

CAMBRIA INSTALLATION REQUIREMENTS



SOP # 9.3.3

OBJECTIVE

This technical bulletin provides the quality standards that must be adhered to when installing Cambria quality quartz surfaces.

NOTE: The following requirements pertain to 2cm and 3cm product.

NOTE: If 1cm product is used in a horizontal application, a full $\frac{3}{4}$ " wood substrate is required to properly support the material. All 1cm horizontal applications with overhangs greater than 3" require structural steel with cross member support every 15" on center. Wood products may also be used, though the structure or substructure must provide support without deflection. See Figure 1.

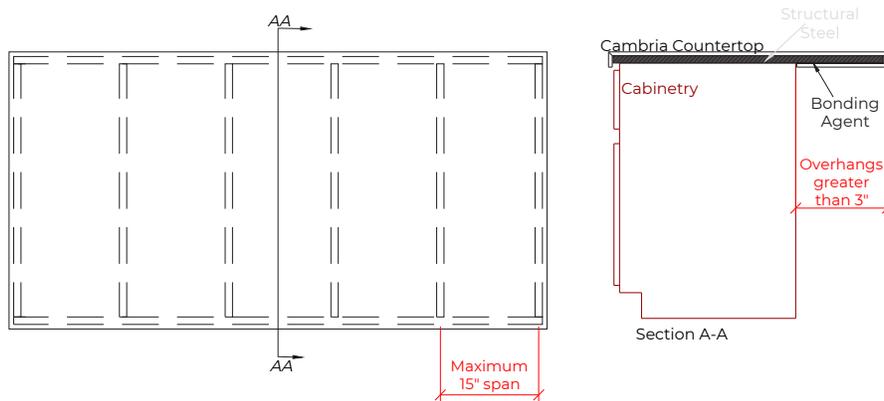


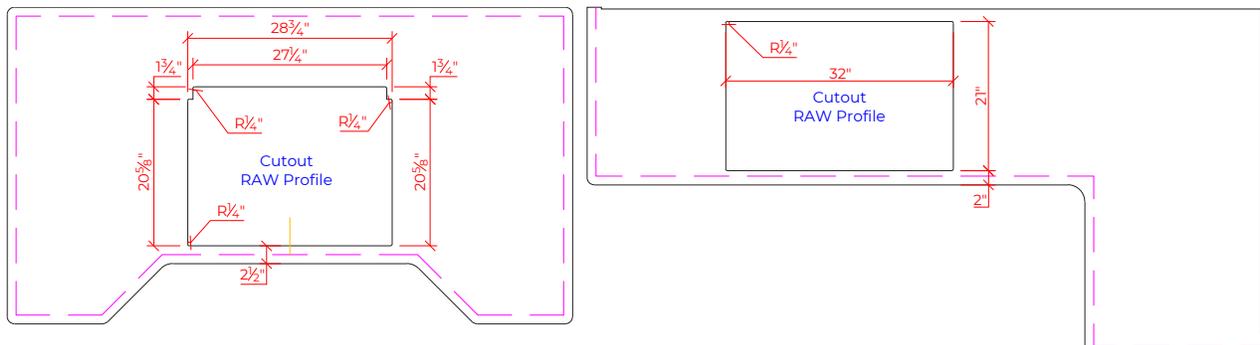
FIGURE 1

NOTE: Use denatured alcohol immediately to remove any excess silicone after installation.

CUTOUT REQUIREMENTS

1. Radius corners are required on all fabricated Cambria countertop cutouts. Square corners can be cut at the install site on cooktop and drop-in sink bowl applications if needed. See Figures 2 and 3.

NOTE: A crack is much less likely to develop in an inside radius corner compared to a square corner.



FIGURES 2 & 3

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- For electrical cutouts in backsplashes, a 50-year, 100% silicone must be applied around the entire perimeter of the cutout to secure the backsplash to the wall. See Figure 4.

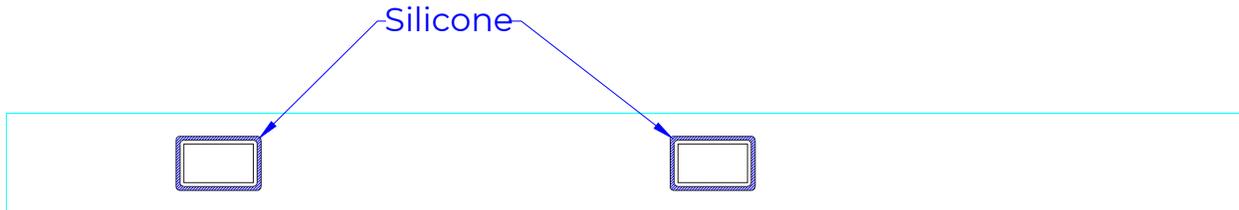


FIGURE 4

- Design all Cambria countertops to provide $\frac{1}{8}$ " (0.125") additional clearance along all sides between top opening and appliance/sink. This additional clearance will allow for expansion. See Figure 5.

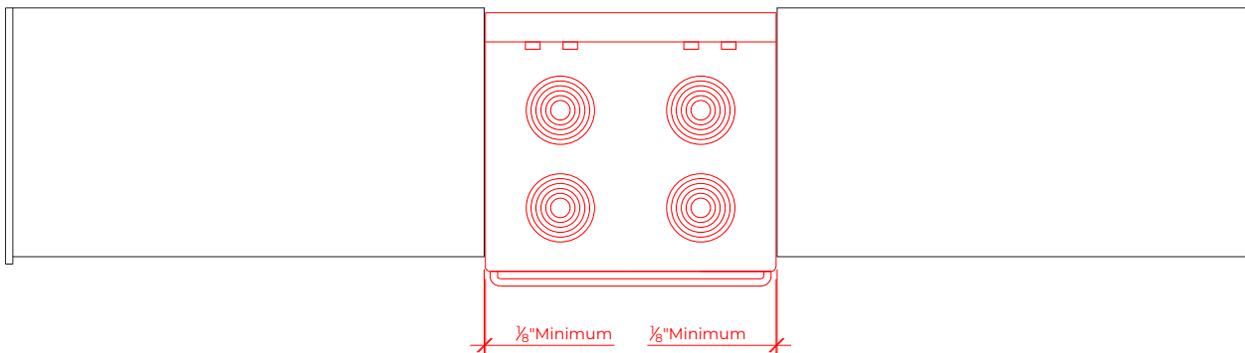


FIGURE 5

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4. All cutouts require additional underside structural support. This additional support must be located within 3" of the opening, along all sides of the opening. See Figure 6.

NOTE: The cabinet walls on this example were cut down to allow for the installation of the cooktop.

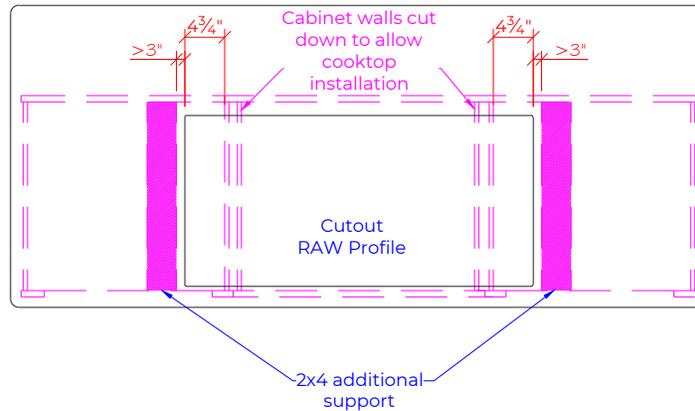


FIGURE 6

5. For 2cm and 3cm applications, undermount sinks must be secured to the underside of the Cambria countertop using sink clips. See Figure 7.

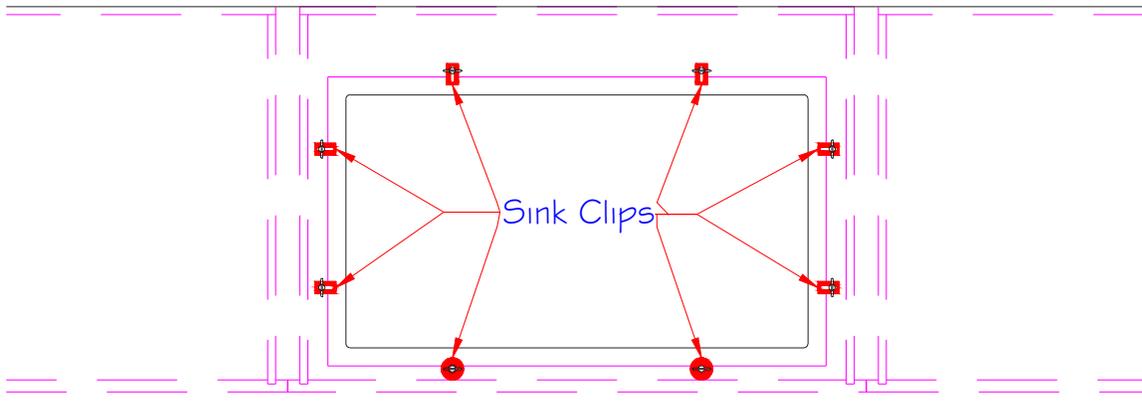


FIGURE 7

NOTE: 1cm horizontal applications require the use of sink support cradles or sink rails. Sinks must not be mechanically fastened to the 1cm Cambria material.

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6. Sink support cradles or sink rails attached to perimeter walls or cabinets are also approved. See Figure 8.

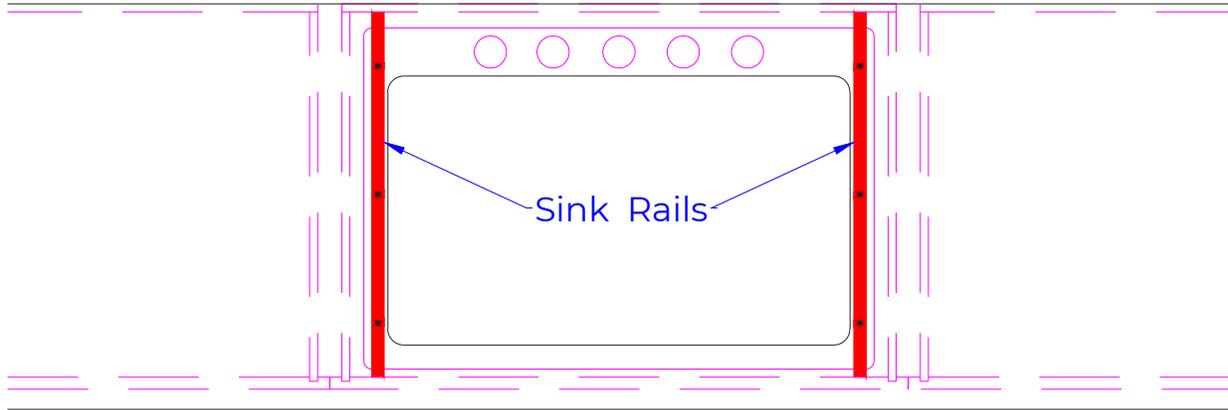


FIGURE 8

7. A constant bead of 50-year, 100% silicone will be applied around the entire perimeter of the undermount sink flange, and the silicone will be sandwiched between the Cambria and the undermount sink when installed. See Figure 9.

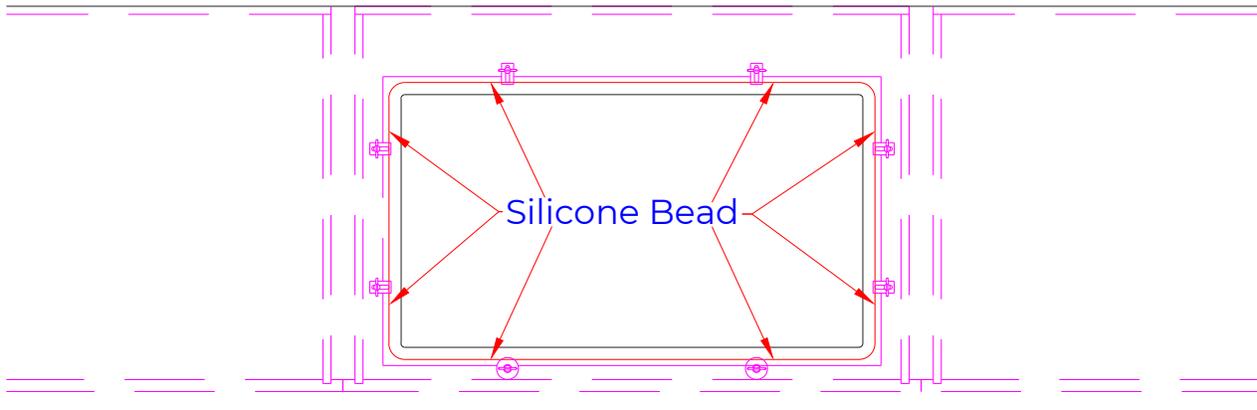


FIGURE 9

- a. Silicone will create a seal between the undermount sink and the Cambria countertop.
- i. Use denatured alcohol **immediately** to remove any excess silicone after the installation of the undermount sink is completed.

NOTE: The use of adhesive as the sole means of sink support is not permitted.

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GENERAL INSTALLATION REQUIREMENTS

8. The cabinets must not be out of plane more than $\frac{1}{8}$ " for every 8' length. See Figures 10 and 11.

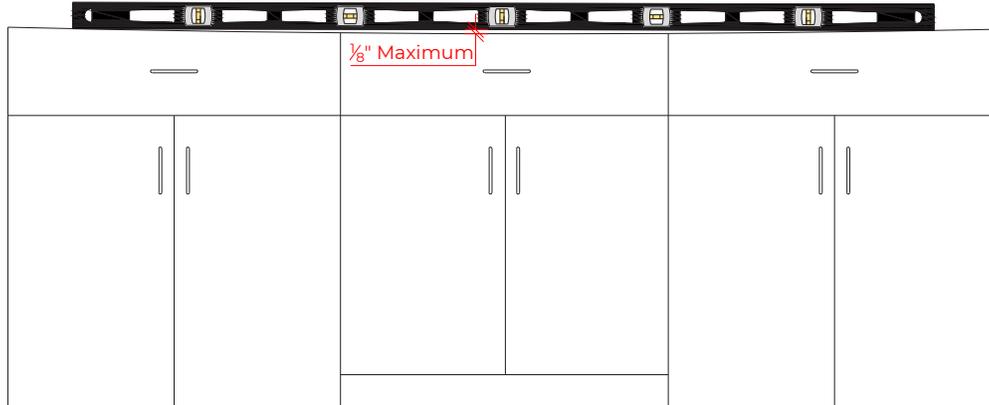


FIGURE 10

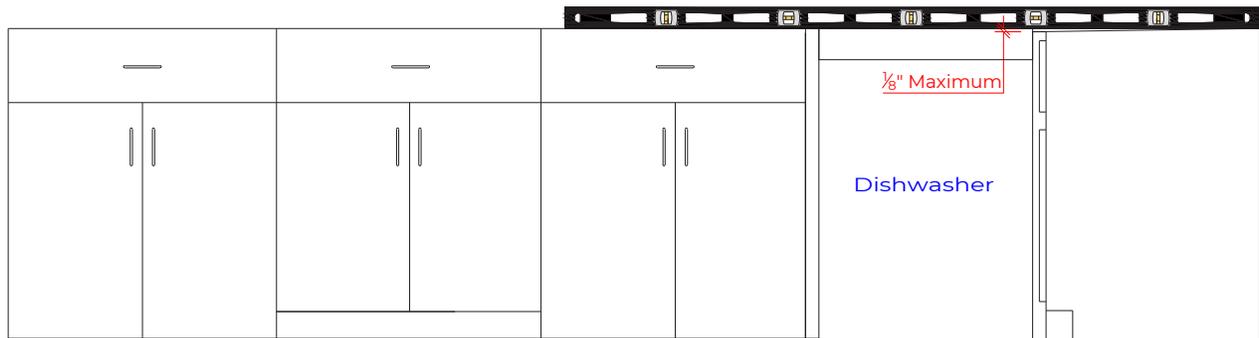


FIGURE 11

NOTE: Cambria countertops must be shimmed onto the same plane at installation.

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9. Visible gaps between Cambria countertops and each wall must not exceed $\frac{1}{32}$ ".
10. Use 50-year, 100% silicone to fasten Cambria to the support. Run a light bead of 50-year, 100% silicone at the intersection point of the Cambria countertop and the substrate or cabinet. This bead will be continuous throughout the entire perimeter. See Figure 12.

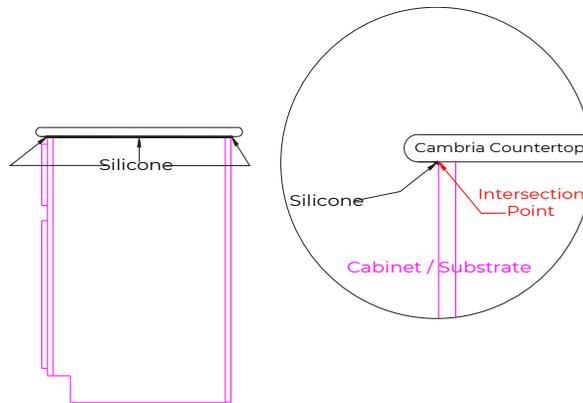


FIGURE 12

NOTE: Do not sandwich silicone between the top of the cabinet or substrate and the bottom of the Cambria countertops.

11. Do not rigidly adhere Cambria to other products. Use only 50-year, 100% silicone to adhere Cambria to wood, steel, ceramic, tile, etc.
12. Apply Cambria backsplashes (strips and full-height) using 50-year, 100% silicone.
13. Never install mechanical fasteners (screws, nails, etc.) directly through Cambria. "Slip fit and glue" inserts may be used with Cambria. Pressure fit inserts are not permitted. See Figure 13.

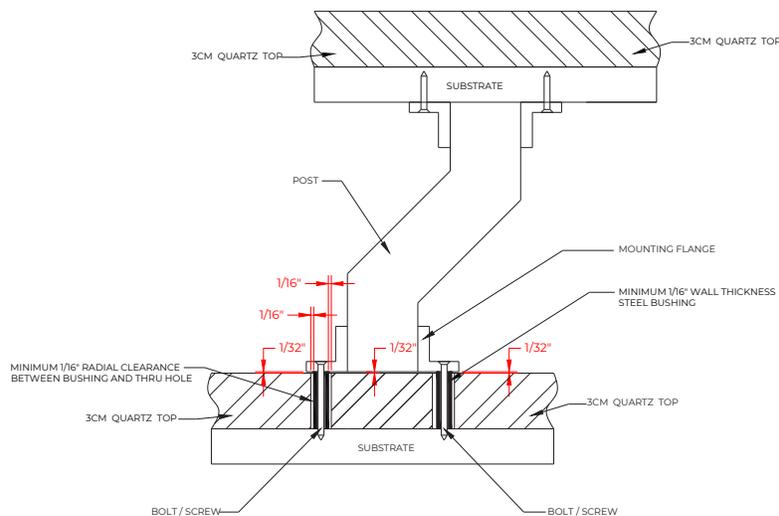


FIGURE 13

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COUNTERTOP INSTALLATION SUPPORT REQUIREMENTS OF CAMBRIA

DEFINITIONS:

Vertical Support: Tall wooden panels (as part of an existing cabinet structure) or wooden 2"x4" material installed with 4" side perpendicular to the countertop.

Substrate:

- ¾" plywood

NOTE: Cambria does not recommend the use of substrate less than ¾" thick on any laminated material.

- ¼" steel or equivalent

NOTE: For steel substrates, a tubular steel skeleton frame may be needed to properly support the Cambria countertop. See Figure 14.

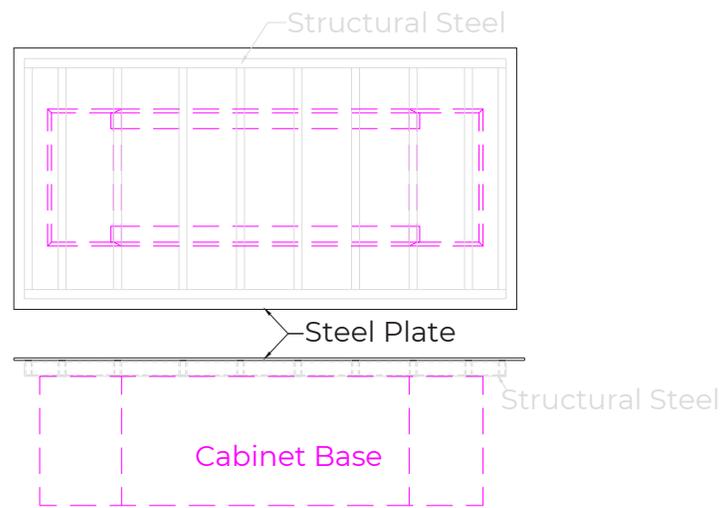


FIGURE 14

NOTE: Particle board is not considered a viable material to use as substrate.

NOTE: Use of substrate does not negate the need for proper vertical support, as detailed as follows.

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14. For Cambria countertops supported on four sides (including large cabinets such as a corner cabinet or lazy Suzan cabinet), if either the length is $>36"$ or the depth is $>24"$, additional front-to-back underside support is required, at minimum, every $36"$ in addition to the outside perimeter support. See Figure 15.

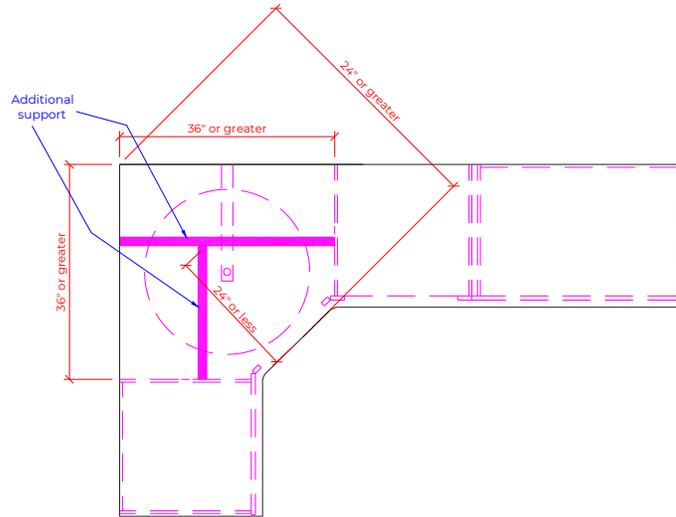


FIGURE 15

15. For Cambria countertops installed over openings for appliances (such as a dishwasher), vertical support is required on three sides. See Figure 16.

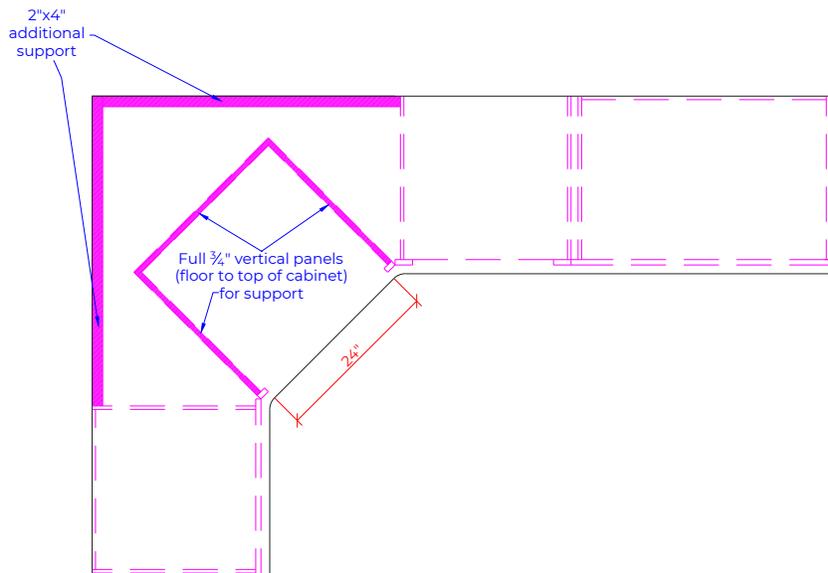


FIGURE 16

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16. For Cambria countertops with overhangs:

NOTE: If 1cm product is used in a horizontal application, a full $\frac{3}{4}$ " wood substrate is required to properly support the material. All 1cm horizontal applications with overhangs greater than 3" require a full $\frac{3}{4}$ " substrate and a tubular steel structure with cross member support every 15" on center. Structure must provide support without deflection.

- a. The maximum overhang of any countertop—including that with corbel support—is no more than $\frac{1}{3}$ of the depth of the countertop, excluding any seamed product. See Figure 17.

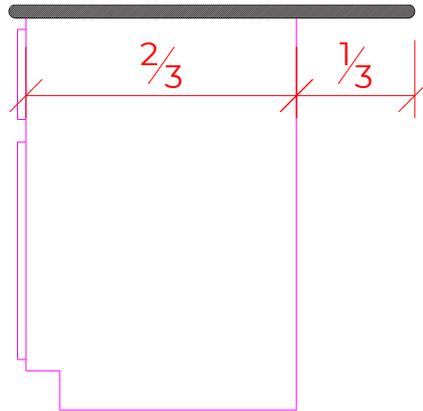


FIGURE 17

- b. Corbels must be mounted to studs or equivalent load-bearing structure.
- c. Any overhang that exceeds 12" for 2cm and 15" for 3cm requires use of corbels.
- d. Corbels must be installed so that they extend out a minimum of $\frac{3}{4}$ of the overhang distance and must be installed, evenly spaced, at a maximum of every 36". See Figure 18.

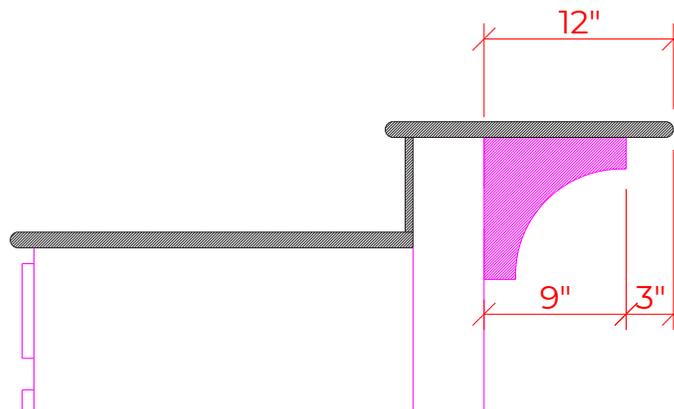


FIGURE 18

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- e. Any overhang that exceeds 18" for 2cm and 24" for 3cm requires use of substrate and evenly spaced leg posts, installed at a maximum of every 36". See Figure 19.

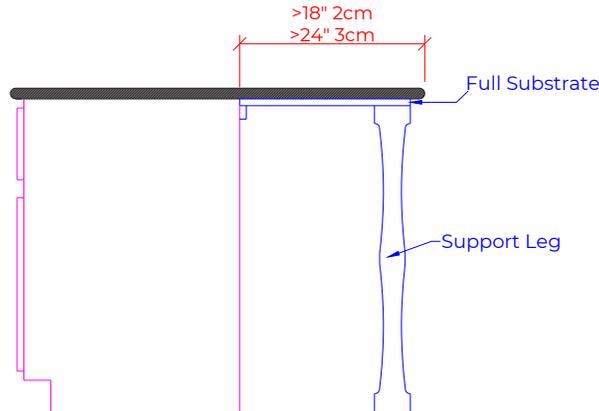


FIGURE 19

- 17. For Cambria inlays, full substrate in addition to the above requirements is required.
- 18. For tabletop applications (with a pedestal base), substrate must extend to within 2" from the perimeter of the tabletop. See Figure 20.

NOTE: The installers must consult with the table base manufacturer to confirm that the table base has been designed to support the specified size and weight of the Cambria top. This will ensure the assembled table is stable after installation.

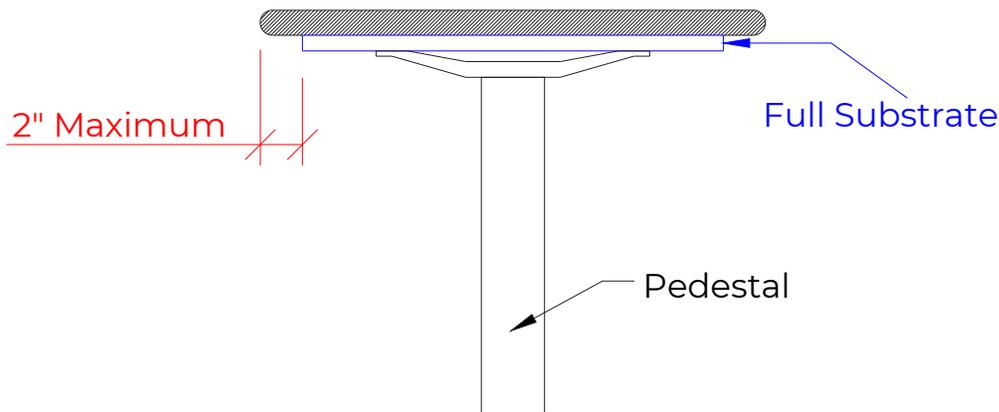


FIGURE 20

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CAMBRIA SEAM REQUIREMENTS

19. All field seams must be design-matched with seaming adhesive.
20. Field seams must be fully supported. In addition, any seam that extends into an overhang should be supported.
21. Seam width must not be larger than $\frac{1}{32}$ ". Seam height should not vary more than .0135". Both of these requirements are subject to level and straightness of cabinets, walls, etc.

FIREPLACE APPLICATIONS

NOTE: Specific information regarding fireplaces is located in SOP 9.3.8I Surface Burning Characteristics and Fireplace Applications.

UNDERCOUNTER OVEN APPLICATIONS

22. Undercounter recessed oven installation area must provide a complete enclosure around the recessed portion of the oven, per the manufacturer's installation requirements. See Figure 21.
 - a. A minimum distance of $1\frac{1}{2}$ " from the top of the cutout to the underside of the countertop is required.
 - i. Refer to oven manufacturer recommendations for proper enclosure material.

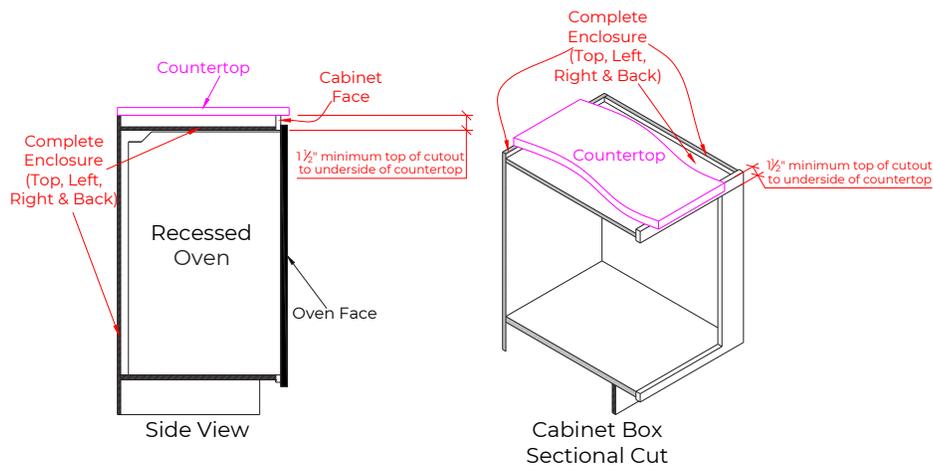


FIGURE 21

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INLAY REQUIREMENTS

23. When inlays are installed in a tabletop (non-countertop [see requirements above] and non-flooring) application, full substrate is required to support all pieces of the inlay. This ensures pieces stay together, providing sufficient support for its use as a tabletop.
- a. Substrate must be adhered to every piece of the inlay.
 - b. Substrate must extend to within 2" from the perimeter of the tabletop. See Figure 22.

NOTE: The installers must consult with the table base manufacturer to confirm that the table base has been designed to support the specified size and weight of the Cambria top. This will ensure the assembled table is stable after installation.

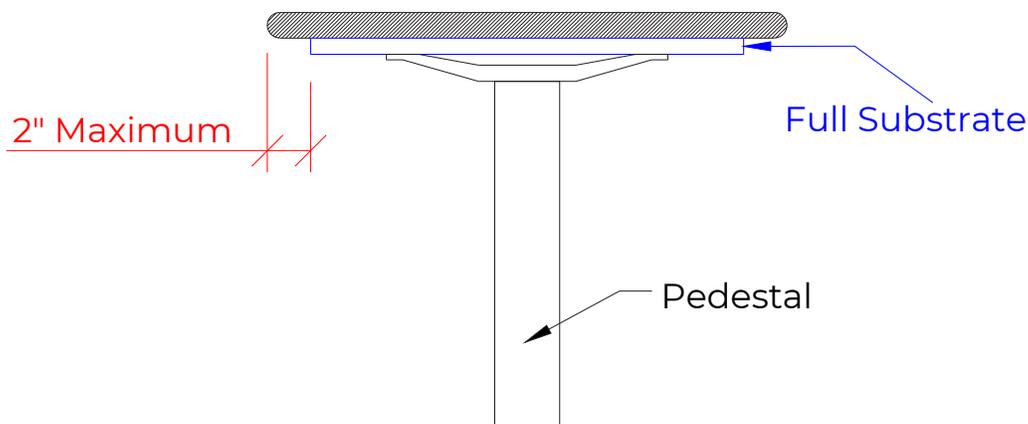


FIGURE 22

24. For installation of inlays in a vertical position, please refer to SOP 9.3.8A Installation Guidelines for Vertical Applications.

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