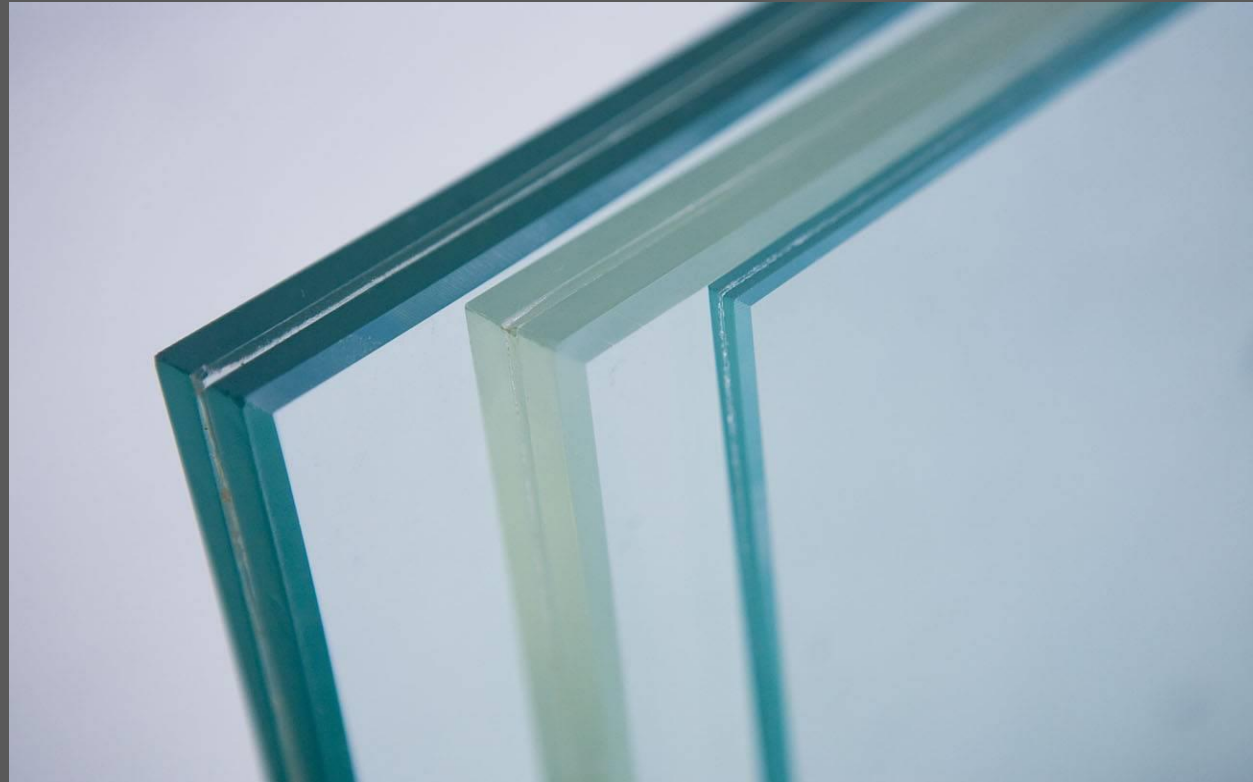




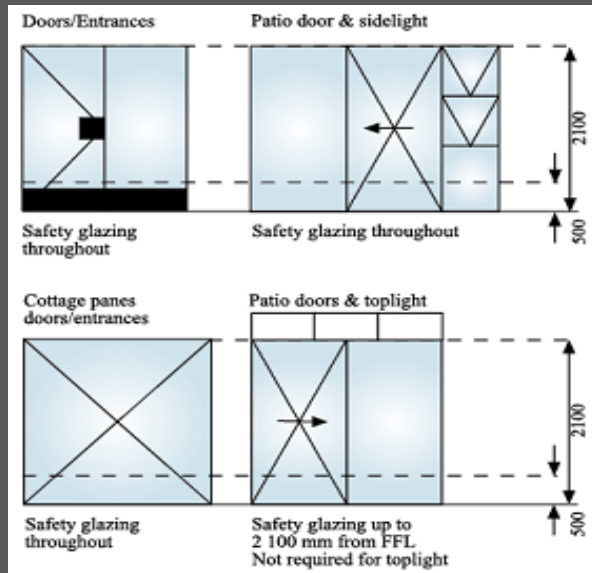
# *GLAZING REGULATIONS*



**SABS 0400-1990**

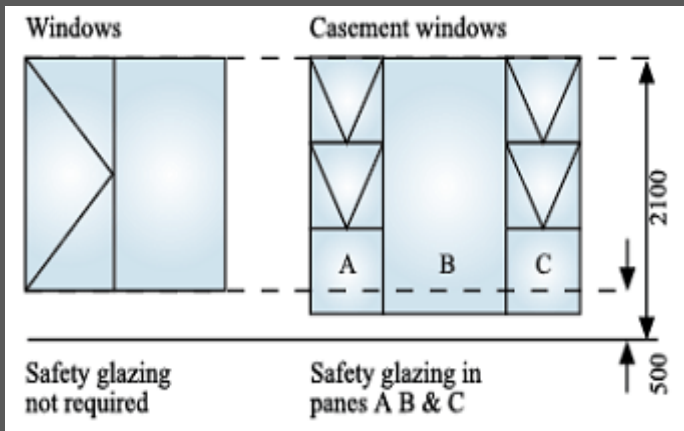
## BUILDING REGULATIONS:

- Always ensure that the glass you select complies with the National Building Regulations, which set out stringent safety standards governing the installation of glass in buildings. Failure to comply with these regulations could have serious legal implications.
- In terms of the National Building Regulations, glazing material must provide an appropriate level of protection in the case of human impact. For example, safety glazing is required in doors and entrances, windows, bath enclosures, balustrades, shop fronts, stairways and other areas.
- **DOORS AND ENTRANCES**
- Any pane of glass installed in any entrance door or door sidelight shall be glazed with safety glazing material.



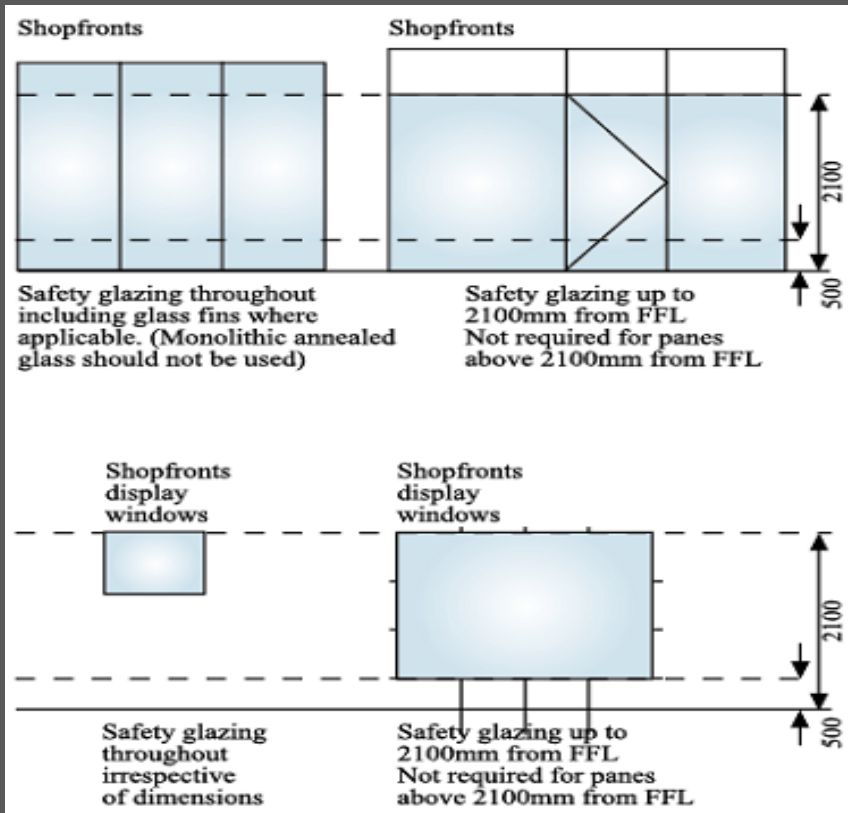
## WINDOWS

Any window with a sill height less than 500 mm shall be glazed in safety glazing material. In addition, any window positioned where persons are likely, on normal traffic routes, to move towards such window, shall either have a sill height not less than 800 mm or shall be glazed with safety glazing material.



## SHOP FRONTS

Any glass used in any shop front within 2100 mm from the floor shall be glazed with safety glazing materials.



## BALUSTRADES

All glazing to balustrades must be of safety glazing material.  
NB: The minimum height for balustrades is 1000 mm and 1200 mm around swimming pools.

**Table A: Dimensions for vertical glass supported in a frame supported all round in external walls in buildings where the height measured from the ground to the top of such wall does not exceed 10 metres.**

|                                  | Maximum pane area, m <sup>2</sup> |      |     |     |     |     |     |
|----------------------------------|-----------------------------------|------|-----|-----|-----|-----|-----|
| Nominal glass thickness in mm    | 3                                 | 4    | 5   | 6   | 8   | 10  | 12  |
| Monolithic Annealed Glass        | 0.75                              | 1.5  | 2.1 | 3.2 | 4.6 | 6.0 | 6.0 |
| Patterned Annealed & Wired Glass | -                                 | 0.75 | 1.2 | 1.9 | 2.6 | 3.4 | -   |
| Laminated Annealed Safety Glass  | -                                 | -    | -   | 2.9 | 4.3 | 5.7 | 5.7 |
| Toughened Safety Glass           | -                                 | 1.9  | 3.0 | 4.5 | 8.0 | 8.0 | 8.0 |

**Table B: Dimensions for vertical glass supported in a frame all round in internal walls.**

|                                  | Maximum pane area, m <sup>2</sup> |      |     |     |     |     |     |
|----------------------------------|-----------------------------------|------|-----|-----|-----|-----|-----|
| Nominal glass thickness in mm    | 3                                 | 4    | 5   | 6   | 8   | 10  | 12  |
| Monolithic Annealed Glass        | 0.75                              | 1.5  | 2.1 | 3.2 | 4.6 | 6.0 | 6.0 |
| Patterned Annealed & Wired Glass | -                                 | 0.75 | 1.2 | 1.9 | 2.6 | 3.4 | -   |
| Laminated Annealed Safety Glass  | -                                 | -    | -   | 4.1 | 6.0 | 7.2 | 7.2 |
| Toughened Safety Glass           | -                                 | 3.0  | 4.2 | 6.4 | 9.2 | 9.2 | 9.2 |

**Table C: Dimensions for vertical glass supported in a frame on two opposite sides in external walls in buildings where the height measured from the ground to the top of such wall does not exceed 10 metres.**

|                                  | Maximum span in metres |      |     |      |      |      |     |
|----------------------------------|------------------------|------|-----|------|------|------|-----|
| Nominal glass thickness in mm    | 3                      | 4    | 5   | 6    | 8    | 10   | 12  |
| Monolithic Annealed Glass        | -                      | 0.4  | 0.5 | 0.6  | 0.85 | 1.0  | 1.3 |
| Patterned Annealed & Wired Glass | -                      | 0.25 | 0.3 | 0.35 | 0.5  | 0.6  | -   |
| Laminated Annealed Safety Glass  | -                      | -    | -   | 0.55 | 0.8  | 0.95 | 1.2 |
| Toughened Safety Glass           | -                      | 0.55 | 0.7 | 0.85 | 1.15 | 1.3  | 1.8 |

**Table D: Dimensions for vertical glass supported in a frame on two opposite sides in internal walls.**

|                                  | Maximum span in metres |      |      |      |      |      |      |
|----------------------------------|------------------------|------|------|------|------|------|------|
| Nominal glass thickness in mm    | 3                      | 4    | 5    | 6    | 8    | 10   | 12   |
| Monolithic Annealed Glass        | -                      | 0.65 | 0.8  | 0.95 | 1.3  | 1.55 | 2.0  |
| Patterned Annealed & Wired Glass | -                      | 0.4  | 0.48 | 0.57 | 0.78 | 0.9  | -    |
| Laminated Annealed Safety Glass  | -                      | -    | -    | 0.9  | 1.25 | 1.5  | 1.95 |
| Toughened Safety Glass           | -                      | 0.9  | 1.1  | 1.3  | 1.75 | 2.0  | 2.7  |