

## Proposed Shower Enclosures IBC Amendments

Since the 2003 IBC makes no mention of shower doors or enclosures (except in 2406.3.5), our amendments will add a new section on **Shower Enclosures**. Submitted by the **Fire & Safety Glazing Council** a division of the *Americas Glass Association*.

### Section 2410 Shower Enclosures.

**2410.1 General.** Glazing and installation of framed and frameless shower units shall be in accordance with manufacturer's instructions and the AGA Industry Frameless Shower Standards (AGA-SH1) and comply with Category II of CPSC 16 CFR 1201. Note: Any more restrictive ADA or local code provisions for persons with disabilities shall prevail.

**2410.1.1 Structural Framing.** The entire surround of a shower opening shall be no less than nominal wood stud construction or steel studs with wood furring.

**2410.1.2 Jumping Retainers.** A device shall be installed in the header that prevents a sliding panel from accidentally vacating the opening.

**2410.1.3 Towel Bars and Handles.** Horizontal bars and handles shall not be mounted to the interior of the glass surfaces. A vertical handle may be mounted to the interior of the door.

**2410.1.4 Hinged Doors.** Hinged doors shall open outward and provide a minimum of 22 inches (559 mm) clear opening when opened to 90°. **Bi-folding doors:** No portion of a bi-fold door may open into the shower area

**Exception:** Self centering doors that swing both ways are permitted provided there is no restriction for the door to open outward to 90°.

**2410.1.5 Steam/Canopied Enclosures.** The roof or enclosed glass top of a shower enclosure shall be 3/8 inch (9.5mm) tempered/laminated glass or 3/8 inch (9.5mm) plastic and shall not exceed 36 inches (914 mm) in the short dimension.

### 2410.2 Frameless Light Glass Shower Enclosures.

**2410.2.1 Frameless Light Hinging and Sliding Shower Doors** shall be a minimum of 3/16 inch (5.0 mm) tempered glass.

**2410.2.2 Size Limitation.** Compression hinged doors shall not exceed 28 inch (711 mm) in width. Compression attached rollers to sliding doors shall not exceed 32 inches (813 mm) in width. Neither may exceed 70 inches (1778 mm) in height

**Exception:** When ¼ inch (6 mm) tempered glass is used with through glass fastening, hinged doors shall not exceed 36 inches (914 mm) in width and 96 inches (2438 mm) in height.

**2410.2.3 Panels.** All 3/16 inch (5mm) or 1/4 inch (7mm) panels shall be framed and attached to three sides.

### 2410.3 Frameless Heavy Glass Shower Enclosures.

**2410.3.1 Hinges.** Hinge weights shall not exceed the manufacturer's tested maximum load. Each hinge shall be labeled with its load rating and the label may not be removed before inspection. Three hinges are allowed only when a plumb substrate is provided.

**2410.3.2 Screws.** Stainless steel screws shall be used of minimum size #10 and a length sufficient to make a mini-

mum penetration into the wood frame of 1½ inch (38 mm). This penetration into the substrate shall be sealed with a non-hardening, asphalt base sealant.

**2410.3.3 Hinged shower doors and stationary panels** shall be a minimum of 3/8 inch (10 mm) tempered glass.

**2410.3.4 Recommended Clearances.** Clearance between a door and panel or door and wall shall be no less than 1/8 inch (3.2 mm). Clearance at the bottom of the door shall be no less than 3/16 inch (5 mm) between the exposed glass edge and the curb or threshold.

### 2410.4 Size Limitation.

**2410.4.1 Shower doors** shall not exceed 38 inches (965 mm) in width or 150 lbs. in weight.

**Exception:** These limits may be exceeded only when a licensed engineer submits a stamped calculation.

**2410.4.2 Non-load Bearing Panels<sup>2</sup>.** 3/8 inch (10 mm) panels may not exceed 110 (2794 mm) unites inches, width + height (UI). 1/2 inch (12 mm) panels shall not exceed 120 (3048 mm) UI. Height limitation, 84 inches (2134mm).

**Exception:** When three sides of the panel are attached to the structure, the UI limitations may be removed<sup>3</sup>.

### 2410.5 Mechanical Fastening Hardware (metal clips, header, tube bracing or channels)

**2410.5.1 U Channels** shall be fastened to the finished shower wall. The only permitted penetration through the finished shower wall shall be the mounting screws for clips, channels, and hinges. Reglet design is not recommended.

**2410.5.2 Clip Location.** Clips on the long edge of the glass shall be located between 4 inches (102 mm) and 8 inches (203 mm) from each end of the glass. A third clip shall be on the long edge if the glass exceeds 48" in length. Clips shall be centered on the short edge on panels up to 16 inches (406 mm) in width. For greater widths, two clips shall be used, one at each 1/3 point.

**2410.5.3 Non-load-bearing side panels** shall be mounted by mechanical fasteners on the bottom and the top or bottom and one vertical side.

**Exception:** For two in-line side panels (such as a buttress design) and/or to a return panel, the vertical butt joint(s) shall be sealed with a structural silicone sealant and shall be secured at the top with a joint spanning clip(s) or header.

**2410.5.4 Load-bearing side panels and any return panel** shall be secured with mechanical fasteners on three sides. The minimum width of a load-bearing panel shall be 5 inches (127 mm).

<sup>1</sup> Check opening and clearances for persons with disabilities.

<sup>2</sup> See test Standard – AGA-SH1

<sup>3</sup> A transom shall be considered the same as a header or ceiling mount and shall be secured with channel or clips on 4 sides.

Amended, 1/27/04   Amended, 3/6/04   Amended 3/15/04   Amended 8/4/04  
Amended 9/20/04   Amended 5/2/05   Amended 5/19/05   Amended 5/25/05  
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