

RULE XVIII - GLASS AND GLAZING

SECTION 1801. General Requirements

1. This Rule shall apply to exterior glass and glazing in all Uses/Occupancies except Groups A, B and J Occupancies **not** over three (3) storeys in height, and to interior and exterior glass and glazing in all occupancies subject to human impact.
2. Standards for glass and glazing materials shall conform to the provision on glass dimensional tolerance, breaking stress level, and design safety factors.
3. Each light (glass panel) shall bear the manufacturer's label designating the type and thickness of glass.
4. Each light with special performance characteristics such as laminated, heat strengthened, fully tempered or insulated, shall bear the manufacturer's identification showing the special characteristics and thickness by etching or other permanent identification that shall be visible after the glass is glazed.
5. Appropriate measures shall be provided to deter persons walking into fixed glass panels where the floor contiguous thereto on to both sides is approximately the same level.
6. Glass panels **not** adjacent to wall openings may be made obvious by horizontal bars at guardrail height, a 450 millimeters opaque bulkhead, distinctive glass such as etched or translucent for guardrail height, fixed flower bins or other appropriate construction arrangement.

SECTION 1802. Area Limitation

1. Exterior glass and glazing shall be capable of safely withstanding the load due to wind pressure for various height zones above ground acting inward or outward. The area of individual light shall **not** be more than the maximum allowable area of glass according to the wind load multiplied by the appropriate adjustment factor.
2. Glass panels which are more than 600 millimeters in width and 180 millimeters or more in height adjacent to wall opening shall be safety glass unless a bulkhead of opaque materials not less than 450 millimeters high is provided.
3. The table provided below shall govern the glass area limitation for use in large area along shopping malls, commercial buildings, theaters, offices, institutional public buildings and factories other than Group A, B and J Occupancies.

THICKNESS (millimeter)	WIDTH (meter)	LENGTH (meter)
8	1.10 and below	1.10 and below
10	2.25 and below	2.25 and below
12	3.00 and below	3.00 and below
15	Over 3.00	Over 3.00

SECTION 1803. Glazing

Glass firmly supported on all **four** (4) edges shall be glazed with minimum laps and edge clearances in accordance with Section 1801 paragraph (2), *Provided*, that glass edge clearance in fixed openings shall be **not** less than what is required for wind and earthquake drift. For glass **not** firmly supported on all four (4) edges and design shall be submitted for approval of the **Building Official**. Glass supports shall be considered firm when deflection of the support at design load does not exceed 1/175 of the span.

SECTION 1804. Louvered Windows

Regular plate, sheet, or patterned glass in jalousies and louvered windows shall not be thinner than 5.6 millimeters minimal and shall not be longer than 1.20 meters. Exposed glass edges shall be smooth.

SECTION 1805. Impact

Frameless glass doors, glass in doors, fixed glass panels, and similar glazed openings which may be subject to accidental human impact shall conform with the requirements provided under Section 1802 on impact loads of glass; *Except* in the following cases:

1. Bathtub and shower enclosures shall be constructed from approved shatter-resistant materials, such as: wire-reinforced glass **not** less than 5.6 millimeters thick; fully tempered glass not less than 4.8 millimeters thick; or laminated safety glass not less than 6.4 millimeters thick.
2. Glass lights located **not** less than 450 millimeters above the adjacent finished floor or walking surface.
3. Glass lights when the least dimension is **not** greater than 450 millimeters.
4. Glass lights 1.50 sq. meters or less in area.

(emphases supplied)
Rule XIX follows