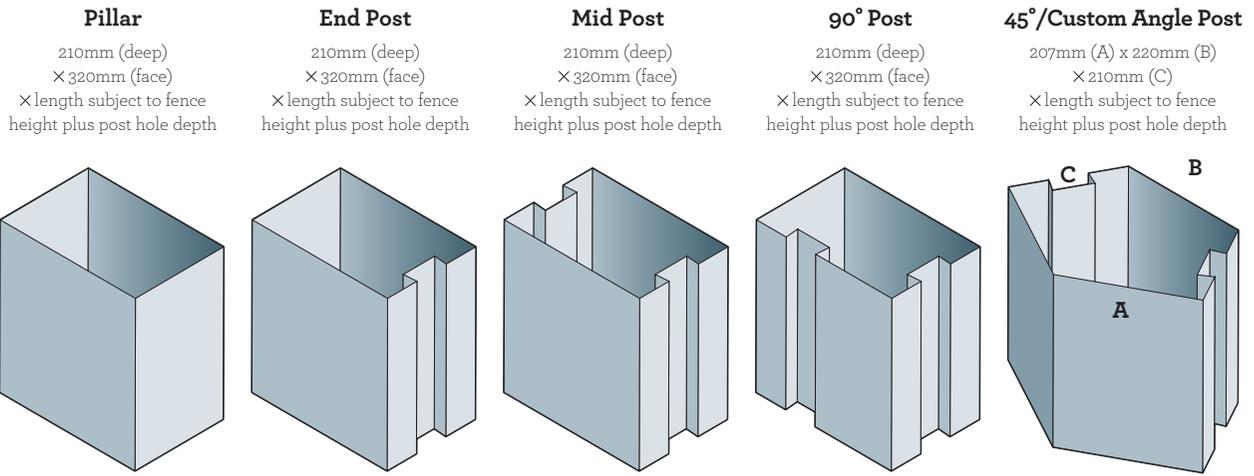
### Post hole depth guide Wind Regions A&B

Hole depth into firm earth or clay	Fence height	Hole depth into sand, soft clay or loose earth
450mm	> 900mm	> 550mm
550mm	> 1200mm	> 650mm
600mm	> 1500mm	> 700mm
650mm	> 1800mm	> 800mm
700mm	> 2100mm	> 900mm
800mm	> 2400mm	> 1000mm
900mm	> 2700mm	> 1100mm
1000mm	> 3000mm	> 1200mm



# ESTATE

## PRE-PRIMED STEEL COMPONENTS

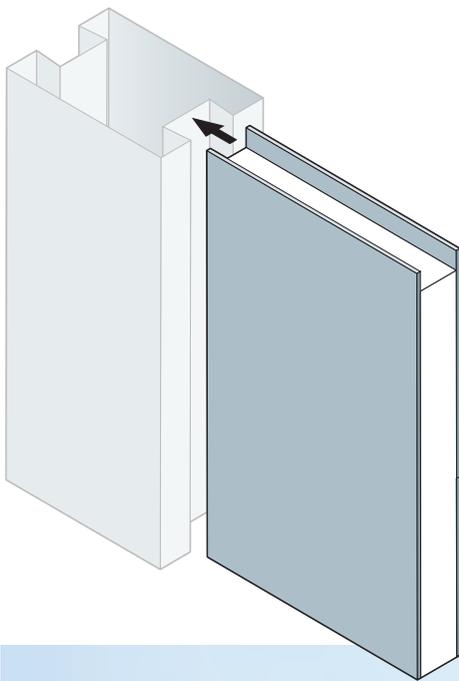


### ESTATE INFILL PANELS

Slat, louvre, tubular and glass infills are also available to enhance your fencing. Please refer to the individual infill pages later in this section.

# CLASSIC PANELS

## SOLID PANELS



**Construction:**

5mm fibre cement outer skins  
40mm expanded polystyrene core

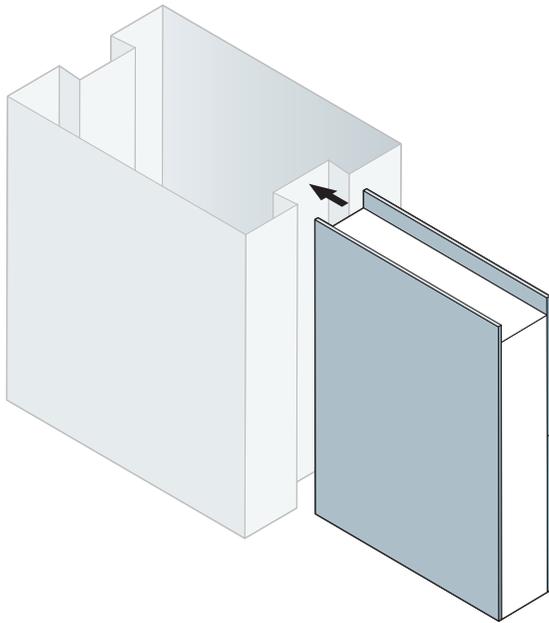
- 2400mm (length) x 600mm (height) x 50mm (width)
- 2400mm (length) x 900mm (height) x 50mm (width)
- 2400mm (length) x 1200mm (height) x 50mm (width)
- 2700mm (length) x 900mm (height) x 50mm (width)
- 2700mm (length) x 1200mm (height) x 50mm (width)
- 3000mm (length) x 900mm (height) x 50mm (width)
- 3000mm (length) x 1200mm (height) x 50mm (width)



# SIGNATURE/ESTATE PANELS

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## SOLID PANELS



**Construction:**

5mm fibre cement outer skins

60mm expanded polystyrene core

2400mm (length) x 600mm (height) x 70mm (width)

2400mm (length) x 900mm (height) x 70mm (width)

2400mm (length) x 1200mm (height) x 70mm (width)

2700mm (length) x 900mm (height) x 70mm (width)

2700mm (length) x 1200mm (height) x 70mm (width)

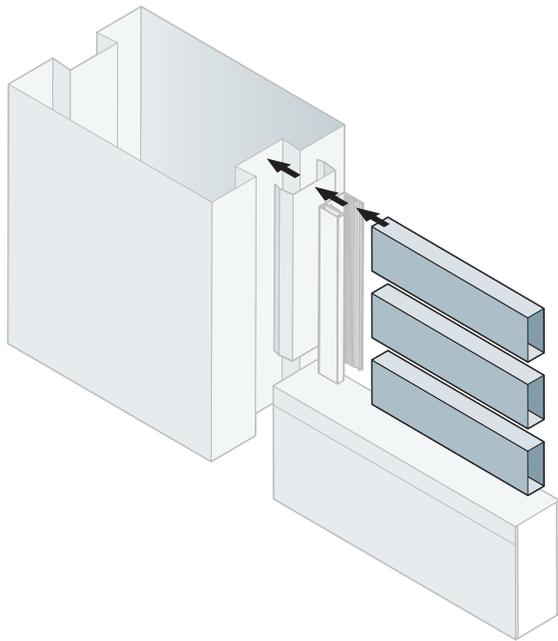
3000mm (length) x 900mm (height) x 70mm (width)

3000mm (length) x 1200mm (height) x 70mm (width)



# CLASSIC/SIGNATURE/ ESTATE INFILL PANELS

## SLAT INFILL PANELS



Slat infill panel height options:

**300mm      900mm      1500mm**  
**600mm      1200mm      1800mm**

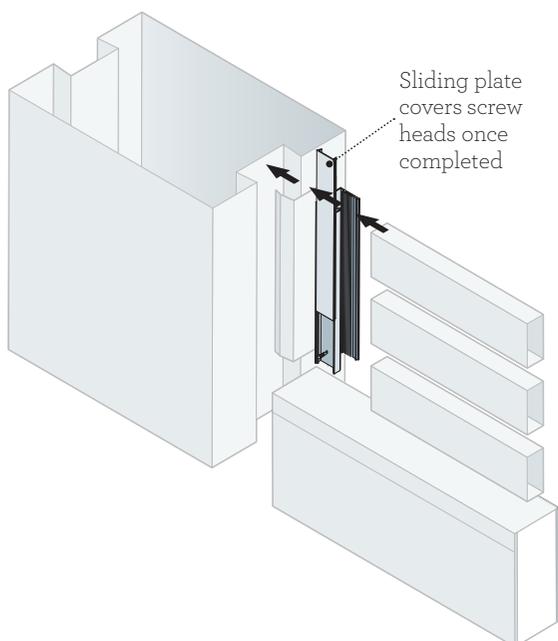
Slat construction:

**Powdercoated aluminium**

Slat sizes:

**2330mm (length) x 60mm (height) x 25mm (width)**  
**2330mm (length) x 85mm (height) x 25mm (width)**  
**2630mm (length) x 60mm (height) x 25mm (width)**  
**2630mm (length) x 85mm (height) x 25mm (width)**  
**2930mm (length) x 60mm (height) x 25mm (width)**  
**2930mm (length) x 85mm (height) x 25mm (width)**

## SLAT INFILL CHANNEL



Construction:

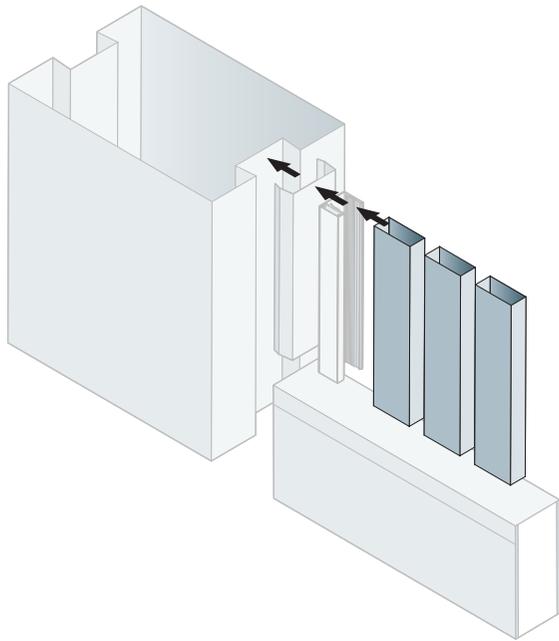
**Aluminium slat channel with cover,**  
**powdercoated to same colour as the slats.**

Slat Channel: 39mm x 32mm (includes screw cover plate)

Slat channel length will be cut to length required - total height of all slats plus gaps between slats, and gaps top and bottom.

# CLASSIC/SIGNATURE/ ESTATE INFILL PANELS

## VERTICAL SLAT INFILL PANELS



Slat infill panel height options:

300mm	900mm	1500mm
600mm	1200mm	1800mm

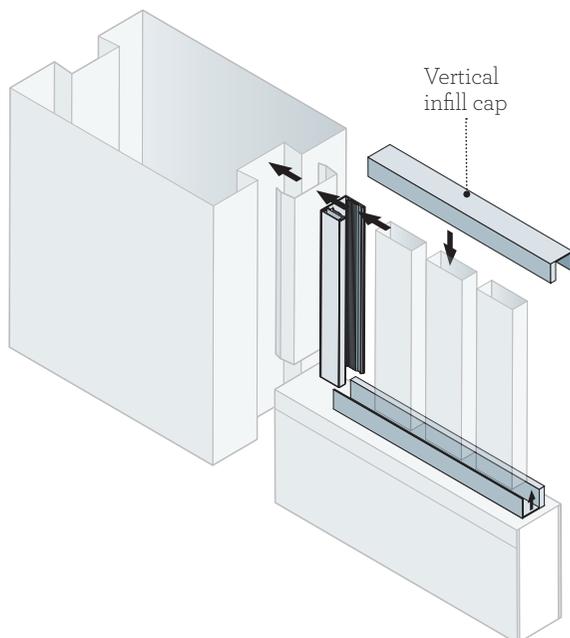
Slat construction:

**Powdercoated aluminium**

Slat sizes:

2330mm (length) x 60mm (height) x 25mm (width)
2330mm (length) x 85mm (height) x 25mm (width)
2630mm (length) x 60mm (height) x 25mm (width)
2630mm (length) x 85mm (height) x 25mm (width)
2930mm (length) x 60mm (height) x 25mm (width)
2930mm (length) x 85mm (height) x 25mm (width)

## VERTICAL SLAT INFILL CHANNEL



Construction:

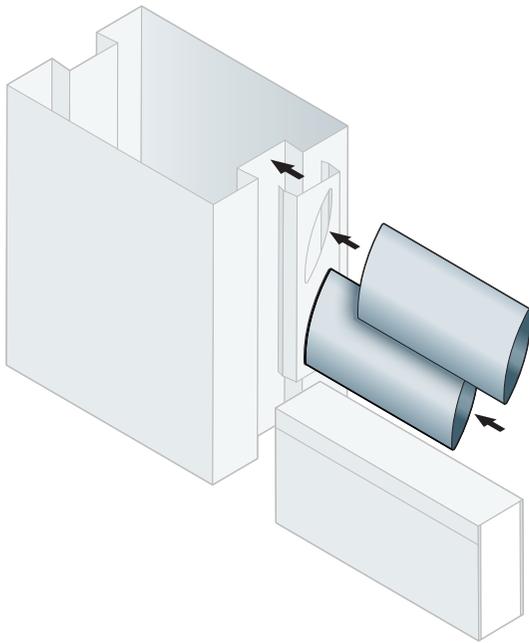
**Aluminium slat channel with cover, powdercoated to same colour as the slats.**

Slat Channel: 39mm x 32mm (includes screw cover plate)

Slat channel length will be cut to length required - total height of all slats plus gaps between slats, and gaps top and bottom.

# SIGNATURE/ESTATE INFILL PANELS

## LOUVRE INFILL PANELS



Louvre infill panel height options:

<b>350mm (3 louvres)</b>	<b>1200mm (10 louvres)</b>
<b>600mm (5 louvres)</b>	<b>1500mm (13 louvres)</b>
<b>900mm (8 louvres)</b>	<b>1800mm (15 louvres)</b>

Construction:

**135mm high aluminium aerofoil louvre infill powder-coated to your colour choice.**

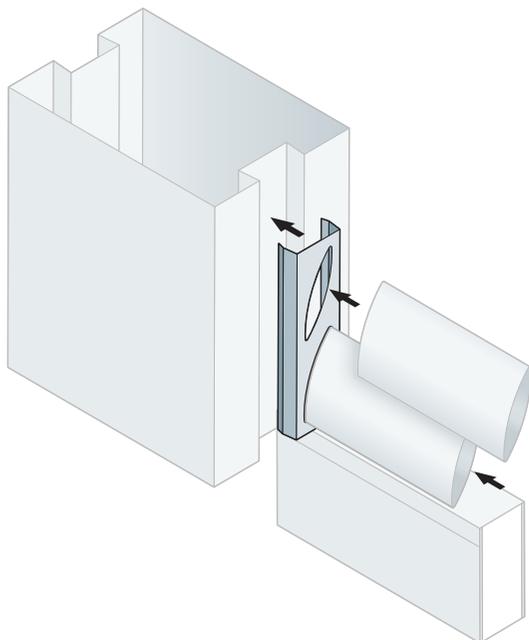
Louvre sizes:

**2400mm (length) x 136mm (height) x 32mm (width)**  
to suit 2400mm panels

**2700mm (length) x 136mm (height) x 32mm (width)**  
to suit 2700mm panels

**3000mm (length) x 136mm (height) x 32mm (width)**  
to suit 3000mm panels

## LOUVRE INFILL FIXINGS



Construction:

**Aluminium Louvre 135mm x 30mm inserted into a pre-punched steel Channel that accepts the louvre infill.**

Louvres may need to be cut 5mm shorter than your solid panel and then inserted onto the fixing bar. The finished assembly can then be inserted between the posts.

# CLASSIC/SIGNATURE/ ESTATE INFILL PANELS

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## TUBULAR INFILL PANELS

### Construction:

Aluminium, powder-coated black. Constructed from 40mm x 40mm rails and 19mm x 19mm pickets. It is important to note that our 'square cross section' tubular panels are superior in strength to some inferior, 'round cross section' panels.

### Single Top Rail

2400mm Max. (length) x 950mm (height) x 40mm (width)

2400mm Max. (length) x 1200mm (height) x 40mm (width)



Custom 600mm panel shown.



### Double Top Rail

2400mm Max. (length) x 1200mm (height) x 40mm (width)

2400mm Max. (length) x 1500mm (height) x 40mm (width)

2400mm Max. (length) x 1800mm (height) x 40mm (width)



## SOLID PANEL FENCING

### Vecta

Reversible panel that can be used for a flat-top or rod-top look

2250mm Max. (length) x 1200mm (height) x 40mm (width)

2250mm Max. (length) x 1500mm (height) x 40mm (width)

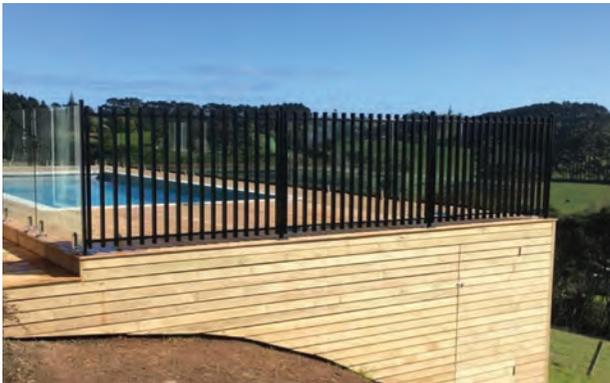


Custom curved-top panel shown - available on request.

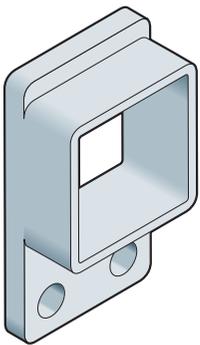


### Axis

2250mm Max. (length) x 1200mm (height) x 40mm (width)



## TUBULAR INFILL FIXINGS



### Construction:

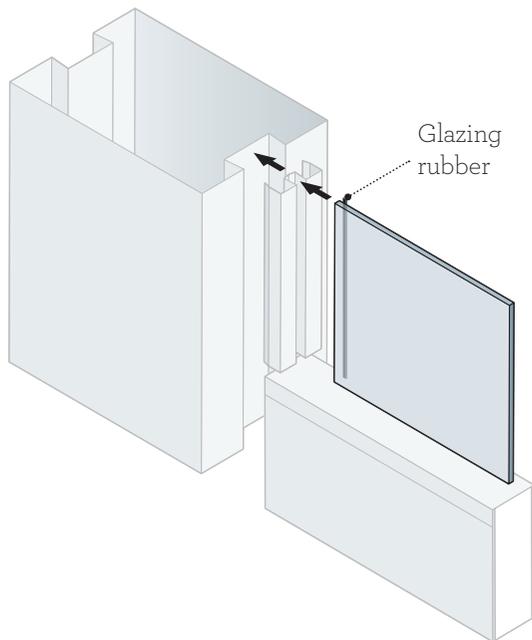
3mm aluminium, powder-coated black

Bracket shape dependant on the tubular panel chosen.

# SIGNATURE/ESTATE INFILL PANELS

## GLASS INFILL PANELS

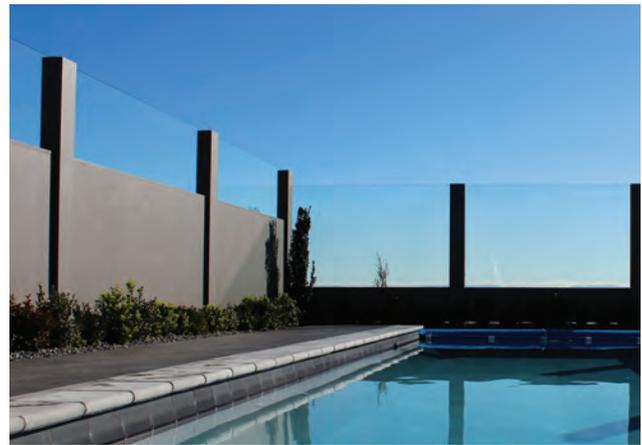
For the 70mm Signature and Estate posts only



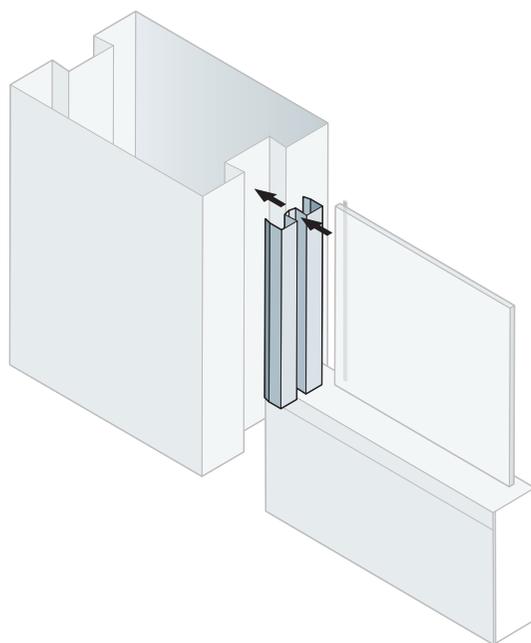
### Construction:

12mm toughened safety glass

**2380mm (length) x 1200mm Max. (height)  
x 12mm (width)**



## GLASS INFILL FIXINGS



Max glass pannel size

**2400 Max (length) x 1200mm. (height)  
x 12mm (width)**



