

Caesarstone Outdoor Technical Guide





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1. Introduction

Caesarstone introduces the Outdoor Collection. For the first time, Caesarstone has combined the best of all it has to offer by taking the luxury of its much-loved surfaces to the outdoors. Its ground-breaking Outdoor Collection provides the convenience of stain-resistant, easy-to-clean surfaces, while innovating a highly durable material proven to withstand UV rays and the most extreme environmental conditions over the long term. The new Outdoor Collection provides an answer for consumers' desire to cook, dine and entertain comfortably in an outdoor kitchen, come rain, snow or shine.

Caesarstone Outdoor performs the same as indoor Caesarstone in most aspects relating to fabrication, installation, repairs, and care & maintenance. Therefore, in most cases, the same procedures, tools and equipment can be used for both products.

There are, however, some minor differences, which are specified in this technical guide. Fabricators and installers should use these guidelines in addition to the Caesarstone *Fabrication & Installation* manual for optimum work with Caesarstone Outdoor.

Please note that Caesarstone Outdoor is not suitable for flooring and wall cladding.



2. Slab Data

2.1 Finishes

Caesarstone Outdoor is available in two finishes: Concrete and Honed.

2.2 Dimensions & Weight

Length	3040 mm (120") +/- 10 mm (³ / ₈ ")	
Width	1440 mm (56 1/2") +/- 10 mm (³ / ₈ ")	
Thickness	20 mm +/- 1 mm	
Weight	189-210 kg/slab 43-48 kg/m ²	417-463 lb 8-10 lb/ft ²

- **Note:** Imperial measurements in this guide are approximate.



2.3 Slab Label

- The Caesarstone Outdoor slab label has a blue border.
- The rest of the slab label is the same as for indoor Caesarstone.



3. Fabrication Guidelines Specific to Caesarstone Outdoor

Caesarstone Outdoor contains up to -90% crystalline silica. Fabrication of Caesarstone Outdoor generates respirable dust that is dangerous to your health. For more information about this danger and means of protection that you should implement please see the *Caesarstone Good Practice Guide - Steps to Avoid Health Hazards Related to Crystalline Silica Dust* at: mos.caesarstoneus.com.

- Caesarstone Outdoor slabs offer fabricators all the same advantages of easy fabrication as indoor Caesarstone. Due to the different composition, Caesarstone Outdoor slabs give off a smell during fabrication that is different from indoor Caesarstone; and it may be necessary to exert slightly more pressure when working manually.
- When cutting 45° miter edges, do not exceed a feed rate of 1 m (40") per minute.
- Set the RPM at 1600.

💡 Measuring can also be performed via laser, which is automatically converted by computer software into a work plan.

Note: Cutout guidelines are the same for Caesarstone Outdoor and indoor Caesarstone:

- The minimum recommended radius for cutout corners is 10 mm ($\frac{3}{8}$ "). The larger the radius, the stronger the corner.
- The minimum recommended distance between a cutout and an edge or seam is 60 mm ($2\frac{1}{2}$ ").



4. Installation Guidelines Specific to Caesarstone Outdoor

4.1 General

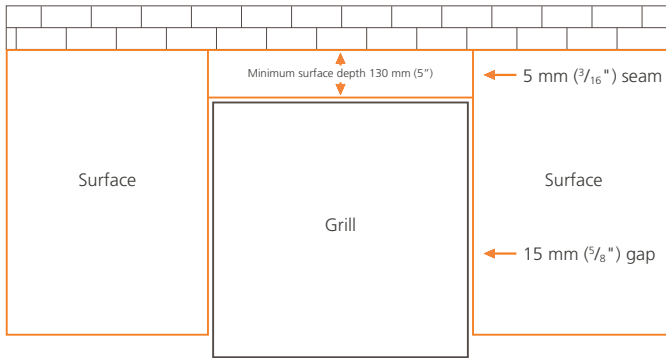
- Support Caesarstone Outdoor on a full substrate of concrete, brick or cement board. Do not use wood as it can swell in an outdoor environment.



4.2 Grill Installation Guidelines

- The grill should be supported by the kitchen structure or a dedicated frame, not by the Caesarstone Outdoor surface.
- Create seams for all inside corners.
- Create 5 mm ($\frac{3}{16}$ ") seams that follow the grill edges.
- Provide a minimum gap of 15 mm ($\frac{5}{8}$ ") between the grill and the edge of the cutout.
- Do not completely surround the grill with the surface - at least one side must be open.
- Ensure that the grill pane is located above the level of the Caesarstone Outdoor surface.

- If there is a wall behind the grill, the surface depth between the grill and the wall must be at least 130 mm (5").



5. Adhesives

- To seam Caesarstone Outdoor use 100% silicone suitable for outdoor use.
- To connect Caesarstone Outdoor to the substrate or to install as a backsplash use thinset (latex-modified thinset is preferred).
- To glue edges, use an adhesive suitable for outdoor use such as AKEMI® Everclear 225 or AKEMI® Hyperclear.
- Alcohol is recommended for cleaning during installation. Use of acetone is forbidden on Caesarstone Outdoor.

Note: Before using, please read and follow the adhesive manufacturers' instructions. Pay attention to the guidelines regarding weather and temperature conditions at the time of application.

5.1 Gluing Edges

To create edges thicker than the slab thickness, use one of the following methods:

- Create 45° miter edges.
- Glue a strip of 20 mm (3/4") thickness and at least 70 mm (2 3/4") depth underneath the surface as shown below:



6. Care & Maintenance

Care & maintenance, and stain removal for Caesarstone Outdoor is similar to indoor Caesarstone. However, please take note of, and practice the following to keep your Caesarstone Outdoor looking its best:

- Cover the surface when not in use.
- Do not leave metal objects on the surface as they may cause rust stains.
- Do not use deep fat fryers and turkey fryers on the surface.
- Clean any stains or residue as soon as possible to prevent them from drying on the surface.
- Use of acetone is forbidden on Caesarstone Outdoor.

Cleaning Agents to Avoid

It's important to be aware that like any other surface, Caesarstone can be permanently damaged if exposed to strong chemicals and solvents that can damage its physical properties. Never clean your Caesarstone surface with products that contain Trichlorethane or Methylene chloride, such as paint removers and thinners. Caesarstone outdoor surfaces that have been cleaned or exposed to Acetone, Methylates Spirits or Lacquer thinners will automatically be void of warranty. Alcohol may only be used briefly as a cleaning agent by a professional installer during installation. Avoid the use of highly aggressive cleaning agents such as oven/grill cleaners and dishwasher polishing agents that have high alkaline/ pH levels (pH 8.5 or higher). Products containing oils or powders may leave a residue and should be rinsed off thoroughly. Should your surface accidentally be exposed to any of these damaging products, rinse immediately with clean water to neutralize the effect.

7. Standards & Certificates



ILGBC



USGBC



GREENGUARD GOLD



GREENGUARD



NSF



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018
OHSAS 18001:2007



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8. Technical Data

PROPERTY	RESULTS
Flexural Strength ¹	>55 MPa
Freeze-thaw Resistance ²	No obvious damage after 150 freeze-thaw cycles
Bulk Density ³	>2.1 gr/cm ³
Water Absorption ³	<0.6% (per 10 days absorption)
Impact Resistance	>9 J
Stain Resistance ⁴	Pass
Chemical Resistance ⁵	Pass
Thermal Conductivity	0.76 W/(m·K)
Thermal Shock	No obvious change Change in mass: -0.01% to 0.04% Change in flexural strength: -2.7% to 7%
Boiling Water Resistance ⁶	No effect
UV Resistance	Color change of up to 4 delta E units may occur in a period of 5 years of external use ⁷
Surface Burning ⁸	Class A

1. based on ASTM C880/C880M-15

2. based on ASTM C1026-10

3. based on ASTM C97/C97M-15

4. based on IAPMO z124 5.11

5. based on IAPMO z124 5.15

6. based on ANSI NEMA LD3-3.5

7. estimated value

8. based on ASTM E84-19

