

Shower Enclosure Requirements for Installations

A division of the **Americas Glass Association**

The following manual is designed to provide installation instructions, building inspectors, and owners with the minimum requirements for safe, permanent installations of shower enclosures.

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

Rationale for this code development

The primary concern of this code is directed at the replacement of *frameless shower enclosures*. Design practices, *limitless* expanse of unsupported glass have caused an amount of deflection in the glass.

This deflection has caused gradual degradation of joints and of channel and clip mountings. The tempered glass can withstand greater bending than human tolerance. That is not the case. There was not one single failure of tempered glass in the door torture tests. It was the glass mountings that failed.

The limitations printed in this guide are below the fail point of glass mountings. **Failure to follow the requirements in the code and this manual can lead to serious injury from heavy-glass panels.**

Explanation of the code:

The building code is displayed in regular font; the explanation follows the code is displayed in *italics*. Illustrations will use *load bearing* and *non-load bearing* panels and the method of their attachment.

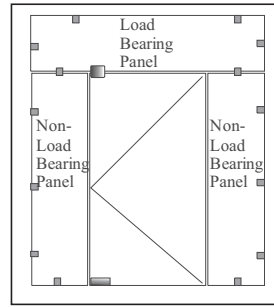


Fig. B

In **Fig. B**, this door is pivoting at the top and bottom. Therefore the load is at the dam and the transom. The transom being fastened to the ceiling eliminates a header.

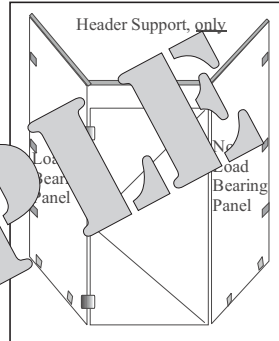


Fig. C

Fig. C illustrates a neo-angle shower enclosure. A header is required at the top of both load and non-load bearing panels and shall be connected at the top.

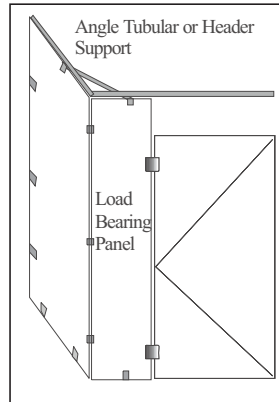


Fig. D

Fig. D shows a load bearing panel connected at right angle to a return panel. A header is required from wall to wall or an angle tubular support.

This 8 page brochure shows the safe limitations of frameless shower doors and panels. This can be an invaluable aid when selling a shower enclosure. The formulas were developed from tested sizes to permit maximum deflection tolerances to protect the integrity of the hinges, pivots, channels and human tolerance to excessive bending. This protects the contract glazier from exceeding dimensions that will cause deflection problems after installation.

Order Form

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