



## DESIGNING AND FABRICATING WITH AVONITE GLASS SERIES AND NEW PETALS

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The unique translucent quality of Avonite Surfaces Glass products allows you to exercise a great deal of creativity. For this reason, it is expected that there will be many new applications that will produce unanticipated effects. By all means experiment, be creative, and consult with us as you have questions. However, always make sure that the end result will meet your expectations and those of your customer.

### THE NATURE OF THE AVONITE SURFACES GLASS AND PETALS SERIES

Keep in mind that dabs of silicone, supports, and under-mount sink flanges will show through these products like any typical glass. When the products are laminated together for a thicker appearance, such as a drop edge or seam block, they will appear **darker** due to reduced light transmission. These special effects can be worked into the design for a unique aesthetic effect or application.

When Glass products are chosen for more typical applications, where less transparency is desired, the backsides of the finished must be undercoated to hide any supports. For best results, we recommend undercoating the sheet with white latex paint. This brightens the top closer to the sample chip but magnifies the contrast to the darker edge. This effect should be demonstrated to the end user.

Frosted glass offers unique opportunities for painting the back different colors to achieve custom hues that transmit through the sheet.

### SEAM BLOCKS

Previously the use of seam blocks on the translucent Petals and Glass Series was not recommended. The seam block location was apparent and back painting the sheets prevented good bond strength for the seam blocks. This challenge has been resolved by using adhesion primer for the back side painting. This high adhesion primer was developed for hard to paint surfaces such as PVC, glass, and tile.

Recommended:

INSL-X Stix Waterborne Bonding Primer or  
Sherwin-Williams DTM Bonding Primer

For the best results, continue preparing seams with the Wavy Bit. Once the seam is complete, turn the sheet over for the remaining fabrication. Clean the excess glue where the 4" seam block will be applied. Paint the back side with the adhesion primer. Two coats are recommended. Allow to dry completely.

The seam block must run the full length of the seam. Apply a generous amount of adhesive to the seam block and to the edge that meets the back of the buildup edge. Uniform weight should be placed on the seam block to assure even pressure as the adhesive is drying.

### BACKLIT APPLICATIONS

For backlit applications, you may use 1/2" (12mm) acrylic to support larger spans. Using the 1/2" (12mm) acrylic sheet as a solid substrate is recommended. Frosted or white acrylic may be used to diffuse the light source. When adhering the Avonite Surfaces glass product to the acrylic, we recommend small pieces of 3M VHB double sided tape. If clear acrylic is used, it should be sanded with 100 Micron to frost the surfaces. This will help hide the adhesive tape.

**Always test a small piece to judge appearance.**

Backlit Applications that require deck seams or have unsupported spans will require special consideration. Please call Avonite Surfaces Technical Services 800.428.6648 as you have questions.

### SEAMING THE NEW PETALS

The new Petals products should be fabricated the same way as the original Glass Series. Because of the very large petal shapes, these products will have more conspicuous seams. The Petal products are hand crafted creating organic patterns that have different petal flake concentrations across the sheet. This too will affect the appearance of seams in a completed top.

