



# GEOS SUSTAINABLE SURFACE

## FABRICATION AND INSTALLATION REQUIREMENTS

### 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 GĒOS Sustainable Surfaces.
- Lamination of GĒOS Sustainable 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 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 1/16"
- Outside corners should have a minimum radius of a minimum of 1/8"

### CUT-OUTS IN GĒOS SUSTAINABLE SURFACES

- Radius cut-outs are recommended but square cut-outs are permitted as long as saw-cut in corners does 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 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 GĒOS Sustainable Surfaces using solid surface adhesive in combination with under-mount clips or brackets.

### INSTALLATION REQUIREMENTS

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

### 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):*

- 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):*

- GĒOS Sustainable 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 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 1/16"; recommended height mismatch is less than 1/64"