

PosiGlaze

Glass Balustrade System

The Solution for Cantilevered Structural Glass Balustrades

Innovative design

The PosiGlaze Glass Balustrade System was developed for cantilevered structural balustrades to cope with the transition from monolithic Toughened Safety Glass (TSG) to Toughened Laminated Safety Glass (TLSG).

The unique design uses a special high strength hollow core aluminium extrusion and special glass clamp kits that clamp the glass and locate into the section. This means the system can be used on 12, 15, & 19mm TSG and 13.5, 17.5 and 21.5 LTSG without holes in the glass. Holes can make the systems more complex and often the holes are the point of failure.

The other key to PosiGlaze is its clever locating and adjusting technique which allows the installers to adjust the glass panels once in place, with a turn of a spanner, saving on installation time.



System types

The PosiGlaze Glass Balustrade System can be base fixed or side fixed for top or side (face) mounted balustrade applications.

The 120mm high x 72mm wide extrusion comes in 3 metre lengths all predrilled ready for fixing and once the section is fitted the glass is easily dropped in and located. The systems also makes re-glazing easy, or the glass type or thickness can be easily changed at a later date.

A top seal strip section and gasket are installed after the glass has been adjusted to give a clean top edge look and matching end caps complete the system.

For the side fixed systems an additional clip on side cladding and tapered base cladding section is used for aesthetics and to cover the fixing holes.

PosiGlaze PG120B Base Fix System
120mm high x 72mm wide

PosiGlaze PG120S Side Fix System
120mm high x 74mm wide

PosiGlaze PG180S Side Fix System
180mm high x 74mm wide

Finish

The sections and covers are fully anodized for durability and come standard in a unique brushed anodized finish which give a "Stainless Steel Effect".

Other aluminium finishes are available on request.

Design & testing

The PosiGlaze Glass Balustrade System has been designed and tested to New Zealand and British Standards, which use similar occupancy types and loading requirements.

The UK testing to BS 6180:2011, involved base and side fixed systems to concrete and steel and a range of glass types and thicknesses from 15 to 21mm including TLSG with EVA and SG interlayer.

The NZ testing is to AS/NZS 1170 loadings in accordance with B1/VM1 Amend 8, for Occupancy A,B,E,C3 and the higher C1,C2 and D loadings.

Therefore the systems can be used for all residential applications and commercial applications, except for C5 (over-crowding).

Installation

The Posiglaze Glass Balustrade System is glazed with Metro GlassTech, TempaFloat, TempaSoak, TempaScreen or TempaPrint Toughened Safety Glass (TSG) or SafeLite Toughened Laminated Safety Glass (TLSG), using either, PVB, CIP, EVA or SG interlayer. Note that the breakage characteristic can alter with different interlayer's.

(Refer Metro GlassTech SafeLite brochure).

Compliance

The PosiGlaze Glass Balustrade System can be used for compliance with NZ Building Code Clause F4 – Safety from falling, with barrier heights to suit the design application, normally 1000 or 1100mm.

The maximum glass height is a function of the glass type, thickness, occupancy loading, and wind loading and a design table or specific design is available from Metro GlassTech.

Test data and independent engineered and certified Producer Statements (PS1) are available from Metro GlassTech for compliance with the NZ Building Code.

After installation by Metro GlassTech a code compliant PS3 is provided.

The PosiGlaze Glass Balustrade System can be used with or without interlinking handrail or top rails and comply with the recommendation of the DBH Guidance on Barrier Design section 4.1.4.3.

TempaSoak - Heat Soaked TSG is recommended for barriers with interlinking handrails or top rails

SafeLite TLSG is recommended for barrier without interlinking handrails or top rails.

