



# Compass Glass Limited



## Structural Glass, Aluminium and Steel Constructions

SKY-FRAME  
Frameless insulated sliding doors

# Compass Glass Ltd

## Solutions in Structural Glass and Aluminium

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### Introduction

Based in South West London and established in 1991, Compass Glass is a specialist glazing contractor with a wealth of experience and knowledge in a variety of glass and architectural metalwork constructions.



Compass Glass specialise particularly in the fields of:

- Bolted structural glazing
- Structural silicone applications
- Fire resistant glazing
- Fire resistant steel framing
- Aluminium and steel curtain walling

The company reputation has been built on innovation and reliability with most processes being undertaken by our in-house departments.



### Applications

- Bolted structural glass facades, single, double and triple glazed
- Structural silicone bonding
- Solar control and acoustic applications
- Glass balustrades and full height barriers
- Glass stair treads and stringers
- Canopies and overhead glazing
- Commercial entrances, frameless and aluminium framed
- Glass floor panels for internal and external applications
- Fire resisting glazing, steel framed and frameless options
- Aluminium curtain walling, capped and structurally glazed options
- Oversize steel framed doors, manual or automatic opening.
- Glazed lift shafts
- Associated architectural metalwork



- Structural steelwork
- Glass decoration – sandblasting, silk-screen printing
- Full design and CAD facilities
- Architect detailing and specifications
- Estimating and Technical Departments

## Compass Glass Ltd Solutions in Structural Glass and Aluminium

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### Bolted Structural Glazing

Compass Glass can provide frameless structural glass solutions to overcome the most demanding of requirements.

Depending on the project requirements, the glass constructions can be single, double or triple glazed.

#### Single glazed

- Clear toughened float glass
- Body tinted toughened glass
- Glass heat-soak tested to BS EN 14179
- Flush countersunk fixing

#### Double glazed

- Clear toughened float glass
- Low emissivity glass to  $1.1\text{Wm}^2\text{K}$
- Solar control glass to  $1.1\text{Wm}^2\text{K}$
- Products available from most European glass manufacturers
- Various laminated glass constructions
- Flush external leaf, no bolt penetration to avoid cold bridging



#### Triple glazed

- U-value as low as  $0.5\text{Wm}^2\text{K}$
- Improved acoustic performance



### Applications

- Vertical facades
- Inclined facades
- Roof glazing
- Canopies
- Lift Shafts
- Entrances
- Floor panels
- Stair treads



Compass Glass has full design and technical capability, working with architects to detail and specify at concept stage, through to the main contractor to achieve a successful site completion.

### Brackets and Support Structures

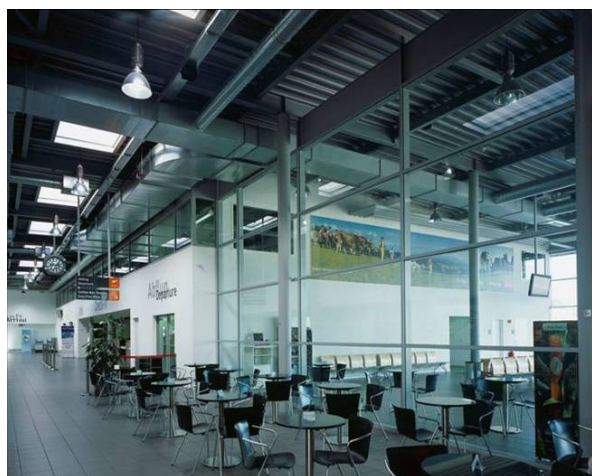
- Cast stainless steel brackets, electro-polish finish
- Stainless steel spring plates, no.4 satin or no.8 polished finish
- Hooked pin style brackets and bolts, no.4 satin or no.8 polished finish
- Glass fins, propped cantilevered, cantilevered or simply supported including all associated metalwork
- Stainless or mild steel support posts in various finishes

## Compass Glass Ltd Solutions in Structural Glass and Aluminium

### Fire Resisting Glazing

Compass Glass can design, manufacture and install fire resisting glass and framed constructions up to a maximum of 180 minute integrity only fire rating

This complex area of glazing is one in which Compass Glass specialise. There are numerous combinations of framing and glass available and advice should be sought directly with our estimating department to discuss your project requirements



Courtesy of KMS Forster

It is important that particular procedures are followed when specifying fire resisting glazing to ensure compliance with fire test evidence.

Compass Glass will formulate a structured response to pricing requests to show compliance.

In some situations it is not possible to show total compliance, on these occasions Compass Glass will work with the system manufacturers to obtain, where possible, a fire test assessment.

Our independence gives us the flexibility to offer any framing system available and also to offer glass from most of the European fire glass manufacturers.



Courtesy of Saint Gobain Vetrotech

### Applications

- Insulated systems to 120/120 fire rating
- Un-insulated systems to 180/0 fire rating
- 'Frameless' butt jointed systems to 60/60 fire rating
- Framed doors with double action opening to 60/30 fire rating
- Painted steel or stainless steel finishes
- Automatic sliding doors to 30/0 fire rating
- Opening lights on automatic actuators in partnership with SE Controls



## Compass Glass Ltd Solutions in Structural Glass and Aluminium

### SKY-FRAME

Frameless insulated sliding doors

At one with nature and still protected. When the rain is hammering against the window we want to feel secure and be protected from the wet and cold within our four walls.

Sky-Frame allows you to enjoy the benefits of seclusion if you need it and overwhelming openness if you want it. This innovative window system provides security and comfort by means of optimum insulation and a silent electric drive.

Back in the 1920's, world famous Architects Ludwig Mies van der Rohe, Le Corbusier, Walter Gropius and Richard Neutra laid the foundation for a new and revolutionary space concept.

They opened up the building structure and disposed of spatial restrictions in the architecture. The 'flowing room' was born, and is still inspiring Architects all over the world.

Sky-Frame, the 'frame-less' high-tech window, opens up rooms up to four metres high and complies with all of the usual regulations and meets the highest of standards.

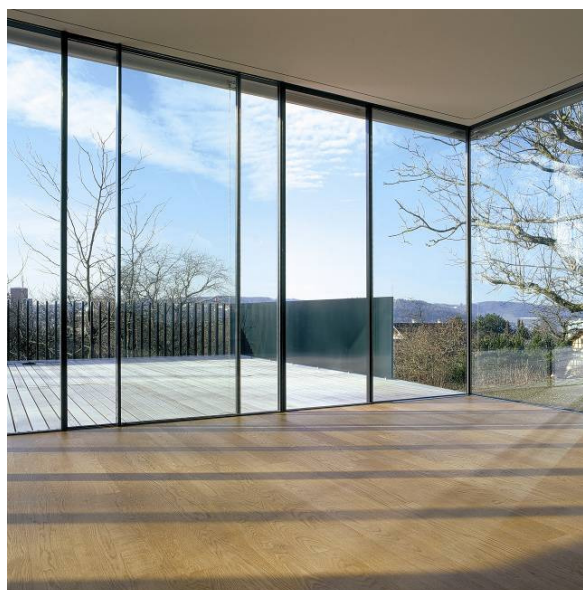
Fixed and sliding sections can be combined; a 20mm vertical glazing bar where two sections overlap is all that is visible of the frame. For centre openings the vertical bar is wider, 30mm for off-set systems and 80mm if both sections run in the same rail.

Up to four track rails make it possible to slide several elements one behind the other. Corners completely out of glass and corner openings are also possible. The sliding sections can be up to 4m tall and can have a maximum surface area of 8m<sup>2</sup>.

Compass Glass is an established sales partner and a approved installer of the Sky-Frame system and will provide architectural and technical support as required.



Courtesy of Sky-Frame



Courtesy of Sky-Frame



Courtesy of Sky-Frame

## Compass Glass Ltd Solutions in Structural Glass and Aluminium

### Residential Glass Assemblies

Compass Glass can provide frameless structural glass solutions to overcome the most demanding of requirements.

Depending on the project requirements, the glass constructions can be single glazed, double glazed or triple glazed.

#### Double glazed facades

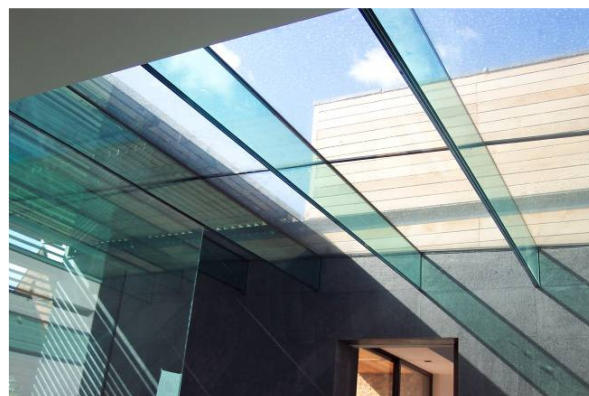
- Clear toughened float glass
- Low emissivity glass to  $1.0\text{Wm}^2\text{K}$
- Heat mirror glass to  $0.6\text{Wm}^2\text{K}$
- Solar control glass to  $1.1\text{Wm}^2\text{K}$
- Products available from most European glass manufacturers
- Various laminated glass constructions



Compass Glass has extensive experience and knowledge in the specification of solar control and acoustic glass with full design and technical capability, working with architects to detail and specify at concept stage, through to the main contractor to achieve a successful site completion.

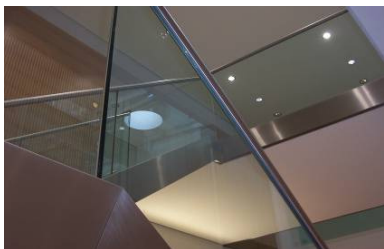
### Applications

- Structurally glazed enclosures
- Solar control and acoustic applications
- Glass floor panels for internal and external use including walk-on applications
- Structurally glazed roof lights
- Sliding doors, glazed and/or framed
- Fire resisting glazing, steel framed and frameless options
- Glass staircases
- Glass balustrades
- Full height glazed partitions
- Canopies and overhead glazing
- Internal and external glass doors
- Aluminium and steel framed windows and doors
- Associated architectural metalwork
- **SKY-FRAME**  
Frameless insulated sliding doors
- Structural steelwork
- Glass decoration – sandblasting, silk-screen printing
- Full design and CAD facilities
- Architectural consultation, detailing and specification advice
- Estimating and Technical Departments



## Compass Glass Ltd Solutions in Structural Glass and Aluminium

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Bolted structural glazing  
Structural silicone applications  
Fire resistant glazing  
Fire resistant steel framing  
Aluminium and steel curtain walling  
Domestic Glass Structures

SKY-FRAME  
Frameless insulated sliding doors

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