



Back-Painted Glass Installation Guide

This guide gives a brief overview of the issues that should be considered when installing back-painted glass for wall cladding. These instructions have been written to contribute to an installation that achieves maximum technical and aesthetic performance of the wall cladding system.

GGI strongly recommends that all crew members have access to a copy of these instructions and have reviewed the contents thoroughly prior to the installation. A copy should always be available on-site during installation. These are general guidelines specific to the installation of back-painted glass and do not supersede local building code requirements.

Job Site Considerations

Surface must be permanently dry and free from all substances that may contribute to coating failure.

If fixing to a painted wall, remove loose paint and conduct adhesive bond testing on the painted finish before starting glass installation. To ensure good adhesion, all surfaces must be clean and free from dust prior to installation. The working environment must also be dust free. ***Very absorbent substrates, such as plasterboard, drywall, wood, and concrete, must be sealed with a quality grade latex primer and allowed to cure before installing the back-painted glass panels.***

The wall should be of uniform color that is a close match to the color of the glass. GGI strongly recommends using the clear CRL silicone referenced in the list of approved back-painting adhesives in this document.

Dead load of the glass must always be supported using “I” or “J” moldings. When installing coated glass panels over 72” (1.8m) in height, mechanical fasteners must be used.

Vertical Surface Installation

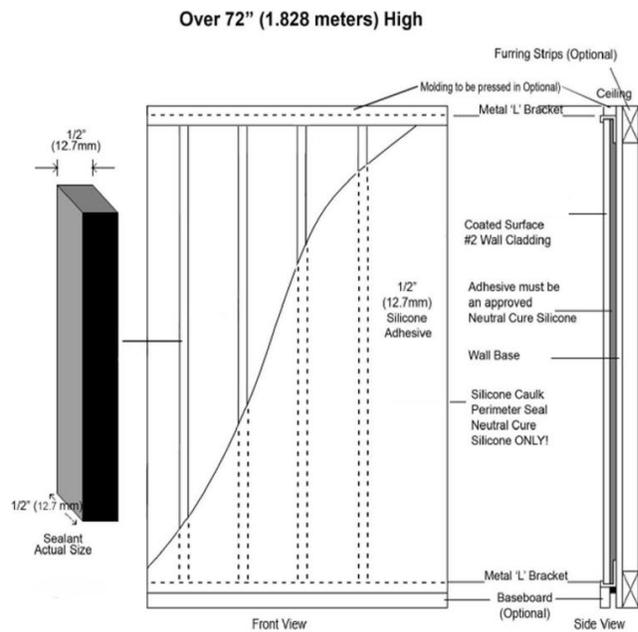
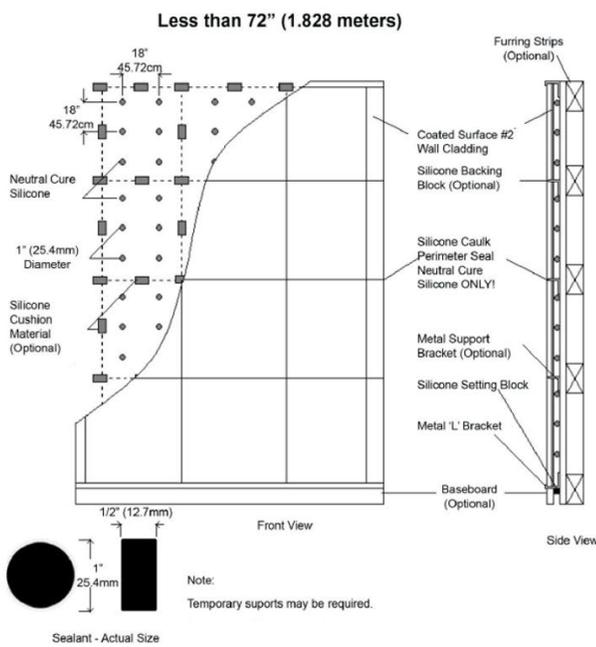
Substrate must be clean, dry, dust and frost free. Wall cladding requires dime-sized dabs of approved* neutral cure silicone adhesive every 12” to 18” (0.3048m to 0.4572m) in a grid pattern. Compressed dabs of silicone should not exceed 1” (24m) wide in size and 1/4” thick.

When applying the neutral cure silicone to the bonding surface, never use a full float or trowel method to apply adhesive. Use only 1" dabs or 1/2" strips (post-compression dimensions).

Only silicone cushion material and setting blocks should be used for spacing and butt joints. Allow adequate cure time prior to application of the perimeter seal.

Please note that the time required to properly allow a sealant to cure may be up to twenty-one day. It is critical to seek the proper information from the silicone manufacturer. Consult with the manufacturers to ensure all glazing components are compatible with back-painted glass.

DO NOT exceed the recommended sealant amount—excess may inhibit cure and lead to staining. Wall cladding panels require bracing until cured.





Approved Back-Painting Adhesives

CRL: Industrial and Construction RTV Silicone
Cat. No. RTV408
Color - Clear

Dow Corning:
995 Silicone Structural Sealant
Clear or color that is similar to back-painted color and not contrasting.

***Note:** Other silicones may work but have not been tested or approved by GGI.