




URBAN  
SQUARE



# GLASS BALUSTRADE SYSTEMS

The use of glass in balustrades is a “must-have” bringing unobscured sightlines and amazing panoramic vistas coupled with minimalist design. Our balustrade systems are designed for both commercial and domestic applications with either seamless glass to glass panelling or with vertical posts and handrails for a more engineered aesthetic. The system and glass selection will vary according to whether it’s for commercial or domestic application in order to meet the latest UK Building Regulations.

We are dedicated to giving you the very best product and service with a focus on quality and affordability.

Urban Square offer a wealth of knowledge and experience within the architectural glass industry. Our friendly team is made up of project managers and skilled operatives, many who have worked in the glass industry for over 25 years.

We serve customers from across the UK, building long term relationships as their glazing systems partner for current and future projects.

We work with architects, designers, main contractors, interior fit out companies and direct with end users in Commercial, Industrial and the Domestic sector. We offer the widest range of glazing systems on the market and are not tied to any one manufacturer enabling us to ensure each project is matched with the optimum fitting system.

Our ethos is simple, to provide the best solution at the most affordable price.

We hope you enjoy our finished product as much as we enjoy providing them to you. If you have any questions or comments, please don't hesitate to contact us.

Individual glass panels inserted into an aluminium base channel with minimal gaps in between allow you to enjoy an unrestricted panoramic view.

## CHANNEL SYSTEMS

The glass is held firmly within the base channel using adjustable clamps which lock the glass inside the channel whilst allowing for all panels to align with micro vertical adjustment so all panels are in line. Individual or multiple panels can easily be removed to allow for temporary access or to replace a panel if damaged. With a channel system you can create long runs of vertical glass panels to give an almost invisible,

unrestricted view, especially when using low iron glass which has no colour to the flat surface and very little colour to the outer edge. Channel systems also work well in open plan home designs or where a staircase is designed to be a feature within the space. The option of a stainless steel or wooden handrail can be included during or post installation.



## GET IN-TOUCH TODAY FOR A QUOTE

We are happy to quote for any glass balustrade system from the very simple to the very complex. Please contact us for a no obligation quote and survey if required and allow us to assist you in the implementation of a glass balustrade system.

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The use of vertical posts in balustrade, staircase and balcony design is more traditional and far more widespread than other systems, especially when glass is not included.

## POST SYSTEMS

However with the inclusion of glass you can create a stunning, contemporary feature with the emphasis on the structure itself as well as the invisibility of the glass. The option of vertical steel baluster posts with toughened or laminated glass panels brings a contemporary look with the option of a matching handrail in steel or wood. This is a practical system for staircases and for commercial applications which do not warrant a channel system, whereby the glass thickness can be minimised and as such the cost reduced. You still benefit from having glass panels in between the posts which are fixed at

1m to 1.2m centres, affording optimum light and visibility with matching economy. Another option for balconies and balustrades is that of tensioned cable, with eye bolts secured to end posts and drilled holes to intermediates with 4 or 6mm diameter stainless steel cables tensioned between. Horizontal cables give an architectural look and feel fitting in well with coastal and riverside projects. For Juliet balconies we offer purpose designed systems with posts or rails to the top and bottom or to each side of the glass panel. The glass is either housed within a groove or secured with clamps.



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For a simple and striking solution we can use circular stainless steel button fixings which clamp the glass panels to the wall or staircase stringer giving a minimalist design with or without a handrail.

## BUTTON FIXING

For balustrades and staircases the glass panels are clamped along the base with twin fixing points and small gaps in between each panel. The thickness of the glass can range from 12mm to 21.5mm depending on the application and size of panel. This solution is ideal for smaller balustrades, Minstrel galleries and for curved and winder staircases where a channel system cannot be used. The stainless steel buttons add an architectural look to the design showing off the fixings as much

as the glass itself. The use of low iron glass with no colour to the flat surface and very little colour to the outer edge adds to the invisibility of the barrier. For Juliet balconies a point fix system work very well with the glass being clamped along the lateral edges with the glass oversailing the opening giving an unrestricted and open appearance from the inside whilst conforming to building regulations.



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With a wide range of systems on offer the requirement for glass needs to change to meet UK Building Regulations as well as personal choice by way of look and by way of economy.

## FOR BALUSTRADES, FOR ALUSTRADES, STAIRCASES AND BALCONIES

**Standard toughened glass** gives a slight tint to the glass surface with a darker green to the edge. This is available in 12mm, 15mm and 19mm thickness. Toughened glass is up to 5 times stronger than standard annealed glass making it much harder to break. If it does break the glass shatters in very small pieces posing a minimal risk.

**Low Iron toughened glass** such as Pilkington Optiwhite™ gives a truly clear appearance with a clear surface and slight green tint to the edge. This is an upgrade option available in 12mm, 15mm and 19mm thickness. This is widely used in internal stair cases and frameless balustrades where the desire is to not see the glass at all.

**Toughened laminated safety glass** brings additional safety. This is made up of thinner sheets of standard or low iron toughened glass which are laminated together allowing it to remain intact when broken as the plastic interlayer prevents the panel from falling apart in the same way as a car windscreen. With the advantage of being made up of toughened glass panels it is ideal for applications where the mess caused by broken glass poses an additional risk. This is more suitable for high level applications where the integrity of the panel is required or for swimming pools and food courts where small pieces of broken glass are a serious hazard in themselves. Laminated options are available in 13.5mm, 17.5mm, 21.5mm and 25.5mm thickness.



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