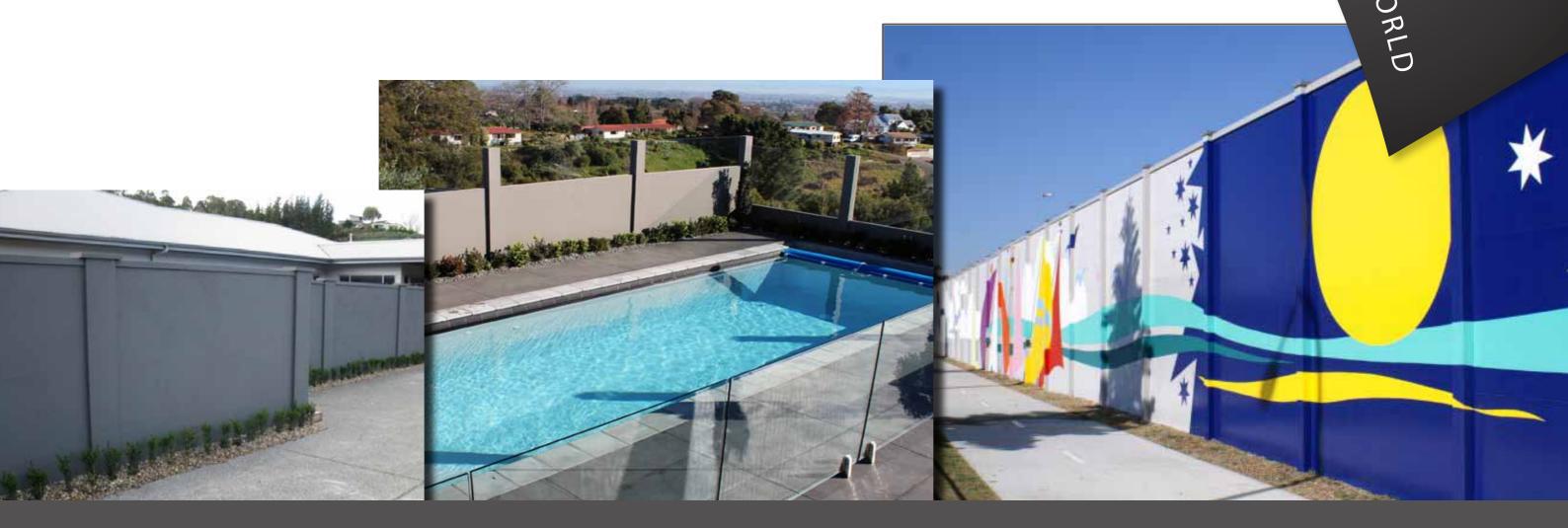


### **About BelAire**

BelAire Designer Fencing – the most advanced modular wall system available in New Zealand today.

From the manufacturing plant in Hastings, BelAire have supplied hundreds of modular wall fences to commercial and residential projects throughout New Zealand. The system is based on an Australian design which has been proven in many varying applications all over Australia, including harsh environments and high wind regions.



Residential Fences

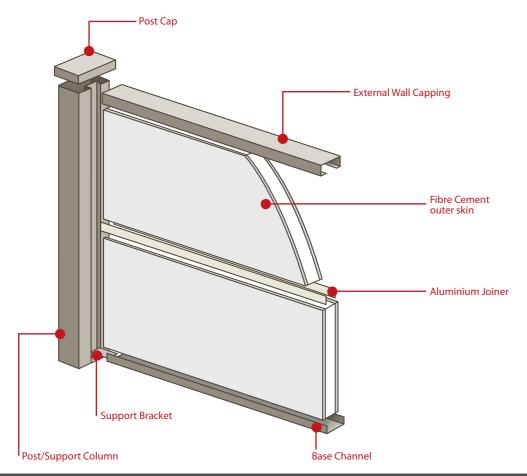
Swimming Pool Surrounds

Commercial Noise Barrier Walls

### Construction

- BelAire Designer Fences are made from materials that are lightweight, yet structurally strong.
- The BelAire system utilizes steel, fibre-cement board and polystyrene in a patented system to achieve a solid boundary wall with unique characteristics:
- Strong & StableConstruction
- Quick installation
- Sound Insulating
- High Impact Resistance

TYPICAL WALL CONSTRUCTION





- strong steel posts in concrete footings
- wall panels interlock with the posts
- will not collapse in an earthquake
- no cement or masonry to crack

With strong steel posts in concrete footings, and light-weight interlocking panels, this wall system will not collapse in an earthquake, and there is no cement or masonry to fracture or crack.

Any expansion and movement can take place within the unique post system meaning the wall will forever carry it's original tidy and straight appearance.

Fast

Strong

Secure

## **Quick Installation**

- **■**modular construction
- light-weight materials
- •minimal site disturbance
- no heavy foundations required



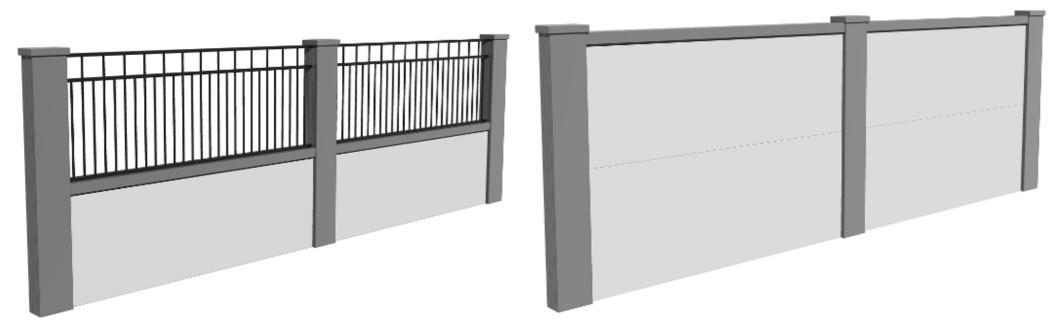
#### Step 4 Attach post and wall cappings using construction adhesive.

### and upper wall

Attach base channel and insert lower

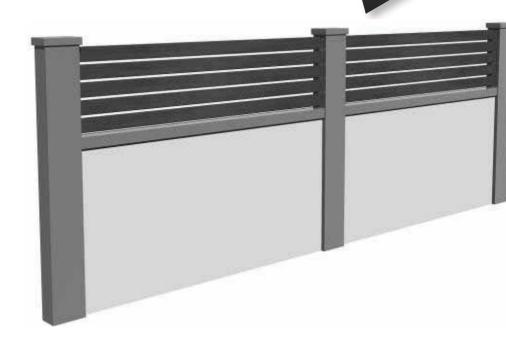
### BelAire Standard Designs:

**Pool Panel Insert** 



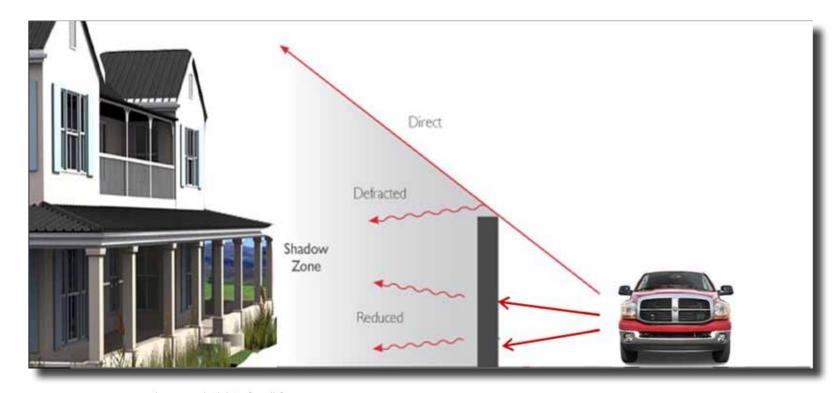
Solid Wall Style

Slats and Louvre Inserts

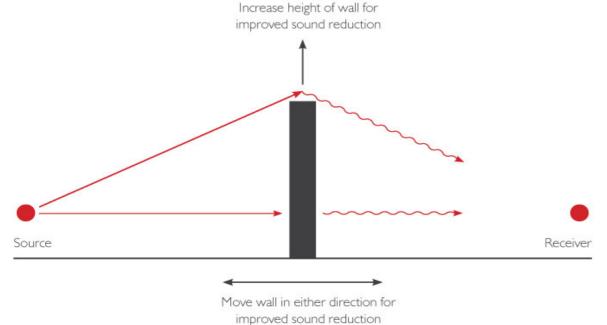


## Sound Insulation

The BelAire wall panel is designed with a polystyrene core which has the added benefit of an effective sound barrier. This has been tested by the Australian National Acoustic Laboratories to block up to 28 decibels of noise.



Noise Report Available on Request



## High Impact Resistence



Stone Impact Test - A steel striker in a pendulum action was used to replicate a 30Nm concentrated blow. The impact is observed and Reported NSW RTA R271 Specification



Load Test - Bricks are progresively and evenly loaded onto a panel and the deflection measured upto failure

Shot Put Test:

Over View:

A 4kg shotput is dropped onto a supported panel and the deflection and impact damaged measured and assesed.

Test:

Height: 3.0m Drop onto a 70mm BelAire Panel supported as per installation method.

Location of test: BelAire Fencing Factory

Wall Type: Signature wall

Deflection Rate: 8mm Maximum deflection Depth Panel Servicibility after impact: Still Servicible

Panel Structual Integrity: Unafected

Panel Repairable: Yes

Conclusion

The panel was both stuctually and visually servicable after impact. No immediate repair was necessary & non-repair of the panel would not be detrimental to the performance of the panel's intended function





Shotput Test with a 4kg Shotput Dropped from 3mtrs high

The materials of the BelAire fence offer high impact resistance. In the case of extreme damage such as vehicle impact, complete panels can be replaced easily.

## **Product Specs**

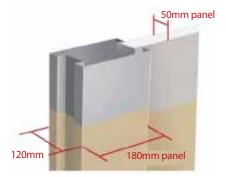
#### BelAire Designer Fencing offer 3 different wall types:

- Wall Types: Classic, Signature & Estate
- Wall Heights: 900mm 3000mm

#### Classic: Available heights from 900mm – 2100mm

Classic walls have an overall panel thickness of 50mm and a 80mm top wall capping. Posts measure 180 (face) x 120mm (depth). Each standard section has an effective coverage of 2.53 or 2.83 meters,

to post centre. The classic wall is the most cost effective of the 3 styles and most commonly used in domestic boundary/screening wall applications. This style of wall will also supply great sound

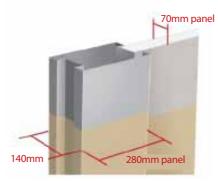


Post centres: 2680mm, 2980mm & 3280mm

Wall Panel: 50mm thickness - Density of composite panel materials: 15.49kg m<sup>2</sup> Posts: 180 (width) x 120 (depth) x 0.95 mm BMT Post centres: 2530mm & 2830mm

#### Signature: Available heights from 900mm – 3000mm

Signature walls have an overall panel thickness of 70mm and a 100mm top wall capping. Posts measure 280mm (face) x 140 mm (depth) and designed around a single brick in width. Each standard section has an effective coverage of 2.63, 2.93 or 3.23 meters, post centre to post centre. The Signature wall is most commonly used were a true masonry wall look is desired or in a commercial security/sound wall application. The wall has superb sound reduction qualities (National Acoustic Laboratory tested)

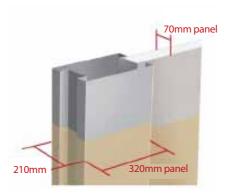


Wall Panel: 70mm thickness - Density of composite panel materials: 15.49kg m2 Posts: 280 (width) x 140 (depth) x 0.95 mm BMT Post centres: 2630mm, 2930mm & 3230mm

#### Estate: Available heights from 900mm – 3000mm

Estate walls have an overall panel thickness of 70mm and a 100mm top wall capping. Posts measure 320 (face) x 210 mm (depth). Each standard section has an effective coverage of 2.68, 2.98 or 3.28 meters, post centre to post centre. The Estate wall is most commonly used were a true 'Grand' masonry wall look is desired. The post face is equivalent to a brick & a half in width. The wall has superb sound reduction qualities (National Acoustic Laboratory tested)

Wall Panel: 70mm thickness - Density of composite panel materials: 15.49kg m2 Posts: 320 (width) x 210 (depth) x 0.95 mm BMT





## **BelAire Solid Panel Wall**





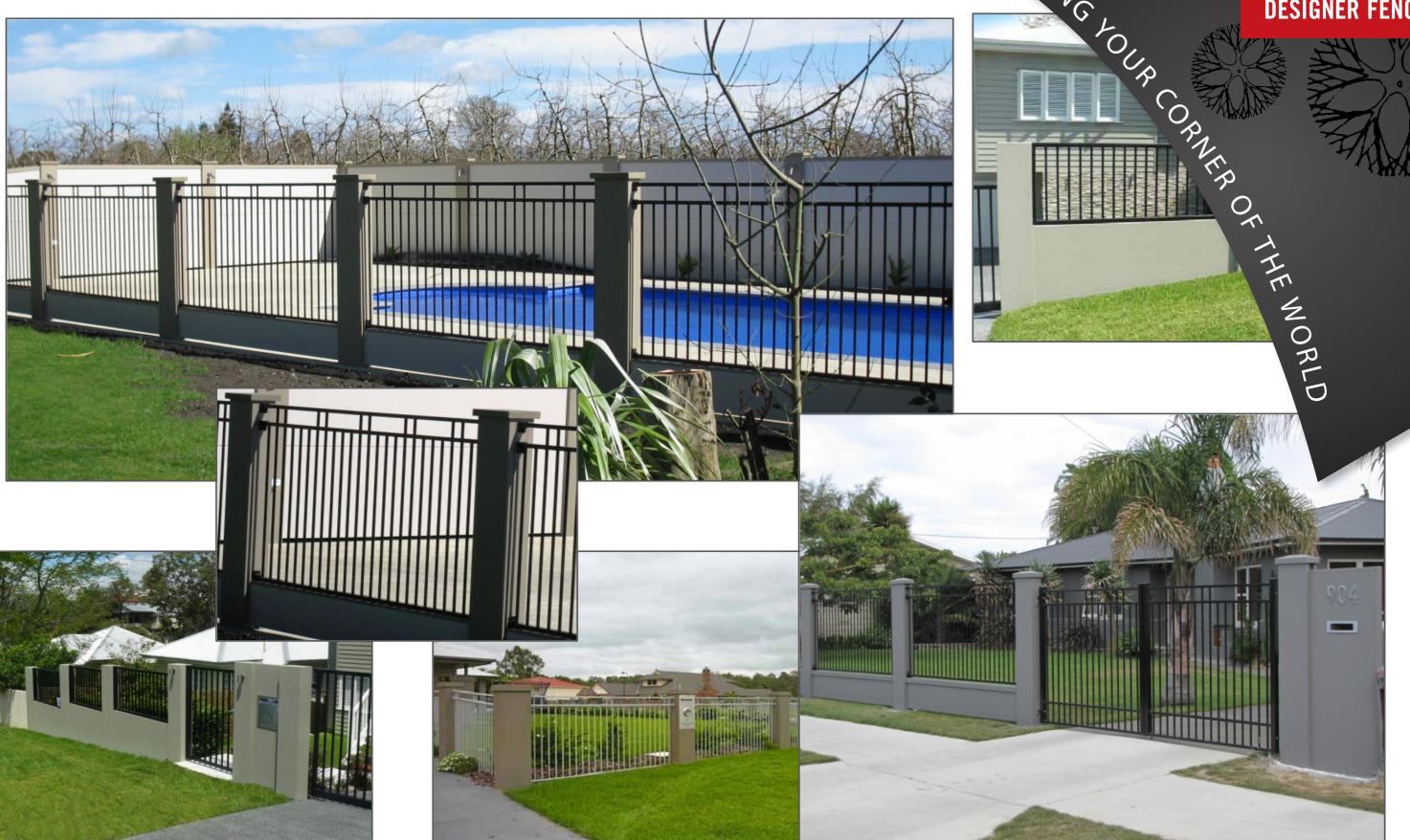




BelAire Solid Panel / Slat Infill



BelAire Solid Panel / Pool Panel Infill



# BelAire Solid Panel / Noise Walls





solid walls and fences residential & commercial

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