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Durasein
Inside Corners



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Fabrication and Installation

Inside Corners

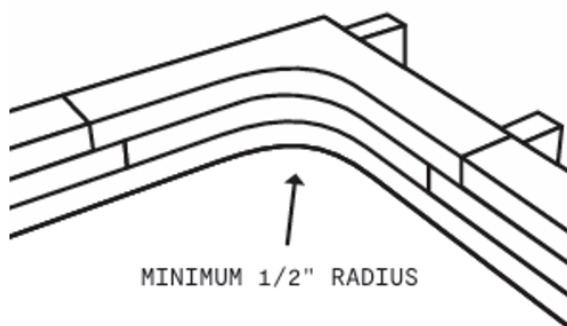
BULLETIN NO.
Inside Corners_0525

TECH INFO
Inside Corners

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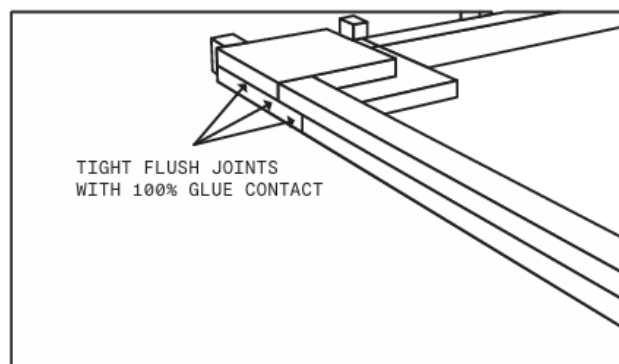
Inside corners of countertops can be sensitive to stresses and therefore need special attention. When planning, fabricating and installing “U” and “L” shaped configurations, please follow the guidelines in this technical bulletin.

Durasein® Solid Surface requires a minimum 1/2" (12 mm) radius on the countertop inside corners. In addition to other drawings in this section, the following diagrams show some suggested details of the corner build-up.

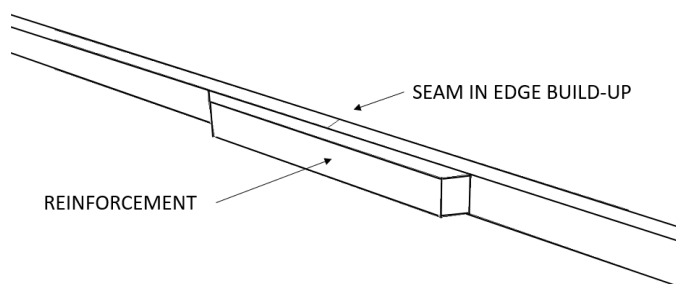


Corner Block Pieces

There are usually two square pieces that make up the corner block. The inside corner blocks should be at least 3"- 4" (76 - 102 mm) square prior to fabrication. If your edges are layered as a vertical or horizontal stacked edge, ensure the joints are staggered in order to increase strength and integrity of this area. Varying the size of the two square corner pieces will help accomplish this.



For single vertical drop edges, reinforce the inside corner with a backing strip that extends at least one inch (25 mm) beyond where the inside block and front edge strip meet. Additionally, reinforce any butt seams in the vertical edge strip with 4" long backer reinforcement with beveled ends.



Make the radius of an inside corner as large as is practical to help to provide structural strength to the corner. We recommend a 1" (25 mm) radius to provide both aesthetic and structural benefits.



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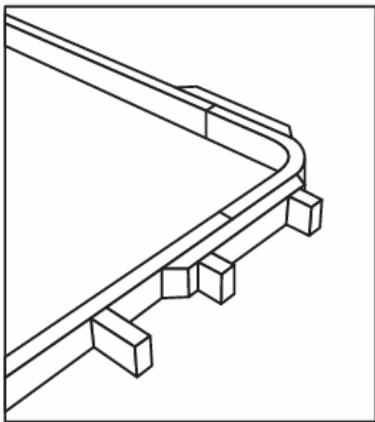
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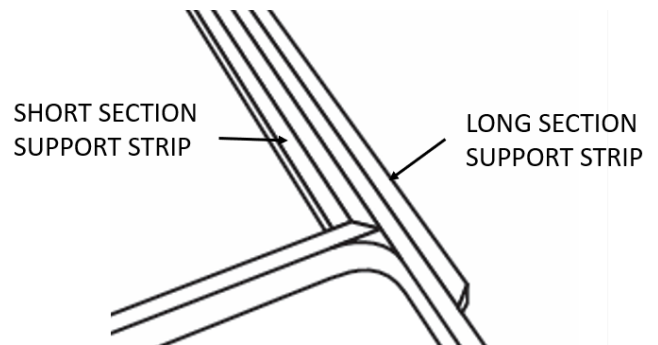
Thermoformed Corners

This method is similar in construction to standard vertical edges with the exception that the strips for the corners are heated and bent into the proper radius. When performing this operation ensure the edge which meets the underside of the deck is sanded or machined flat in order to produce a proper inconspicuous seam. When a thermoformed corner is combined with the single vertical drop edge, reinforcements must be placed at each location where the end of the thermoformed corner meets the straight vertical build-up. The reinforcement strips must be beveled 45° at each end. This procedure applies to both inside and outside radius corners.



V-grooving Technology

The main difference is that this process is used to join two countertops that have been V-grooved. This requires that the seam is now located at the inside corner. In order to accomplish an appropriate inside corner, you will need to add extra support strips to help reinforce the inside corner. For the shorter section of the countertop, the support strip needs to run completely from front to back of the countertop depth. The other longer supporting strip needs to extend at least 1" (25 mm) beyond the inside corner block.



Additionally, a block will need to be seamed into the inside corner and routed to create the required 1" (25 mm) inside corner radius

The next three drawings show the progression of the V-grooved inside corner



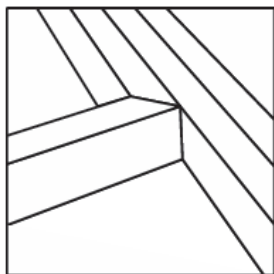
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Fabrication and Installation Inside Corners

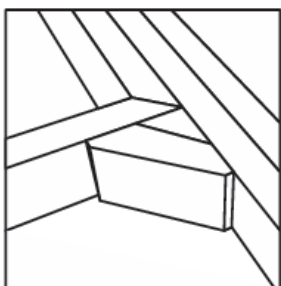
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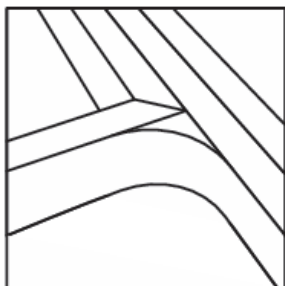
JOINT AT CORNER



CORNER BLOCK INSTALLED



ROUTED TO 1" (25 mm) RADIUS



Tips for Inside Corners

- Stagger joints in built-up strips for stronger edges.
- Reinforce joints in single vertical drop edges.
- Keep back faces of built-up strips flush to eliminate stress risers.
- Sand smooth all exposed edges of build-ups.
- Use **minimum** 1/2" (12 mm) inside corner radiuses for inside corners of countertops.
- Be sure that all joints in the corner blocks are flush at the rear of the build-up. Even small off sets can create areas where stress cracks can start.
- Be sure seams are 100% filled with seam adhesive. Voids in joints can be severe stress risers. A crack can start in the joint and migrate up into the deck.
- Support corner areas properly. Be sure the cabinetry and support pieces can prevent flexing of the countertop at the corner.
- Be sure that both sides of the countertop at an inside corner are level and flat.
- Use flexible adhesives to adhere the countertop to supports and cabinetry.
- Be sure to leave room for expansion and contraction between the support components and the countertop.



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