




ARMOURSCREEN®

toughened screen-printed safety glass

Armourscreen® silk-screened, coloured, toughened safety glass can be custom-manufactured for a range of interior and exterior applications. Armourscreen can be screen-printed with specific logos or customised designs in one or two colours. The printed design is fused into the surface of the glass, ensuring the integrity of the material and its enduring colour-fastness.

Armourscreen can be used for flush-glazed curtain walling and entrance assemblies, as well as glass doors, internal partitions and squash court panels. Silk-screened glass protects against glare and solar heat radiation by reducing direct light transmission. This feature is a great advantage in overhead canopies and sun-facing curtain walls.



colours

Standard colours: Etch White, White, Blue, Green, Grey, Black, Orange, Brown. Custom colours available on request.

applications

Armourscreen is ideal for applications which require the design benefits of colour and style, the functional benefits of solar heat control and shading from direct sunlight, the screening benefits to control through-vision and provide a balance between transparency and privacy, together with the structural and safety benefits of toughened glass.

Architectural

With Armourscreen, you can introduce any required design theme to flush-glazed curtain walls, entrance assemblies, overhead canopies, sliding doors, partitions, walls, balustrades, bulkheads, foyers, lift lobbies, lift interiors and many other possibilities.

Doors and windows

Armourscreen is ideal for custom-designed shower doors and screened patio doors. Coloured motifs can also be silk-screened onto cottage panes for windows and doors.

Furniture and shopfittings

Further applications of Armourscreen extend into furniture and shopfittings where reception counters, table-tops or any other glass surfaces can be screened to carry through a particular design theme.

Industrial products

In the industrial market Armourscreen satisfies the demand for branded oven doors on microwave or conventional units, as well as fridge doors in retail and other commercial installations.

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printing & finishing

- Any two colours can be used on one piece of glass. The natural glass presents a third colour.
- Colours can be overprinted.
- Designs can be reversed out of colours.
- Designs can be printed up to 2 mm from the edge of the glass. This is important where design continuity is required in butt-jointed glass panels (e.g. curtain walling, partitions, balustrades etc.)
- Any type size, from 6pt Helvetica upwards, can be printed.
- Edges can be bright polished for frameless installations.
- Further screening options are available on larger sizes of glass.
- Glass thickness can range from 4 mm to 19 mm.

characteristics

Structural strength

As a result of the extreme heating and rapid cooling process to which it is subjected, toughened safety glass is much stronger than ordinary float glass. It is thus especially suited for structural and safety glazing. As a toughened safety glass, Armourscreen has a high resistance to impact and wind loading. It also withstands extreme heat and cold and has a thermal differential-shock capacity of up to 200°C.

Solar control

In Armourscreen, the density of the screen imprinted onto the glass, whether in a dot-matrix pattern, in vertical or horizontal banding, or in any other specified design, will determine the degree of shading and solar control afforded by the glass. A typical dot-matrix screened curtain wall can eliminate around 50% of direct light transmission, and solar heat loadings are reduced accordingly.

characteristics

Durability

The coloured, ceramic design print is UV-stabilised and, like all glass, Armourscreen is weatherproof, resistant to corrosion and easy to clean.

Safety

In the unlikely event of the glass being broken, it disintegrates into small, relatively harmless particles and so minimises the injuries often associated with broken glass.

Drilling and edge working

Armourscreen cannot be cut or worked after it has been toughened because, with the balanced stresses set up in the glass during the toughening process, any working is likely to cause breakage. All work of this nature must therefore be completed before the glass is toughened.

sizes

Thickness can range from 4 mm to 19 mm. It is imperative that SmartGlass be consulted regarding the lead times for supply of product. Varying production constraints apply to different sizes. Please refer specific requirements to SmartGlass.

Nominal thickness (mm)	Normal size limits (mm)	Approximate mass (kg/m ²)
6	Min: 300 x 300 Max: 2000 x 3100	15