



## Technical Bulletin P-004

### Minimum Requirements for Successful Installation for Pure® Surfaces

This technical bulletin addresses standards that must be adhered to when handling, fabricating and installing Pure® Surfaces. By purchasing this material, you agree that you will follow industry procedures for safe handling, fabrication, installation and servicing of customers. Basix Surfaces West offers a Limited Warranty, which can be found on the [www.pure-surfaces.com](http://www.pure-surfaces.com) website.

#### Definitions and Terms

- **Manufacturer** is Basix Surfaces West, and a **Fabricator** is the company that buys slabs and fabricates them into finished products, ready for installation. The **Installer** takes fabricated products and installs them into the final placement. Each party has responsibilities for insuring quality installations.
- The dimensions of 2 cm and 3 cm are referred to as nominal ¾ inch and 1½ inch respectively.

#### Fabricator Requirements

- Inspect slabs upon receipt. Slight color variations and particulate distribution, shape, size or concentrations may occur just as in natural stone products. Slabs are inspected at the factory to insure the highest quality.
- Once a Fabricator has cut a slab, they have deemed it to be acceptable.
- Fabricator is responsible for color matching slabs as well as laying out the orientation to match pattern flow.
- Fabricator is responsible for following industry accepted guidelines for safe handling, fabricating and installing products.

#### Corner Radius Requirements

- When the corner is cut from a solid piece, all inside corners are required to have a minimum radius of ¼ inch to reduce corner stresses.
- No radius is required for L or U-shaped countertop corners that utilize full 45 degree seams.
- Fabricator should break or round over the top and bottom edges of countertops to minimize stress risers and to minimize potential for injuries.
- Radius all outside corners to a minimum ⅛ inch for safety purposes.

#### Cutout Requirements

- All cooktop cutouts are required to have corners with a minimum radius of ¼ inch to reduce corner stresses. The finished corner should be smooth.
- Leave a minimum space of ⅛ between the side walls of the countertop and all appliances or sinks to allow for expansion. This is especially true in the corners.
- Cutouts must be supported on all sides within 3 inches of the edge of the cutout.
- Heavier sinks or appliances may require brackets, cradles or structural support attached to the walls or floor. The Fabricator is responsible for minimizing the load on the countertop.

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Overview of Minimum Installation Requirements

- Pure® Surfaces are only recommended for interior installations.
- Perimeter support is recommended versus full underlayment, especially near heat generating appliances. If an installation requires full underlayment for structural support, see "Support Materials" below for recommendations.
- Pure® Surfaces are heavy material and requires a structurally sound base for installation. It is up to the Fabricator to determine the suitability of support for the installation.
- The installation area must be true and flat within 1/8 inch of a flat surface over a 120 inch length.
- Leave a minimum 1/8 inch gap between Pure® Surfaces and walls for expansion.
- Secure the countertop to the support structure with a flexible 100% silicone adhesive. **DO NOT USE RIGID OR NON-FLEXIBLE ADHESIVE!** The silicone adhesive will allow the top to expand or contract with temperature changes in the room.
- Do not use metal fasteners (screws, nails, etc.) with Pure® Surfaces. Brass inserts or equivalent may be used.

Support Requirements:

Support structures with **4 sided support** require no additional support if the following conditions are met. If the dimensions are exceeded, support is required every 36 inches.

- Countertop depth < 26 inches.
- Countertop length < 118 inches.

Support structures with support on **3 sides** (dishwashers, desks, frameless cabinets, etc.) require additional support.

- 2 Cm with countertop depth < 26 inches requires support every 24 inches.
- 3 CM with countertop depth < 26 inches requires support every 36 inches.
- 2 CM and 3 CM with countertop depths > 26 inches require support every 24 inches.

Support Requirements for Spans and Cantilevers

- The overhang cannot exceed 1/3 of total countertop depth and must be a minimum 24 inches in length.
- 2 cm material requires support every 24 inches, and 3 cm requires support every 36 inches.
- Install support strips where necessary to meet span requirements.
- Outer perimeter support (4 sided box) is acceptable when depth is 26 inches or less.
- Overhangs require at least 2/3 of width to be supported, no more than 1/3 is the overhang.
- No cutouts or holes are allowed in the overhangs.

Material Thickness	Maximum allowable before additional support required	Additional support requirements in addition to a 3/4 inch plywood or metal frame
2 cm	<12 inches	12-18 inches - Corbels >18 inches - Columns or Legs
3 cm	<15 inches	15-24 inches - Corbels >24 inches - Columns or Legs

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### Support Materials

- The following materials are examples of acceptable substrate materials; MDF board, Plywood and Wood.
- Structural steel is acceptable.
- Particle Board, Flake Board, OSB or other non-moisture resistant products are NOT acceptable as a support material.

### Seam Requirements

- Field seams must be supported on both sides of the seam.
- Utilize 2-part polyester epoxy or acrylic adhesive for laminating all edges; color match as required.
- Seam adhesive must completely coat the surfaces to be seamed.
- Recommended seam width is  $< \frac{1}{16}$  inch.
- Seams through an overhang must be supported.
- Seam support paralleling the seam is strongly recommended.
- Seams are not warranted by Basix Surfaces West.

### Edge Detail Production Methods:

Any edge detail that can be done on natural stone is acceptable with Pure® Surfaces. Typical configurations utilize one of three methods:

1. Non-laminated edges are the simplest, strongest and most economical to produce. They are limited to the thickness of the material.
2. Laminated edges are utilized for producing edges thicker than the material. The thicker edge will give the appearance of more mass, but the quality of the fabrication and the color match of the buildup material will affect the final look and quality of the edge.
3. Mitered edges are utilized for producing larger edges. It is not recommended to produce mitered edges over 4 inches unless special support is provided behind the edge to prevent breakage.

Pure® Surfaces website at [www.pure-surfaces.com](http://www.pure-surfaces.com)

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