THE MODERN, CLEAN LINES OF GLASS BALUSTRADES FOR EVERY PART OF THE HOME

Clear, toughened or laminated glass for internal and external balustrades and stairwells

METRO
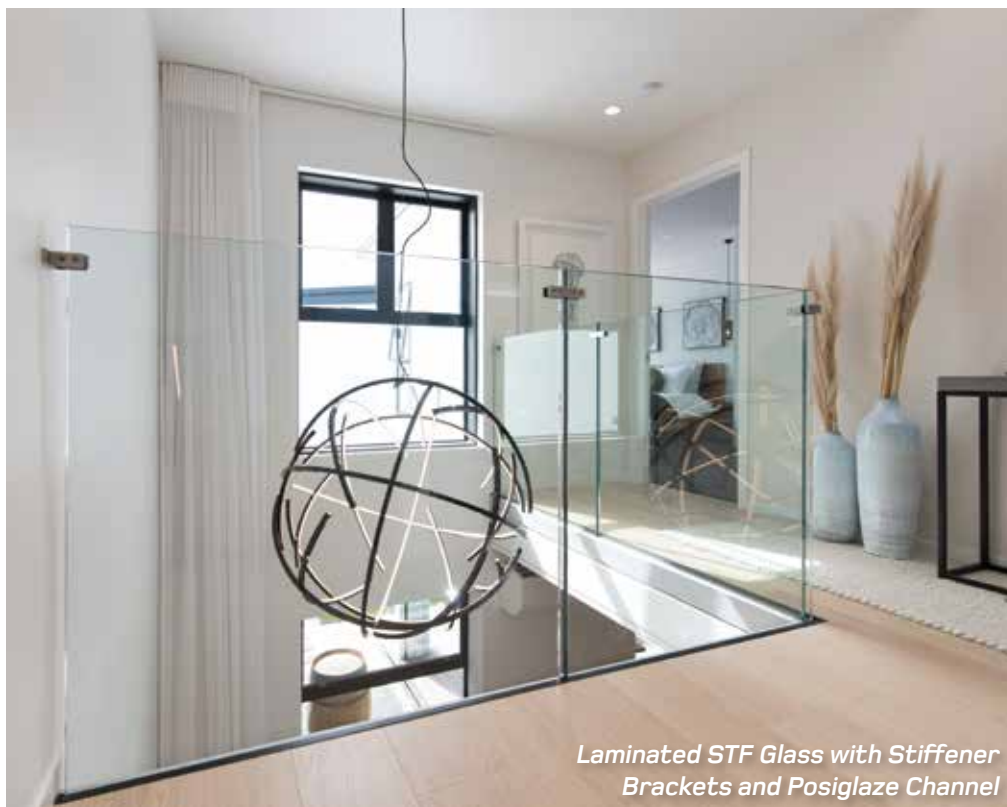PERFORMANCE GLASS

HARDWARE AND GLASS OPTIONS

This document is intended as an indicative guide only to help in selection of balustrade options. It should be noted that your glass balustrade design is multi-dimensional, between the substrate the fixings are attached to, the glass types that are possible with this fixing, and the need (or not) for an interlinking rail or handrail.

12mm toughened safety glass fall less than 1 metre

12mm toughened safety glass windbreak

Laminated STF Glass with Stiffener Brackets and Posiglaze Channel

30mm toughened laminated safety glass

Poziglaze Grey tinted glass with top cap for deck – AP65 Post tinted glass courtyard

PF150 Plate with laminated STF Glass

Mini Post SP160 with laminated STF Glass

Poziglaze Etchlite glass with top cap and glass canopy

Balustrade Selection Guide

Most glass balustrades protect a fall of greater than 1 metre so require a PS1. Available online Metro Performance Glass standard PS1's provide an easy New Zealand Building Code path to compliance.

Availability highlighted in the table below: **https://www.metroglass.co.nz/design-centre/producer-statements-ps1/**
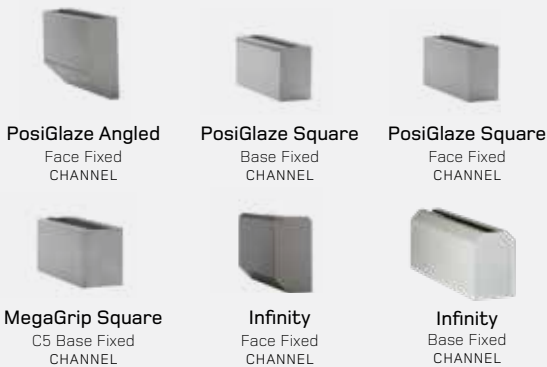
Specific Design PS1's are also available, however they require a Metro Performance Glass Engineering review of the drawings and will thus take longer and may well incur a cost.

Seamless fully frameless standard toughened glass balustrades are no longer an option to meet the NZ Building Code. The current compliant option is the use of Laminated STF Glass (Sentry®) which has a rigid laminate in the middle of the glass, that stays intact in the case of dual pane fracture. However most standard installations will now use a visible interlinking rail/top cap with toughened safety glass.

Standard Balustrade PS1's Availability highlighted in the table below to the maximum Wind Load Zone									
BALUSTRADE SYSTEMS OVERVIEW				**SUBSTRATE**				**DESIGN PARAMETERS**	
		Name	Part #	Timber	Masonry Blocks	Steel	Concrete	Interlinking Rail/ Topcap System	Occupancy Types
Point Fixed Anchors	Side Fixed Disc Plate	50mm Double Disc	MB50D	EH	EH	EH	EH	Laminated STF or IR/TC Required	A, A(other), B, E, C3
		75mm Single Disc	MB75D	SD	VH	VH	VH	Laminated STF or IR/TC Required	A, A(other), B, E, C3
		100mm Single Disc	MB100D	SD	VH	VH	VH	Laminated STF or IR/TC Required	A, A(other), B, E, C3
	Side Fixed Square Plate	50mm Double Square	MB50S	EH	EH	EH	EH	Laminated STF or IR/TC Required	A, A(other), B, E, C3
		75mm Single Square	MB75S	SD	VH	VH	VH	Laminated STF or IR/TC Required	A, A(other), B, E, C3
	Side Fixed Plate	150mm Plate	PF150	VH	SD	VH	VH	Laminated STF or IR/TC Required	A, A(other), B, E, C3
Channels	Base Fixed Channels	Posiglaze	PG120B	VH	SD	EH	EH	Laminated STF or IR/TC Required	A, A(other),C3, B*,E*, C1*,C2*,D*
		Infinity	BA122B	SD	SD	EH	EH	Laminated STF or IR/TC Required	A, A(other), B, E, C3
		MegaGrip	MB130B	N/A	N/A	SD	SD	Laminated STF	A, A(other), B, E, C1,C2, C3, D, C5
	Side Fixed Channels	PosiGlaze	PG120S	EH	SD	EH	EH	Laminated STF or IR/TC Required	A,A(other),C3, B,E, C1*,C2*,D*
		PosiGlaze (Angle Cover)	PG180S	EH	SD	EH	EH	Laminated STF or IR/TC Required	A, A(other),C3, B,E, C1*,C2*,D*
		Infinity	BA124S	SD	SD	EH	EH	Laminated STF or IR/TC Required	A, A(other), B, E, C3
Posts	Base Fix	Mini Post	SP160B	EH	SD	EH	EH	Laminated STF or IR/TC Required	A, A(other), B, E, C3
		Strut Post	PL200	H	SD	H	H	IR/TC Required	A, A(other), C3
	Side Fix	Strut Post	PL400	H	SD	H	H	IR/TC Required	A, A(other), C3
	Semi Frameless Base Fixed Post	Post 65mm Ali	AP65	VH	SD	VH	VH	Laminated or IR/TC Required	A, A(other), C3
		Post 78mm Ali	AP78	VH	SD	VH	VH	IR/TC Required	A, A(other),C3, B, E,C1,C2, D
	Semi Frameless Side Fixed Post	Post 65mm Ali	AP65	SD	SD	VH	VH	Laminated or IR/TC Required	A, A(other), C3
		Post 78mm Ali	AP78	SD	SD	VH	VH	IR/TC Required	A, A(other),C3, B, E,C1,C2, D

KEY   **N/A** Not available   **SD** Specific design may be possible.   * Not applicable to timber substrate
Wind Load Zones L = Low M = Medium, H = High, VH = Very High, EH = Extra High

Balustrade Systems

Channel

PosiGlaze Angled
Face Fixed
CHANNEL

PosiGlaze Square
Base Fixed
CHANNEL

PosiGlaze Square
Face Fixed
CHANNEL

MegaGrip Square
C5 Base Fixed
CHANNEL

Infinity
Face Fixed
CHANNEL

Infinity
Base Fixed
CHANNEL

Systems Links

Design Centre

PS1's

Point Fixings

50mm Disc
Face Fixed
ROUND

50mm Disc
Face Fixed
SQUARE

75mm Disc
Face Fixed
ROUND
SD

75mm Disc
Face Fixed
SQUARE
SD

100mm Disc
Face Fixed
ROUND
SD

150mm Plate
Face Fixed
OVAL

Post

Strut Post 400mm Aluminium
Face Fixed
MINI POST

Mini Post 160mm Stainless
Base Fixed
MINI POST

Strut Post 200mm Aluminium
Base Fixed
MINI POST

65mm Aluminium
Base Fixed
or Face Fixed
FULL POST

78mm Aluminium
Base Fixed
or Face Fixed
FULL POST

Standard Finishes are Aluminum or Stainless Steel.
Powder Coat options are also available by request

12mm toughened Etchlite with interlinking rail

12mm toughened Grey Tint with interlinking rail

12mm toughened safety glass with Interlinking rail

EzyClean Technology

SAVE TIME AND REPEL DIRT, SOAP AND GRIME WITH METRO EZYCLEAN TECHNOLOGY

Untreated

Metro EzyClean

Applied in our state-of-the-art manufacturing facilities, Metro's unique EzyClean Technology provides a protective coating that creates a long lasting, invisible shield on your homes glass surface.

Water will simply bead off the glass surface, resulting in cleaning time being significantly reduced. And it also makes cleaning simple, only requiring the use of water and a mild detergent or microfibre cloth.

Compared to ordinary glass, Metro EzyClean Technology

- resists staining from hard water deposits
- does not support the growth of bacteria
- eliminates the need for harsh and abrasive cleaning products
- protects against the build-up of soap scum, body oils, dirt, and grime

So whilst glass protected with EzyClean Technology saves time and effort, it also stays cleaner longer, creating a more hygienic environment.

SIMPLE MAINTENANCE

A soft cloth is all you really need to clean your protected glass, but for best results, squeegee dry after each use. The only cleaning solution Metro recommends using is warm water and mild detergent.

WARRANTY

Provided the glass is maintained according to published after-care instructions and without the use of abrasive cleaning methods or highly alkaline products, Metro Performance Glass warrants that Metro EzyClean Technology will work for up to ten (10) years from the date of manufacture.
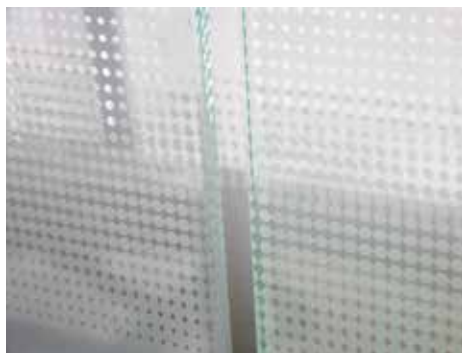
METRO 10 YEAR WARRANTY

When you see this symbol you know EzyClean Technology has been applied to the glass.

DECORATIVE GLASS BALUSTRADE

Add controlled aesthetics, privacy and safety with a ceramic digital print.

0800 545 800
www.metroglass.co.nz

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PERFORMANCE GLASS