



Glass Partitioning and Doors

Glass partitioning provides a modern and sophisticated solution to providing internal enclosures and wall partitions for a variety of applications. One of the benefits of using glass over solid wall is that light can still pass through, thus creating a feeling of space and a light airy environment.

There are many different options when choosing the right glass for your partitioning project which will vary according to your individual and legislative requirements. When you need absolute privacy you might choose sandblasted or diffusa laminated glass with acoustic sound control. For partial privacy, simple decorative designs or your company branding can be sandblasted onto the glass.

On select projects for clients requiring the 'wow factor', technically advanced ESG Switchable™ LCD Privacy Glass can be used to provide absolute privacy at the touch of a button.

If you are unsure of what you need please talk to one of our advisors.

Buying Guidelines



Double skin

6mm glass can be used if the glass is framed along all sides and used in a double skin application. The maximum recommended module sizes are 1200mm x 2500mm

Single skin

The maximum recommended height for single skin partitions are:

Thickness	Toughened	Laminated
10mm	2400mm	
10.8mm		2400mm
12mm	3000mm	
12.8mm		3000mm
15mm	3600mm	
16.8mm		3500mm
19mm	4200mm	



Office Partitioning.

It is also recommended that glass is embedded at least 12mm into a channel, to hold the glass securely in place. These figures comply to BS5234 standard. Compliance to BS5234 is not mandatory unless it forms part of a contract.

For most applications the glass edge is flat polished with a standard back arriss for silicone butt jointing. However, we also produce bespoke edge work for specific dry joint systems, where our customers require a precise size and/or angle on the back arriss.

Full height partitions will often require some form of manifestation to meet current regulations and prevent people from walking into them. This is achieved by sandblasting the surface of the glass with a manifestation or the customer's own design.



Essex Safety Glass Ltd, Units 1-3 Moss Road, Witham, Essex CM8 3UQ

Tel: 01376 520061 Fax: 01376 521176 Web: www.esguk.co.uk Email: sales@esguk.co.uk

Acoustic Glass Options



For environments where a sound barrier would be beneficial, we advise specifying acoustic glass.

What level of noise reduction is required?

25 dB	Low to normal speech can be overheard and interpreted easily
30 dB	Standard to loud speech can be overheard and discriminated easily
35 dB	Loud speech can be distinguished and interpreted under normal background levels
40 dB	Loud speech can be heard but not easily distinguished
45 dB	Loud speech can be heard but not distinguished
50 dB	Very loud speech or shouting can be heard but not distinguished

Overview of single skin glass types to be used to achieve particular dB ratings

32 dB	6 mm toughened
35 dB	6.8 mm acoustic laminate 10.8 mm PVB laminated
40 dB	14.8 mm acoustic laminate
45 dB	See double glazed skin options
50 dB	See double glazed skin options

Overview of double skin options to be used to achieve particular dB ratings

Thickness of pane	Gap between panes					
	30mm	50mm	75mm	100mm	200mm	250mm
6mm	32 dB	33 dB	35 dB	36 dB	39 dB	40 dB
8mm	34 dB	35 dB	37 dB	39 dB	42 dB	44 dB
10mm	36 dB	37 dB	39 dB	41 dB	45 dB	46 dB
12mm	38 dB	40 dB	42 dB	44 dB	48 dB	49 dB

(Sound reduction can be achieved when both pieces of glass are of the same thickness. dB rating varies according to air gap between the two panels.)

Products, Processes and Applications



Optional features

- Sound reduction
- Fire resistant
- Low iron • Mirrored
- Tinted
- Satin finish • Ritec coating
- ESG Switchable Privacy Glass

Processes

- Drilling • Sandblasting
- Notching • Cut outs
- Toughening
- Corner mitering
- Polishing • Laminating

Applications

- External walkways
- Internal corridors
- Meeting rooms
- Office space
- Privacy screening
- Shop fittings
- Smoking areas

Quality Standards

Toughened Glass: manufactured in accordance with the latest standard 'Glass in building – thermal toughened sodalime silicate safety glass BS EN 12150 : (Parts 1 & 2) : 2000, incorporating 'Glass in building – impact test BS EN 12600 : 2002' and 'Glass in building – four point bending test BS EN 1288-3 :2000'.

Laminating: conducted in accordance with 'Glass in building – Laminated glass and laminated safety glass – BS EN 12543 (Parts 1-6:1998 and BS EN 14449:2005). The EVA interlayer is manufactured in accordance with 'UNI EN ISO 12543-4:2000' and is certified by the manufacturer.

Safety: ESG TuffLam satisfies all safety glazing requirements of BS 6262 : Part 4 : Safety related to human impact, Regulation 14 of the Health and Safety at Work Act as well as Approved Document N of the Building Regulations. It is particularly suited to areas where enhanced performance is required.

