

STRUCTURAL SUPPORT

STRUCTURAL SUPPORT METHODS FOR GLASS FLOORING

Supporting glass flooring panels safely and effectively is critical — and every project is unique. At TCG Glass, we offer a range of structural support options tailored to your specific design and performance needs.

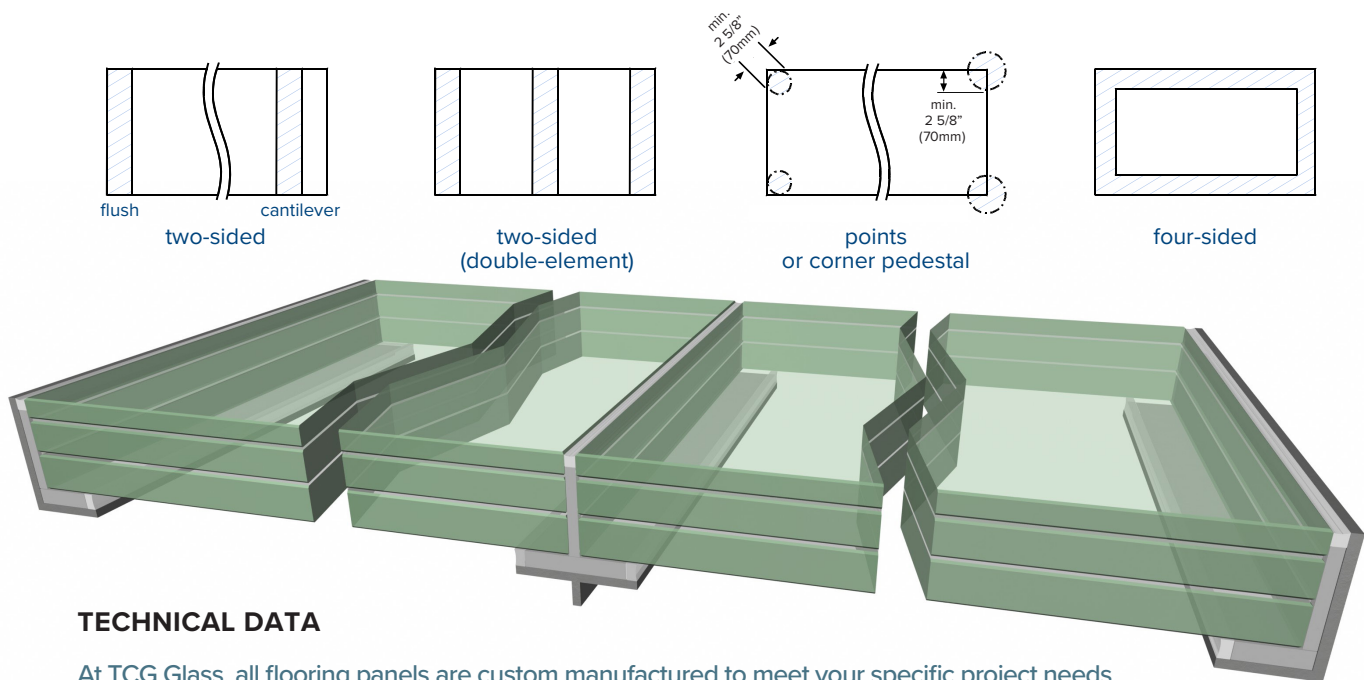
Our preferred method is a four-sided support system, known for its exceptional strength and safety. However, many other support systems can also be engineered to meet safety standards depending on the application.

ENGINEERED FOR SAFETY

Safety is our top priority. That's why every TCG glass flooring project is engineered specifically for your project's requirements, including load calculations, span, and usage.

We are proud to be the only glass manufacturer that includes a detailed structural engineering report for your project — provided as a PDF analysis from a licensed glass-specific structural engineer.

Engineering and design services are available to help you plan confidently from concept to completion.



TECHNICAL DATA

At TCG Glass, all flooring panels are custom manufactured to meet your specific project needs. While standard sizes are available, most panels are fabricated to order for optimal fit and performance.

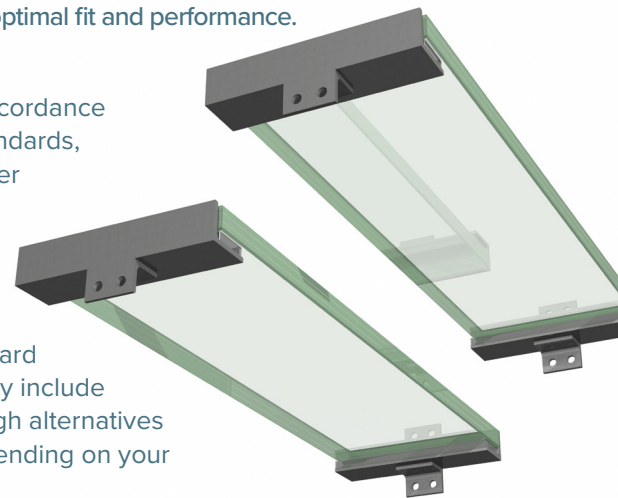
Sizes Available: Each panel is custom sized based on your design and structural requirements. Standard sizes are available upon request.

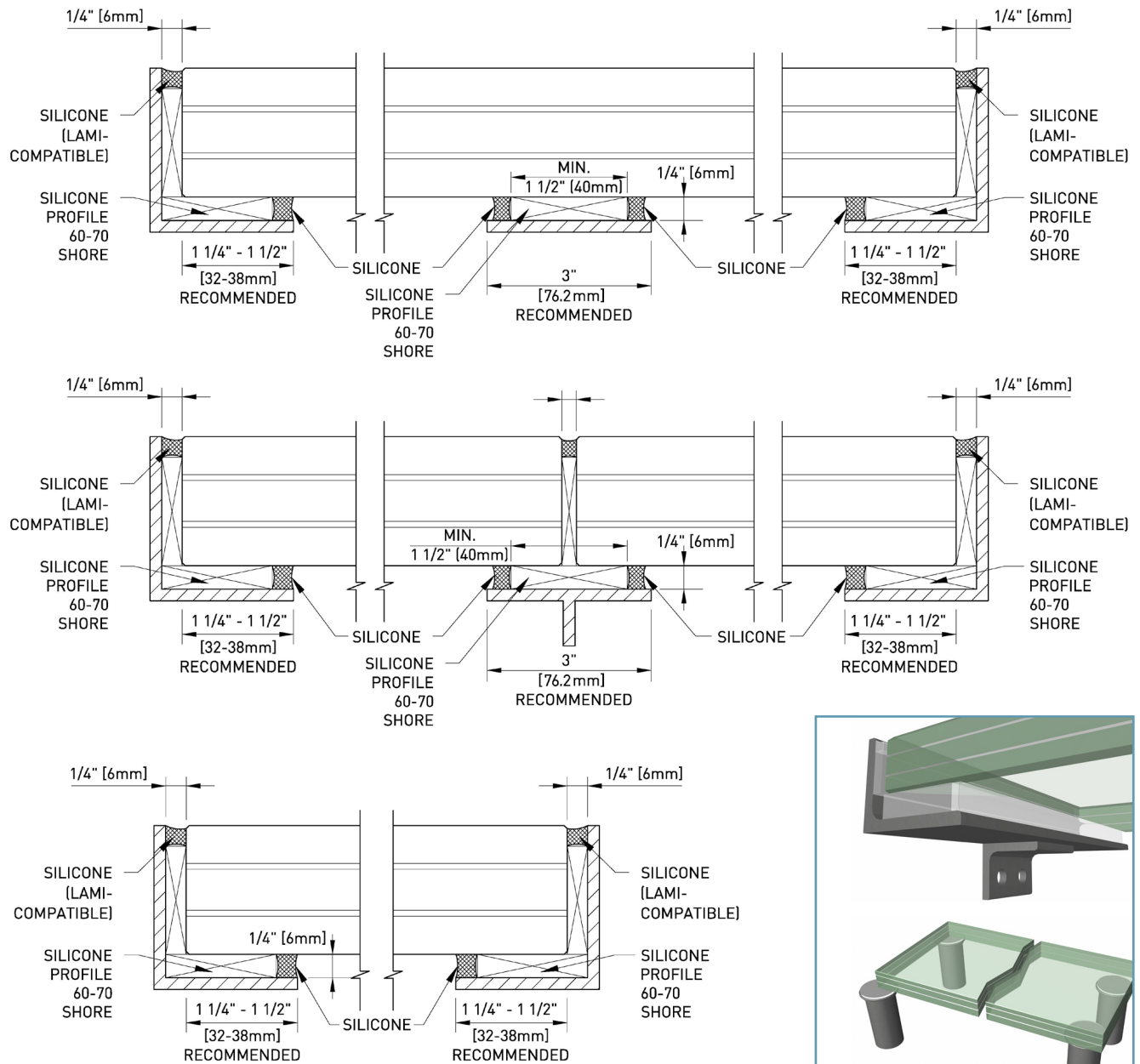
Glass Thickness: Panel thickness and composition will vary by project. A common standard makeup includes three layers of 3/8" fully tempered glass, totaling approximately 1-1/4" overall thickness. Once your project is reviewed, we'll recommend the most suitable glass build-up.

Product Type: We use laminated, fully tempered glass for maximum strength, safety, and durability.

Code Compliance: In accordance with the latest ASTM standards, all glass flooring—whether panels or treads—must be composed of a minimum of three glass lites per panel.

Support Systems: Standard support methods typically include four-sided framing, though alternatives may be engineered depending on your specific needs.





Silicone Setting Strips & Blocks Installation Guidelines

To ensure proper installation and maintain the integrity of your glass flooring system, follow these guidelines for setting strips and blocks:

Setting Strips

Installation: Silicone setting strips must be securely glued to the steel substructure before the glass is set in place.

Silicone Type: Only use non-acidic clear silicone to avoid damage to the glass. We recommend the following tested and approved products: Dow Corning 995 or GE SCS 2800

Note — Use of any unapproved silicone will void the glass warranty.

Setting Blocks

Durometer Rating: Use blocks with a hardness rating of 60–70 Shore.

Recommended Product:

- CR Laurence PSB 250
(Dimensions: 1/4" thick, available in various lengths)
CR Laurence Contact: 1-800-421-6144

Installation Options:

Perimeter Placement: Position a block every 6"–12" around the perimeter of the support.

Full-Cover Method: Use a continuous rubber or neoprene sheet to fully cover the support. This material can be cut to size and laid into place.