



# Fabrication and Installation Requirements

MKF-66 Rev 01012015

## Fabrication Requirements

- The fabricator must inspect the sheet for damage or defects before fabrication.
- The fabricator must inspect the sheets for proper color match of sheets to be used on the same jobs before fabrication.
- Proper stone working/diamond tooling must be used for cutting, shaping, and polishing GEOS Recycled Glass Surfaces.
- Lamination of GEOS Recycled Glass Surfaces should be done using 2-part polyester, epoxy, or acrylic adhesives
- Inside corners without a seam (one piece top) require a minimum of a  $\frac{1}{4}$ " radius to reduce inside corner stress.
- Inside corners created using 2 pieces utilizing a butt-seam, European seam, or similar style seam do not require inside radius.
- Top and bottom edges on straight runs, and cut-outs should be rounded over or chamfered to a minimum of  $\frac{1}{16}$ "
- Outside corners should have a minimum radius of a minimum of  $\frac{1}{8}$ "

## Cut-outs in GEOS Recycled Glass Surfaces

- Radius cut-outs are recommended but square cut-outs are permitted as long as saw-cut in corners do not extend beyond the corner. Saw-cuts that extend beyond the corner of the cut-out must be completely filled with 2-part epoxy to prevent cracks.
- A minimum of  $\frac{1}{8}$ " clearance must be used around any appliance, cook-top, and sink for expansion.
- Cut-outs require support on all sides within 3" on all sides, no closer than 1" on heat producing cut-outs to avoid trapping heat.
- The use of Nomex heat tape is recommended on cut-outs around heat producing appliances.

## Under-mount Sink Requirements

- Under-mount sinks less than 10 lbs can be mounted using a full bead of silicone and under-mount clips or brackets.
- Under-mount sinks exceeding 10 lbs (example-under-mount cast-iron) must be mounted using cradles or approved brackets attached to the cabinets.
- Integrated solid surface bowls can adhered directly to the underside of GEOS Recycled Glass Surfaces using solid surface adhesive in combination with under-mount clips or brackets.

## Installation Requirements

- GEOS Recycled Glass Surfaces are not recommended for exterior installations
- Cabinets should be flat and true within  $\frac{1}{8}$ " over a 10' span.
- GEOS Recycled Glass Surfaces should not be installed on any cabinet or base that cannot support a minimum of 18 lbs per square foot.
- For GEOS Recycled Glass Surfaces installed between walls a minimum of  $\frac{1}{16}$ " gap is required at each end. For appearance the gap can be caulked with a flexible adhesive.
- GEOS Recycled Glass Surfaces should be fastened to cabinets or base using dabs of flexible adhesive. **NEVER** rigidly ad-here GEOS Recycled Glass Surfaces to "other" materials such as wood, steel, etc.
- Never install mechanical fasteners (screws, nails, bolts, etc) directly into GEOS Recycled Glass Surfaces.
- Never install GEOS Recycled Glass Surfaces over existing countertops.



# Fabrication and Installation Requirements

## Fabrication and Installation

### ***For structures with support on 4 sides and depths:***

- Less than 26", outer perimeter support is sufficient (*maximum length is 120"*)
- Greater than 26", additional front to back support is required every 36" in addition to the outer perimeter support.

### ***For structures with support on 3 sides (e.g., dishwashers, desks and frameless cabinets):***

- Less than 26" deep, additional support is required at widths greater than 36".
- Greater than 26" deep, additional support is required at widths greater than 24".

### ***Cabinet overhangs (e.g. snack-bars, breakfast-bars):***

- Less than 15" no support required
- Overhangs 15"–24" use corbels evenly spaced at no greater than 36-inch intervals.
- Overhangs greater than 24" use a leg or column.

### ***Half-wall (pony-walls, knee-walls):***

- GEOS Recycled Glass Surfaces can over-hang a maximum span of 2" from the edge of wall.
- Overhangs greater than 2" must be supported by a corbel equal to 75% of the length of the overhang.  
(*example: 10" overhang requires a corbel measuring 7.5" under the surface, 7.5" supported by wall surface.*)

## Seams

- All seams must be completely filled with a color matched 2-part polyester adhesive
- Seams must be supported on both sides of the seam, both front and back.
- Seaming over a dishwasher or other heat producing appliance is not recommended and should be avoided.
- Seaming thru a heat producing appliance (e.g. cook-top, pasta boiler, etc.) is not recommended.
- Seam appearance is not a warranty issue. Recommended seam width is less than  $\frac{1}{16}$ "; recommended height mismatch is less than  $\frac{1}{64}$ "