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PRODUCT MANUAL



fbloc® GLASS

Our architectural monolithic glass can be produced in a range of thicknesses from 50mm - 130mm as standard. Other thicknesses available on request.

fbloc® captures the unique optical and tactile qualities of glass with an outstanding range of thick monolithic panels, offering exciting architectural and structural possibilities.

fbloc® is manufactured as a clear low iron optical glass (slight green tint) but can also be produced with clear float glass (strong green tint) and blue or grey body tints. The thickness of the glass dictates the depth of the colour and transparency of the panel.

fbloc® is only available as an annealed glass but the monolithic nature of the glass means that it is extremely strong with minimal chance of breakage from everyday use. As with all annealed glass, however, the edges are more vulnerable to chipping if impacted with a hard object.

As with all kiln formed glass, one face remains smooth whilst the other face is textured. The standard texture is a stippled effect although the glass can be manufactured to bespoke textures if requested. Non-slip textures can also be added to the surface if required.

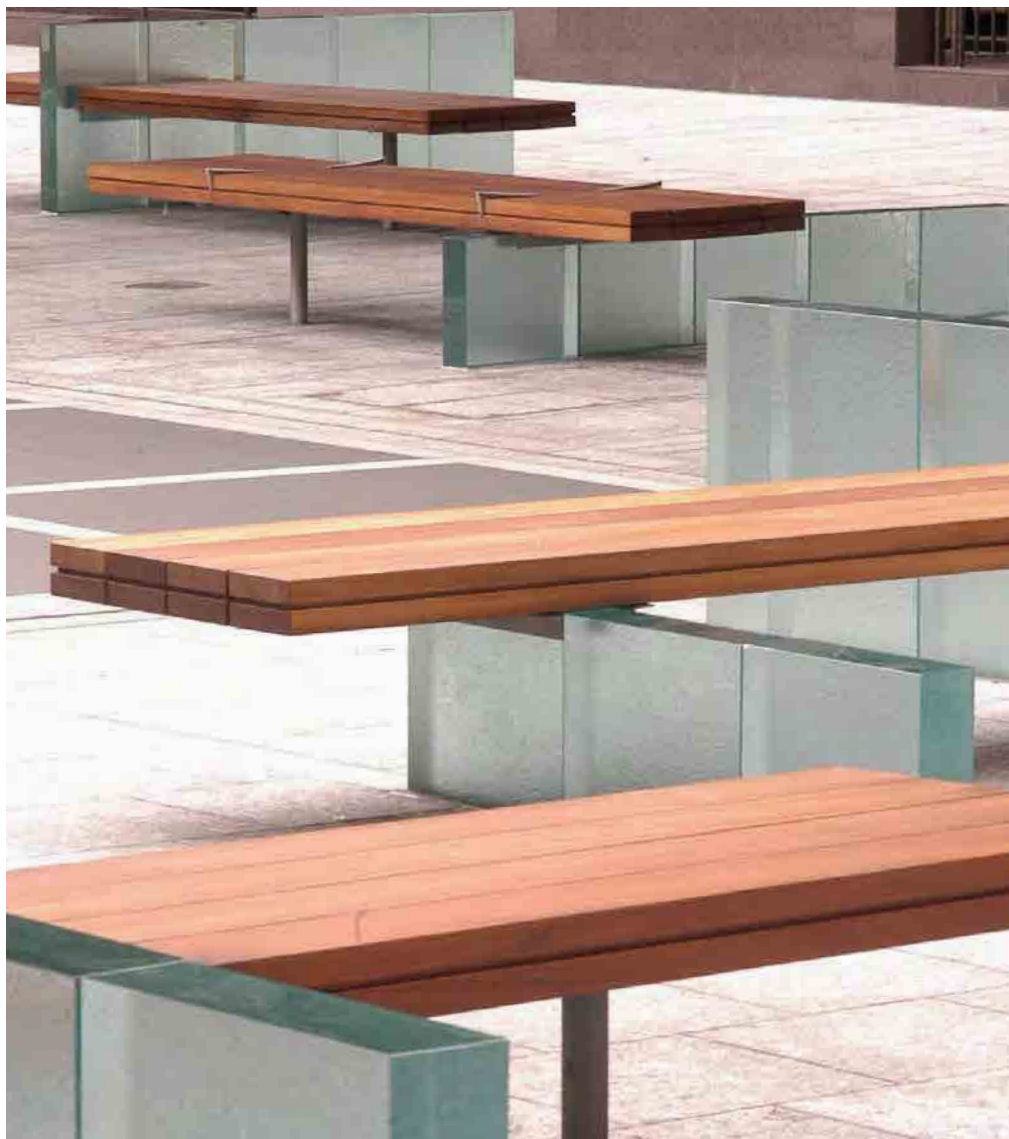
Panel edges are rough cast and can be polished.

Please note: small bubbles can appear within the body of the glass through the manufacturing process.

Thermal Stress

Any installation should take into account and plan to avoid rapid heating or cooling of the glass as this will reduce the potential of thermal stress fractures.





SPECIFICATION: Available in annealed glass only.

MAX. PANEL SIZE & WEIGHT: Slab size of fbloc® is dependant on the site's weight limitations and is usually manufactured to a maximum weight of 250kg.

THICKNESS: 50mm - 130mm. Other thicknesses available on request.

WEIGHT:

- 30mm thick = 75kg/m²
- 40mm thick = 100kg/m²
- 50mm thick = 125kg/m²
- 60mm thick = 150kg/m²
- 70mm thick = 175kg/m²
- 80mm thick = 200kg/m²
- 90mm thick = 225kg/m²
- 100mm thick = 250kg/m²
- 110mm thick = 275kg/m²
- 120mm thick = 300kg/m²

GLASS OPTIONS:

- Float Glass (slight green tint) - as standard
- Low Iron (crystal clear)
- Body Tinted (transparent coloured)
- Mirror Backed

EDGE OPTIONS:

- Polished all round (PAR)
- Arrised all round (AAR)
- Ground all round (GAR)

SURFACE FINISHES: Sandblast (etch) to front and/or rear face of glass.

APPLIED FINISHES: Opaque colours, transparent colours or mirror finish can be applied to the rear of the glass.

PROCESSING OPTIONS: Due to the thickness of fbloc there are limitations to drilled holes, cut-outs and shaping the glass. Please speak to our Sales Team for more information.

TOLERANCES: +/- 3mm (glass size)

APPLICATIONS

Screens

Signage

Flooring

Counters

Lighting

Furniture



INTRODUCTION

For over 40 years, Chelsea Artisans & Fusion Glass Designs have developed a creative and commercial approach to the design, manufacture, supply project management and installation of architectural decorative glass.

Many years of experience, extensive technical knowledge and our ability to overcome technical and creative challenges has enabled us to be commissioned on a wide range of major projects in the UK and internationally. The work we have produced is widely admired for both its quality and originality.

PROCESSING

Chelsea Artisans & Fusion Glass Designs provide a full in-house glass processing service including the processing of float, low iron, mirrored and back-painted glass in 4mm-25mm thicknesses.

DESIGN

If the standard range of products does not fulfil a project's requirements, our in-house Design Service is available to provide bespoke solutions:

- Colour matching to RAL, Pantone or Dulux Trade references
- Patterns
- Textures
- Full artwork to client's brief.

SAFETY & STANDARDS

All glass produced by Chelsea Artisans & Fusion Glass Designs:

- Conforms to BS 6206, BSEN 12600 and required international safety glass standards
- Can be combined with fire rated glass to specification
- Can be integrated into insulated/double glazed units.

INSTALLATION

Chelsea Artisans & Fusion Glass Designs offer a project management and installation service throughout the UK.

APPLICATIONS

These include but are not limited to the following:

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|--------------|-------------------|---------------|
| • Cladding | • Stair treads | • Furniture |
| • Partitions | • Balustrades | • Features |
| • Screens | • Doors | • Commissions |
| • Canopies | • Signage | |
| • Flooring | • Reception desks | |

DIAMOND SYSTEM

The renowned and unique range of patented products that set the standard for impact resistance and safety using annealed glass. Tested to withstand the severest impact and also to resist explosive blast, Diamond System products also enhance the versatility of glass and provide designers and architects with greater scope to explore new applications.

DIAMOND DÉCOR®: Coloured or digitally printed panels.

DIAMOND DÉCOR® SATINOVO: Coloured panels with satin acid etched finish to front face.

DIAMOND MIRROR®: High quality clear silver or tinted mirror.

DIAMOND MIRROR® SATINOVO: High quality clear silver or tinted mirror with satin acid etched finish to front face.

These products can be tailored to clients' requirements:

- Range of surface finishes available
- Cut-outs, drill holes, countersunk holes
- Large panel sizes available
- Impact resistant to BS 6206 Class A and shatterproof
- Full range of polished/anodised/coloured edge trims available.

FUSION GLASS : KILN FORMED

With an extensive kiln cast glass facility, we are able to provide a wide range of standard and bespoke kiln formed products.

TEXTURED & PATTERNED: Glass is heated to form over refractory moulds.

fbloc®: Monolithic fused glass block.

rbloc®: Fused recycled glass which gives it a rich, organic and crystalline structure.

These products can be tailored to a client's requirements:

- Curved to a radius
- Cut to complex shapes
- Toughened or laminated
- Range of applied surface finishes and colours available.

FUSION GLASS : SURFACE DECORATION

Surface decoration involves more traditional forms of glass decorating methods. These can be applied to toughened, laminated, kiln formed and curved glass in various effects which can be layered and have colour or mirror applied.

SANDBLAST: Effects range from simple frosting and etching to more complex deep-carved 3-dimensional work.

SCREEN PRINT: Patterns or graphics printed onto glass in hard wearing UV-resistant frit enamel colours which fuse to the glass through the toughening/tempering process.

FUSION GLASS : LAMINATE

An ideal product for use in structural, acoustic and decorative applications as the process allows for a wealth of possibilities. As well as the PVB (polyvinyl butyl) or EVA (ethylene-vinyl acetate) interlayer, other materials can be laminated between glass sheets. Our standard range of products include:

COLOUR LAMINATE: Opaque & transparent coloured interlayers.

MESH LAMINATE: Metal mesh in various colours and patterns.

FABRIC LAMINATE: Fabrics in various colours, textures and patterns.

DIGITAL PRINT LAMINATE: Digitally printed high-resolution image interlayer.

Processing options:

- Flat sheets
- Curved to a radius
- Annealed or toughened glass of any thickness can be used to create safety glass.

DIMENSIONS

DIAMOND DÉCOR® & DIAMOND MIRROR®

Maximum panel size = 1150mm/1200mm x 3000mm

Thicknesses = 6mm, 8mm, 10mm, 12mm, 15mm, 18mm, 19mm, 25mm

KILN FORMED SHEET

Maximum panel size = 3100mm x 2100mm

Thicknesses = 6mm, 8mm, 10mm, 12mm, 15mm, 19mm, 25mm
(also available as laminates)

fbloc®

Maximum panel size = Dependant on glass thickness

Thicknesses = 50mm - 130mm (130mm in fused cast blocks)

rbloc®

Maximum panel size = 1200mm x 2000mm

Thicknesses = 20mm, 25mm (additional thicknesses on request)

SANDBLASTED GLASS

Maximum panel size = 3210mm x 5500mm

LAMINATED GLASS

Maximum panel size = 2100mm x 4700mm

Thicknesses = 10mm, 14mm (additional thicknesses on request)

FOR MORE INFORMATION PLEASE VISIT OUR WEBSITE
OR CONTACT OUR SALES & TECHNICAL TEAM.