

our
options
reflect
your
lifestyle

BALUSTRADES

The expert guide
to balustrade
glass designs

for balustrades that make a statement, reflect on what's possible

| Nothing should get in the way of a great view. |

That's why National Glass offers you a scintillating choice of glass balustrade options when you're building or renovating. Our comprehensive range is rated to international standards for toughness and weather resistance, so you can be sure you're making the right choice.

If you're looking for the perfect balance between safety and style, we'll give you plenty to reflect on.

Beauty and safety in perfect harmony

A view should never be spoiled for safety's sake. And it doesn't have to be when you choose National Glass balustrades.

It's all about letting the view speak for itself, through a stunning and stylish piece of glass. Tough, stable and designed for the bustle and hard knocks of everyday life, our balustrades are built to stand the test of time in strength and in style.

Safety

Whether you're fencing a pool, framing a view or dividing a space in a building, when you're working with glass, safety is key. Our toughened glass balustrades exceed all the NZ safety requirements so you can be sure the people that matter to you are completely safe.

Reflecting your style

We have lots of design options to help you blend your balustrade into the background or alternatively, make a real feature of it.

From crystal-clear cantilevered panels, to wood or metal framing, custom handrails, tints, laminated effects and more, you'll find a balustrade that lets your individuality shine through.

The advantages

- Clear glass won't obscure the view yet is incredibly safe
- Built to comply with the New Zealand Building Code
- Combined with glass surface effects, like frosting, translucence and decorative laminating, a unique look can be assured for any environment.
- The stylish aesthetics of a glass balustrade add value wherever they're used

FRAMELESS BALUSTRADE



STAND-OFF-BALUSTRADE



GLASS FLOOR



style and range that reflects your taste



A range of balustrade or pool fence options to complement your architectural concepts

Indoor, outdoor, upstairs, downstairs... wherever your balustrades are going they're bound to make a statement. And with so many options and features, you can make them your very own.

Design types

Whether you're providing safety for balconies, staircases or pools, we can help you find the right style for your property. Even if you're looking for just a clear glass balustrade, the look of it can change dramatically with the way you fit it – cantilevered, bolted or frameless, by setting the glass into a continuous clamp channel to maximise views and minimise intrusion.

Another idea is to use aluminium, stainless steel or timber to frame your glass. The panels can be fully framed (four edge support) or two or three edge support, which can also include a handrail.

Handrails are an important consideration, but may not always be required. There are two types of handrail – load supporting or non-load supporting. Supporting handrails are usually mechanically fixed independent of the glass (as is the case with most framed

glass designs), but can also be connected to the glass for aesthetic purposes. With non-supporting handrails the glass takes the load. Even if a handrail is fixed to the glass it does not provide any structural integrity – it's just there to look great.

Got your own design idea? Just ask us if it's possible.

A little extra

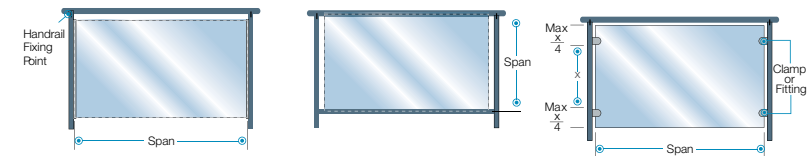
If you're wanting a little more privacy or want to add a little of your own style, we have a range of glass surface effects available. Things like frosting, translucence and decorative laminating will give you a unique look in any environment.

Open up

Our range of balustrade systems are often used to form 1200mm high safety fences for pools, so we've designed a way to keep that sleek glass style going on the gate as well.

TWO EDGE SUPPORT INFILL

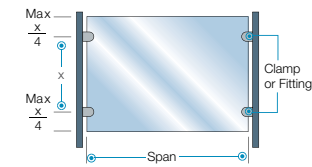
LOAD SUPPORTING HANDRAIL



The handrail is constructed to support the design loads and may or may not be connected to the glass.

TWO EDGE SUPPORT

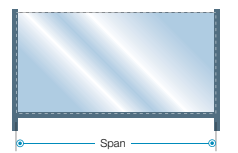
NO HANDRAIL OR NON LOAD SUPPORTING HANDRAIL



Panels are supported by vertical posts at each side or in a channel.*

*Requires specific design.

THREE EDGE SUPPORT

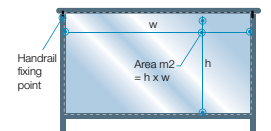


Base and two vertical ends are supported in channels or by fixings.*

*Requires specific design.

FOUR EDGE SUPPORT

LOAD SUPPORTING HANDRAIL



In this case the handrail supports the design loads and the glass.





our inspiration comes from reflection

High performance solutions for all buildings

Glass balustrades can add that 'wow' effect in any space, and make a particular statement in buildings. Their sleek lines and open feel can add a real air to an open space, and can also provide a sense of separation and privacy without the need for solid and intrusive walls.

Raising the bar

When it comes to using glass, safety is a big priority. We've made safety the main feature of all our glass balustrades – and installation is a big part of that.

Our experienced team can help you choose or design a balustrade that enhances your space, and most importantly complies with the New Zealand Building Code. And when it comes to installation, our tradespeople take care of that too so you can be sure that every safety box is ticked.

Some things to think about

Balustrades need to incorporate several design and performance requirements to comply with the New Zealand Building Code. It is important that all requirements are met to ensure that you meet the code of compliance. Consideration needs to be given to the following standards:

- AS/NZS 1170*
- B1/AS1 Structure (NZS 4203) refers to (NZS 4223:Part 3: 1999)
- B2/AS1 Durability
- F2/AS1 Hazardous Building Materials (NZS 4223:Part 3: 1999)
- F4/AS1 Safety from falling
- D1/AS1 Access Routes
- Fencing of Swimming Pools Act 1987

When we meet with you to work out a design, we'll cover all these standards for your space.

Keep your view clean & clear

Glass balustrades are designed to make the most of your view, so it makes sense to keep them looking like new. Diamond Coat produces an invisibly thin, durable "non-stick" surface that protects the glass from corrosion and prevents dirt from sticking to the glass, dramatically reducing the need to clean. It works like a non-stick frying pan, by actually repelling dirt and grease. It cuts cleaning effort and time by up to 90%... and when cleaning is needed, all it takes is a quick wipe. So choose Diamond Coat when you install a National Glass balustrade.

Diamond  Coat

STAND-OFF BALUSTRADE



FACE FIX BALUSTRADE



EURO-BRACE BALUSTRADE



* Glass balustrade specifications are determined by NZS 4203 or AS/NZS 1170 (Note: NZS 4203 does not meet the requirements of AS/NZS 1170. Care should be exercised as often contract conditions call for compliance with NZS 1170). Alternatively specific design (B1/VM1) requires compliance with NZS 1170, NZS 4223: Part 1: 2008 or AS 1288: 2006 (as design stresses are aligned to NZS 1170) and NZS Part 3: 1999.

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 **NATIONAL GLASS**
Diamond Quality Glass & Service