



### Glass block flooring

Glass blocks flooring is used in all types of situations from bridge walkways, mezzanine floors, balconies, corridors and public highways outside buildings, allowing natural daylight to flood below.

Glass floor blocks and lenses used in horizontal applications are specially manufactured and differ from glass blocks used in vertical walling.

The most common way to specify or install glass block flooring is to use precast, manufactured to order under factory-controlled conditions to suit individual project specifications.

Precast glass block flooring ensures:

- Factory-controlled conditions of manufacture
- Correct quantity, gauge and positioning of reinforcement bars to specified loadings
- Consistency of premixed mortar to provide calculable mortar strength
- Vibration in special moulds to improve strength
- A dry trade product delivered to site that can be installed in minutes

### Floor glass block characteristics

Solid, hollow, floor glass blocks are manufactured in the same way as wall blocks. They have a thicker face, are annealed for longer increasing the surface strength, also the face is totally flat where a wall glass block has a slightly concaved rim close to the edge of face.

### Lens and paviour characteristics

Floor pavours are produced from molten pressed glass. They have a flat surface (circa 22mm thick) and have four walls but no secondary face and are available in square or circular formats.

Lenses are generally 20-22mm thick to ensure strength and also have a flat, smooth glass finish, available in 100x100mm and 200x200mm square formats. To increase the level of anti-slip resistance the surface can be sandblasted (removing a micro-layer of glass to create a slightly coarse surface).

The level of anti-slip is increased by the concrete joints of the panel. Slip resistance is measured on the overall surface of the panel, not just the glass or concrete (a slip resistance factor of R11 is achieved).

It is possible to replace broken blocks/lenses but is advisable to use a specialist company as a horizontal support structure has to be erected and specialist mortars are required.

Paviour and Floor Glass Block					
Ref	P12.60	P15.55	P15.80	PR12.60	P19.100
Dim in mm	120x120x60	150x150x55	150x150x80	ø120x60	190x190x100
Weight/paver	1.2kg	1.6kg	2kg	1.1kg	3.5kg
Quantity/m <sup>2</sup>	33-40	23-28	23-28	33-40	15-18
Surface	Clear	Clear	Clear	Clear	Clear
Appearance	Ribbed	Ribbed	Ribbed	Clear	Frosted

Mechanical Strength (Tested by public laboratory)			
Type	Average Load	Surface	Result
P12.60	194KN	144m <sup>2</sup>	13.5MPA
P15.80	309KN	225m <sup>2</sup>	13.8MPA
P19.100	535KN	361m <sup>2</sup>	14.8MPA

