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Technical Data Manual



Aerial View of Caesarstone Factory
Kibbutz Sdot Yam, Israel
Adjacent to the ancient Roman city of Caesarea

Product Description



5111 Statuario Nuvo
DLUX Design & Co

Caesarstone is the original engineered quartz surface. Use it as an attractive, versatile and distinctive finish for residential, commercial and institutional buildings. Caesarstone quartz is tough enough to withstand wear and tear on just about any interior surface, and beautiful enough for every design scheme.

Caesarstone quartz outperforms natural stone. It has more flexural strength and impact resistance than granite while impressively outperforming marble. Caesarstone quartz also provides greater consistency than ordinary stone that is veined and prone to flaws.

Because of Caesarstone quartz's superior strength and durability, you may be able to use thinner materials to save weight, or larger pieces to reduce the number of joints. Either way, you save money with a simplified fabrication and installation process. Furthermore, Caesarstone quartz is virtually maintenance free. Its quartz aggregate makes it harder and more scratch resistant than either granite or marble, and its high-quality polymer binders make it non-porous and highly resistant to stains.

Use Caesarstone quartz for:

- Countertops and backsplashes
- Shower and tub surrounds
- Lavatory and sinks
- Interior wall cladding
- Table and desktops
- Wainscots and wall bases
- Toilet compartment partitions
- Elevator cab walls
- Service counters



4033 Rugged Concrete
Poké Me

Caesarstone quartz keeps its good looks without sealants or waxes and meets the stringent sanitation requirements of restaurants, hospitals and schools.

Composition: Caesarstone surfaces are up to 93% crushed quartz (silicon dioxide – SiO₂), one of nature’s hardest minerals. Quartz is combined with high-quality polyester resins and pigments, and then compacted under intense vibration, vacuum and pressure into dense, non-porous slabs. The slabs are gauged to precise thickness, and polished to an enduring shine or attractive honed finish. After passing inspection, the back of each Caesarstone slab is imprinted with a zigzag trademark to simplify jobsite identification.

Finishes: Caesarstone offers 4 distinctive surface finishes that offer added character beyond the color offering. Caesarstone can be finished on two faces by special order, requiring a minimum order quantity and additional lead-time.

Colors and Styles: Caesarstone offers the widest spectrum of design options in the quartz surface industry. Our styles range from fine-grained salt-and-pepper patterns to coarse-grained color blends with a variegated visual texture. The marble-inspired surface designs highlight the exquisite appearance of natural stone by showcasing bold colors and intricate veins. See our website or contact Caesarstone for color brochures and samples.

Caesarstone Quartz Performance

- Beautiful and durable
- Strong, yet flexible
- Scratch resistant
- Highly stain resistant
- Resistant to many chemicals, acids and solvents
- Non-porous and prevents mold, mildew and bacteria
- Heat resistant

Slab Dimensions

Standard Size

120" (144cm) x 56 1/2" (305cm)

Standard Size Weight

1.3cm	315 lbs (143kg)
2cm	485 lbs (220kg)
3cm	728 lbs (330kg)

Jumbo Slab* Size

131 1/2" (334cm) x 64 1/2" (163cm)

Jumbo Slab* Weight

2cm	572 lbs (259kg)
3cm	852 lbs (386kg)

THICKNESS:

1.3cm 1/2"

2cm 3/4"

3cm 1 1/4"



*Available for select colors



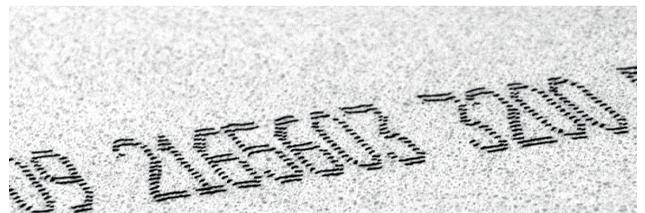
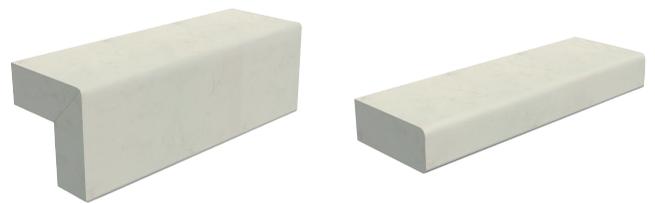
1141 Pure White
Fonté Coffee Roaster Café
Seattle, WA

Edge Profiles: The unique edge properties and durability of Caesarstone quartz surfaces allow for a wide range of edge profile design options. Many edge profiles are possible, from a standard edge to laminated or mitered edges which create the appearance of a thicker slab. All edge details should have **minimum 1/8" radius** on any profile, for both top and bottom edges. **For high-traffic areas, 1/4" minimum radius is suggested.**

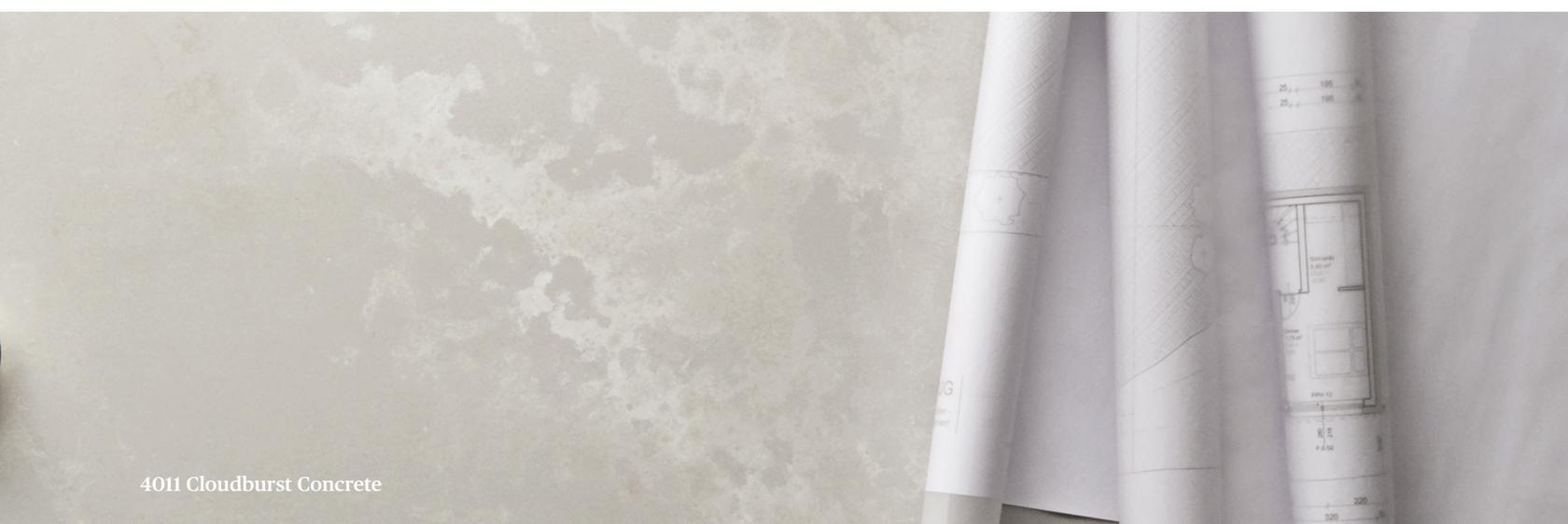
Caesarstone quartz surfaces and countertops can be fabricated with a variety of different edge options such as: double radius, bevel, double bullnose, miter edge, radius, ogee bullnose and triple ogee.

Caesarstone Slab ID: The underside of every Caesarstone slab is uniquely stamped with identification information establishing authenticity. Beware of imitation slabs.

Miter Edge
Minimum Radius: 1/8"



Finishes



4011 Cloudburst Concrete

Polished has an elegant and highly reflective surface that is smooth to the touch. Caesarstone's Polished finish emphasizes color and sets the tone for sophisticated spaces with its stunning luster. The sleek surface helps a room appear more spacious, adds luxury to interiors and boasts remarkable style and endurance. Our standard finish is designed for life, requiring minimal care and maintenance. Polished surfaces have a silk gloss finish with a ratio of 28-55% at 50°.

Concrete* has a matte, textured finish which introduces an industrial aged feel to the surface. This unique finish never requires sealing and is designed to acquire a natural patina over time, which adds to the character of the surface, yet remains easy to clean and maintain. Concrete surfaces have a matte finish with a gloss ratio of 4-8% at 50°.

Honed* has a matte finish with the look and feel of natural stone, requiring more maintenance yet no sealants. Caesarstone's Honed finish emits an organic appearance with its low light reflection, while retaining a stylish, authentic quality with high design appeal. Smooth to the touch, yet soft on the eye, our Honed finish is in perfect harmony with both classic and modern design approaches. Due to the nature of the surface design, additional care and maintenance will be required. Honed surfaces have a matte finish with a gloss ratio of 4-8% at 50°.

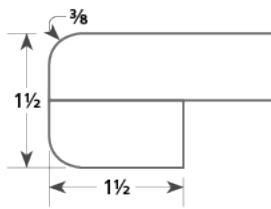
Rough* has the authentic look of a hand poured concrete surface and blends well with neutral palettes that soften its raw industrial edge. Its low reflective matte surface finish is more susceptible to showing everyday marks and spills, meaning more regular cleaning may be required. Rough Concrete surfaces have a matte finish with a gloss ratio of 0-4% at 50°.

***Available for select colors**

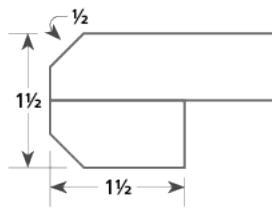
Edge Details



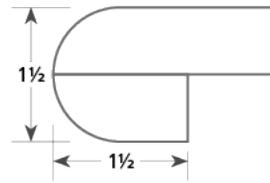
2003 Concrete



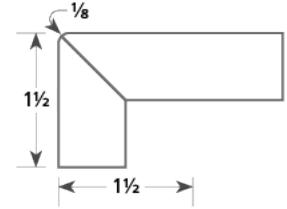
Double Radius



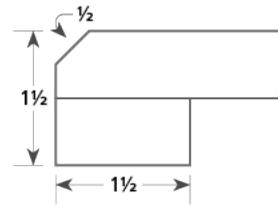
Bevel



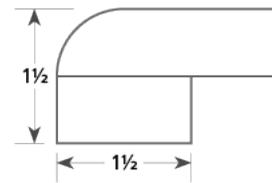
Double Bullnose



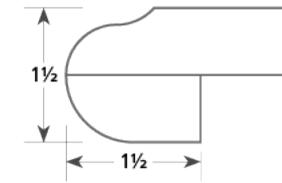
Miter Edge



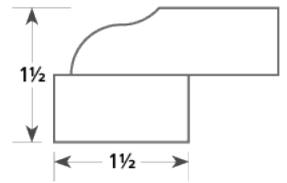
Bevel Square



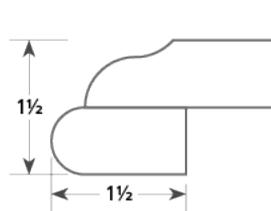
Radius



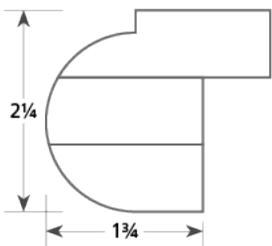
Ogee Bullnose



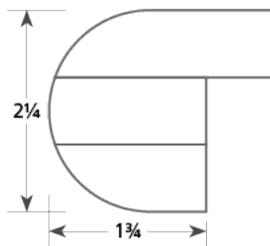
Ogee Square Step



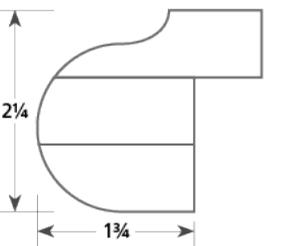
Ogee Bullnose Step



Triple Egg



Triple Bullnose



Triple Ogee



Maintenance



5131 Calacatta Nuvo

Polished Finishes: Its hard, nonporous, polished surface makes Caesarstone quartz simple to clean. In most cases, soap and water or a mild detergent is all that is required to maintain its luster. If required, adhered materials like food, gum and nail polish can be scraped away with a plastic putty knife; marks left by the putty knife can be removed with Soft Scrub® Liquid Gel with Bleach. Squeeze a small amount on a soft damp cloth and wipe the surface, then rinse thoroughly with clean water to remove residue.

Honed, Concrete & Rough Finishes: Please understand that Honed, Concrete and Rough Concrete finishes will require more daily maintenance than our Polished finishes. Since there is more exposed surface area with these finishes, metal marks, fingerprints and other signs of daily living will show on these materials. Most of these marks can be easily removed with little effort and cleaning products such as Soft Scrub® Liquid Gel with Bleach. Squeeze a small amount on a soft damp cloth and wipe the surface, then rinse thoroughly with clean water to remove residue.

Find Out More

For further information about Caesarstone's quartz surfaces, please visit our website at www.caesarstoneus.com.

*Some models require scrubbing to remove stains.

Maintenance (Cont.)



4033 Rugged Concrete

What is Patina?

Patina is a thin layer that variously forms on the surface of stone over 6 months of use. Patina can provide a protective covering to materials that would otherwise be damaged by corrosion or weathering. They may also be aesthetically pleasing. Caesarstone surfaces are designed to acquire a natural patina which adds to the character of the surface, yet remains easy to clean and maintain. It is not a blemish or stain.

Guidelines

- Counters are not sold with patina. Natural patina can take around 6 months to form using regular mild cleaners, soap and water, Windex, etc.
- Patina forms on all quartz products unless bleach based cleaner is used regularly
- All colors become slightly darker and shinier
- **No sealer of any kind** should ever be used
- May be called something different but still acts like a sealer
- Sealer leaves a topical film that makes cleaning even harder over time



5111 Statuario Nuvo
EOS Rejuvenation
Beverly Hills, CA

Caesarstone surfaces are recommended for interior use.

Chemicals: Avoid contact with products containing trichloroethane or methylene chloride (such as paint removers or strippers), abrasives, alkaline levels with a pH greater than 8, hydrofluoric acid, liquid bluing, gentian violet and aggressive cleaning compounds like oven or grill cleaners.

Acids: Caesarstone quartz is not affected by solutions of common acids including hydrochloric, muriatic and sulfuric acids. In concentrated solutions, after exposures of 24 hours, some acids such as nitric acid will discolor the surface, though they will not compromise the strength of the material. Hydrofluoric acid spills should be cleaned immediately because it will react with quartz. In the event of accidental exposure to these products, thoroughly rinse the surface with clean water as soon as possible; take care to protect skin and eyes.

Bases: Sodium hydroxide and potassium hydroxide in 10% or higher concentrations will etch Caesarstone surfaces; spills should be cleaned immediately. In household concentrations, such as those found in home drain cleaners, sodium and potassium hydroxide have no effect on the surface though we recommend cleaning all spills as soon as possible.

Staining Agents: Caesarstone quartz resists common laboratory staining agents. It is not permanently stained by povidone-iodine (Betadine), potassium permanganate or tincture of iodine. Residual stains of Betadine or iodine on light-colored surfaces cleans off with chlorine bleach. Black and dark colors of Caesarstone quartz show no stain from these agents. Some colors of Caesarstone quartz can be stained by prolonged contact with solutions of gentian violet, blue ink and some lipsticks.

Solvents: Caesarstone quartz resists a wide range of commercial and industrial solvents. Household cleaners and industrial strength solutions of methyl ethyl ketone (MEK) have no effect on Caesarstone surfaces. Solvents that can be safely used in pure concentrations only on the surface include:

- Acetone
- Mineral Spirits
- Methylene Chloride
- Lacquer Thinner
- Isopropyl Alcohol
- Trichloroethane

Intense Heat: Caesarstone quartz tolerates brief exposures to moderately hot temperatures. **Trivets or hot pads should always be used.**

Environmental Commitment

5220 Dreamy Marfil

Sustainable Standards and Certifications



ISO 14001 and 9001 Certification: Caesarstone is the first quartz surfacing company to receive ISO 14001 and 9001 Environmental Management Systems certification. This international standard provides a procedural framework to create policies and solutions that will assist Caesarstone in reaching environmental targets.

GREENGUARD Indoor Air Quality and GREENGUARD Gold Children and Schools: Certifies Caesarstone quartz as low-VOC (volatile organic compound) product complying with California's Department of Health Services Standard Practice (CA Section 01350) for chemical emissions from building products used in schools, offices and other sensitive environments.

OHSAS 18001 Certification: Certifies Caesarstone as compliant with Occupational Health and Safety Management System specifications – taking a proactive approach to its occupational health and safety risks.

USGBC: Caesarstone quartz ranks high with the United States Green Building Council, crediting entrepreneurs and contractors using our materials with LEED points – making Caesarstone the natural partner in advanced projects, built according to green construction practices.

ANSI/NSF Standard 51 – Food Equipment Materials: Caesarstone quartz is safe for use in food preparation areas and is easy to clean and sanitize.

Sustainable Composition of Product

- Up to 93% quartz, an abundant natural resource and by-product from mining other minerals.
- Low volatile organic compound (VOC) emissions, contributing to indoor air quality.
- Less toxic than wood, according to UPITT standard in New York City building code.
- Continually developing recycled colors to add to our product line.

* Environmental Data is organized in accordance with GreenFormat, a format being developed by the Construction Specifications Institute for information about building product sustainability.



Health Product Declaration: The Health Product Declaration provides a full disclosure of the potential chemicals of concern in products by comparing product ingredients to a set of priority “hazard” lists based on the GreenScreen for Safer Chemicals and additional lists from other government agencies.

Caesarstone has recently updated its HPD to align with the new HPD v2.1 standard, and created 2 HPDs:
The Health Product Declaration® for Caesarstone quartz surfaces for models that do not include recycled material
The Health Product Declaration® for Caesarstone quartz surfaces for models that include recycled material (glass/mirror)
Each declaration contains the precise list of models it covers.

Caesarstone Surfaces by Caesarstone	Health Product Declaration v2.1 <small>created via: HPDC Online Builder</small>
CLASSIFICATION: 12 36 61.19 Quartz Agglomerated Countertops	
PRODUCT DESCRIPTION: Quartz Surfaces used as counter-tops produced by Caesarstone. This HPD covers the following models: 1111 2003 2030 2040 2220 2230 2260 3047 3200 3350 4011 4030 4044 4046 4120 4130 4141 4220 4230 4255 4330 4350 4360 4600 4601 4643 5000 5003 5031 5043 5100 5104 5110 5111 5130 5131 5134 5141 5143 5211 5212 5220 5380 6134 6684 9241 9260 *7150	

Caesarstone surfaces with recycled glass / mirror by Caesarstone	Health Product Declaration v2.1 <small>created via: HPDC Online Builder</small>
CLASSIFICATION: 12 36 61.19 Quartz Agglomerated Countertops	
PRODUCT DESCRIPTION: Quartz surfaces used as counter-tops produced by Caesarstone. This HPD covers the following models: 2023 2024 4001 4003 4004 4033 5133 6003 6046 6131 6250 6270 6313 6338 6350 6607 6611 6616 6634	



5000 London Grey
Amaroso Place
Venice, CA



1141 Pure White
BRW Architects
Dallas, TX

Leed v4



Caesarstone is committed to resource efficiency in the production process, including raw material management, energy savings, water recycling, recycled packaging and efficient use of auxiliary materials.

Caesarstone has developed a contribution document for LEED v4 projects to enable designers and architects to understand the value of using Caesarstone quartz surfaces in LEED projects.

LEED® for New Construction

Category	Point Value	Intent	Requirement	Strategy
LEED-NC Environmental Quality EQ 4.1	1 Point	Reduced the quantity of indoor contaminants that are odorous, irritating and or harmful to the comfort and well being of installers and occupants	All adhesives and sealants must meet SCAQMD Rule #1168	Specify Low VOC materials in construction documents. Ensure that VOC limits are clearly stated in each section.
LEED-CI Materials & Resources MR 4	1-2 Points	Use recycled materials	10-20% of materials incorporate recycled content	Establish a recycled products goal. Ensure materials get installed.

***MR4 only for 3100 Jet Black or 7141 Quartz Reflection**

LEED® for Commercial Interiors

Category	Point Value	Intent	Requirement	Strategy
LEED-CI Environmental Quality EQ 4.1	1 Point	Reduce the quantity of indoor air contaminants	All adhesives to meet SCAQMD Rule #1168	Specify Low VOC materials in construction documents.
LEED-CI Materials & Resources MR 4	1-2 Points	Use recycled materials	10-20% of materials incorporate recycled content	Establish a recycled products goal. Ensure materials get installed.

***MR4 only for 3100 Jet Black or 7141 Quartz Reflection**

10% = 1 point
20% = 2 points

Construction & Demolition Waste Management (1-2 Points)

OPTION 1, Diversion.

Divert at least 50% of the total construction and demolition material and include at least three materials streams (1 pt) or 75% of the total construction and demolition material and include at least four materials streams (2 pts). Caesarstone products are 100% recyclable into concrete or terrazzo.

OPTION 2, Reduction of Total Waste Material.

Do not generate more than 2.5 pounds of construction waste per square foot (12.2 kilograms of waste per square meter) of the building's floor area. Caesarstone slabs arrive pre-cut to size at the site, eliminating generation of onsite material waste.

Notes:

Option 1 of this credit rewards the project for diverting waste from the landfill. Total diversion rates of 50% or more (into at least three material streams) earn 1 point; Total diversion rates of 75% or more (into at least four material streams) earns 2 points.

- The concept of individual waste streams is new to LEED v4.
- An easy way to categorize your streams is to focus on the heaviest waste or the waste that generates the most volume, making steel a viable candidate for an individual waste stream. As a best practice, a material stream should constitute at least 5% by weight or volume of total diverted materials.

Option 2 of this credit rewards the project for reduction of total waste material (2 points). To meet the requirement, there can be no more than 2.5 pounds of construction waste per square foot of the building's floor area.

- Option 2 requires teams plan for not generating waste in the first place. To get the most benefit, this option requires teams to plan for source reduction during design and implement it during construction.
- Prefabrication, modular construction or incorporating standard material lengths or sizes into the project's design can all help reduce waste for this path to the credit.

SCS Certified Products



5141 Frosty Carrina

After a rigorous assessment, the Scientific Certification Systems (SCS) has approved Caesarstone's Environment First collection as SCS Recycled Content Certified.

As a global leader in independent certification and verification of environmental and sustainable stewardship, SCS has developed internationally recognized standards and certification programs in pursuit of the highest level of environmental performance and social accountability.



PRE-CONSUMER



Jet Black

42% Pre-consumer Recycled Content



Quartz Reflections

25% Pre-consumer Recycled Content

A photograph of two frosted glass tumblers on a white surface. The tumbler in the foreground is shorter and wider, while the one behind it is taller and narrower. Both are filled with a light-colored liquid. The background is a plain, light-colored wall.

1141 Pure White

Product Usage

Manufacturing: 97% of water used during manufacturing is reclaimed using filtration and recycling systems. Regenerative thermal oxidizers remove particulate matter from the atmosphere, reducing air pollution and ensuring a safer work environment.

Recommended Cleaning & Maintenance: Caesarstone quartz is a very low-maintenance material. Unlike natural stone, it does not require sealing for stain resistance and its good looks can be maintained by simply using soap and water. This improves indoor-air quality and the environmental impact of sealer and cleaning chemicals.

Product Lifespan: Caesarstone quartz surfaces are very durable. A limited lifetime warranty is available.

Product Reuse: The high strength of Caesarstone quartz surfaces can make it possible to remove countertops and other installations without excessive breakage. The durability of the material then makes it possible to reuse Caesarstone quartz in another location.

Regional Fabrication: Countertops and other Caesarstone applications can be fabricated by a fabricator located close to the building site.

Commercial Food Service Installation



Webb Foodservice Design
UC San Diego, 64 Degrees
San Diego, CA

Caesarstone quartz surfaces can be used in a variety of commercial food service installations, including those that incorporate heating and cooling equipment. Provide adequate structural support for both the quartz and any other compressive loads and design the installation to minimize thermal and mechanical stress.

For a complete technical support and guidance for the fabrication and installation of food service counters, please reference the Commercial Food Service Installation Guide.



4350 Lagos Blue
CSU Fullerton
Webb Foodservice Design

Technical Data

Test Performed	Test Standard	Results
Physical Properties		
Water Absorption	ATSM C97°	<0.05%
Density	ATSM C97° EN 14617-1°	2.2-2.4 gr/cm ³ 2.2-2.4 gr/cm ³
Flexural Strength	ATSM C880 EN 14617-2°	6,500-10,770 psi; 44.8-74.3 MPa 57.6-70 MPa
Dimension Stability	EN 14617-12°	Class A
Electrical Stability	EN 14617-13°	Volume resistance (R _v) = 0.92 x 10 ¹⁴ Ω Volume resistivity (ρ _v) = 4.88 x 10 ¹⁴ Ωm
Durability		
Impact Resistance	ATSM D1709° EN 14617-9°	26.3 lbs (117N) 4,000 - 10,000 (J)
Compressive Strength	ATSM C170° EN 14617-15°	21,312 - 27.133 psi 178.3-210.6 MPa
Abrasion	ASTM C501° ASTM C1243 EN 14617-4°	216-696 Volume of chord: V=132-244 mm ³ Groove length= 21.8 mm or V=86 mm ³
Freeze-Thaw Resistance	ATSM C1026° EN 14617-5°	No defects after 15 freeze-thaw cycles No defects after 25 freeze-thaw cycles
Mohs Hardness Scale		6.5-7
Stain, Chemical Resistance and Cleanability		
Stain Resistance**	ANSI Z124.6	Pass
Water and Cleanability	ANSI Z124.6	Pass
Chemical Resistance	ANSI Z124.6 EN 14617-10°	Pass Class C ₄



5031 Statuario Maximus
Nichols Booth, 417 Sansome
San Francisco, CA

Technical Data (cont.)

Test Performed	Test Standard	Results
Thermal Properties		
Linear Thermal Expansion	ATSM D696 EN 14617-11°	-30 to +30°C: 1.3-1.9 x 10 ⁻⁵ cm/cm/°C -30 to +30°C: 2.1x 10 ⁻⁵ (°C ⁻¹); -30 to +60°C: 2.7x 10 ⁻⁵ (°C ⁻¹)
Thermal Conductivity	EN12664/ISO 8301°	1.75 W/m. /°K (mean T of 10°C)
Thermal Shock	EN 14617-6°	No visual defects after 10 cycles Loss in mass= 0.02%-0.05% Loss in flexural strength = 0.7%-1.1%
Boiling Water Resistance	NEMA LDF3-3.5	Pass
High Temperature Resistance	NEMA LD3-3.6	Pass
Safety		
Cigarette Test	ANSI Z124.6	Pass
Surface Burning	ATSM C170°	Class 1 and Class A
Fire Classification	EN 13501-1°	Wall cladding: B-s1-d0 Flooring and stairs: B-fl-s1
Static Coefficient of Friction	ATSM C1028°	As received — Dry: 0.8; Wet: 0.6 As renovated — Dry: 0.9; Wet: 0.6
Slip Resistance	DIN 51130° DIN 51097° EN 14231° AS/NZS 4586°	Oil wet ramp: R9-10 Wet barefoot ramp: C Wet: 12-21 SRV; Dry: 43-53 SRV Four S rubber pendulum: 25-30 BPN Wet barefoot ramp: B Oil wet ramp: R10
Radiation	ANSI/N 42.14	²²⁶ Ra = 1.4-6.8 ²³² Th = 1.4-3 ⁴⁰ K = <3-30.3 (Bq/kg dry weight)

Test Performed	Test Standard	Results	Remarks
Certifications and Approvals			
ISO 14001	Environmental Management Systems	Certified by IQNet	Certificate #: IL-44679
ISO 9001	Quality Systems - Model for Quality Assurance in Production, Installation, and Servicing	Certified by IQNet	Certificate #: IL-29318
OHSAS 18001	Health and Safety Systems	Certified by IQNet	Certificate #: IL-43226
Kosher		Certified by Rabbi Yisrael Rozen, the Zomet Institute	Certificate #: 58-003-523-6
Greenguard & Greenguard Gold	Certified for "Indoor Air Quality" and "Children and Schools"		Caesarstone is a low-emitting material
Scientific Certification System (SCS)	Recycled Content	Certified by SCS	Certificate # 5464-410 & 5464-420
New York City Materials and Equipment Acceptance (MEA)		Approved by the City of New York	MEA 202-08-M
ANSI/NSF Standard 51	Food Equipment Materials	Listed by NSF	Safe to use in food preparation areas

Fabrication & Installation



2141 Blizzard
Allsteel Showroom
New York, NY

General: Caesarstone quartz can be fabricated and installed in much the same manner as natural stone. A Caesarstone **Fabrication and Installation Manual** is available upon request. Standard industry references can also be consulted: The Marble Institute of America's **Dimension Stone Design Manual** provides reliable information for many types of interior stone construction, and the Tile Council of America's **Handbook for Ceramic Tile Installation** has recommendations for stone tile installation.

Shipping, Storage and Handling: Handle Caesarstone quartz with care to avoid breakage or damage. Transport and store in racks in the near-vertical position to prevent warping. Keep finished face toward finished face, and protect against rubbing. Store inside, away from direct exposure to sun, and between 25° and 130°F (–4° and 54°C).



5000 London Grey
Brook Spreckman of Hutch Design
Tender Greens, Los Angeles, CA



4004 Raw Concrete
OFFICIAL DESIGN
Houndstooth Coffee, Dallas, TX

Fabrication:

Use of a Certified Caesarstone Fabricator is required. Observe the following guidelines:

- Cut and polish Caesarstone quartz with water-cooled power tools.
- Lay out materials to minimize joints and to avoid L-shaped pieces.
- Verify field measurements and inspect material for defects prior to fabrication.
- Inside corners should have 3/8 inch (10mm) minimum radii to reduce potential for crack propagation.
- Substrates supporting quartz surfaces should be plumb, level and flat to within 1/16 inch in 10 feet (1.6mm in 3048mm).
- Supports and blocks should be securely installed.
- Provide fabricator with accurate templates showing cutouts required for installation of items installed on or penetrating through Caesarstone quartz.





1141 Pure White
Mercer Kitchen

Installation: A trial installation is recommended to ensure that fabricated components fit accurately and to make necessary adjustments. Allow gaps for expansion of not less than 1/8 inch per 5 feet (1.6mm per 1.5m) when Caesarstone quartz is installed between walls or other fixed conditions. Clean surfaces to receive adhesives and apply adhesives as described below. Set Caesarstone quartz gently into position. In many conditions of use, Caesarstone quartz should be adequately secured with 100% clear silicone adhesive only.

Adjacent pieces of Caesarstone quartz should be tight fitting, level and neat. Cement adjacent pieces together with high quality polyester or epoxy stone adhesives. Use products that are recommended by their manufacturers for conditions of use. Follow stone adhesive manufacturer's instructions. Stone adhesive should be tinted to match or complement the Caesarstone quartz's color.

Fill joints and clamp or brace Caesarstone quartz in position until stone adhesive sets. Seal joints between backsplashes and countertops and around tub and shower enclosures with high quality 100% silicone.

Caesarstone recommends the use of adhesives, sealants and solvents that are compatible with sustainable construction practices.

Precautions: Observe good stone working and safety practices at all times and comply with applicable building codes and regulations. While rigorous quality control is maintained in the manufacturing of Caesarstone quartz, minor variations in appearance and aggregate distribution can occur. Adjacent pieces should be from the same batch and inspected for visual compatibility before fabrication.

Installation Over Countertops: Caesarstone quartz must be supported on a strong perimeter frame or on a full deck support of plywood that will keep it flat within 1/16" (1.6mm) per 18" (3000mm) and support the countertop weight for the useful life of the top.

Supports for Overhang: As a general guideline, support is required for overhangs of Caesarstone quartz. The following guidelines are for standard cabinets 24" in depth.

- Front-to-back support within the cabinet should be provided every 24". Plan for front-to-back support strips 2.5"-wide (40mm–100mm) to coincide with cutouts and periodic support. Support must be provided under all countertop joints.
- The use of 3/4" material requires the use of a minimum 3/8" thick plywood sub top if the edge detail is 1 1/4" or greater. Some types of cabinets may require the use of 3/4" plywood for European-style frames and supports.
- Leave 1/8" (3mm) minimum clearance between the plywood and built-up edges.

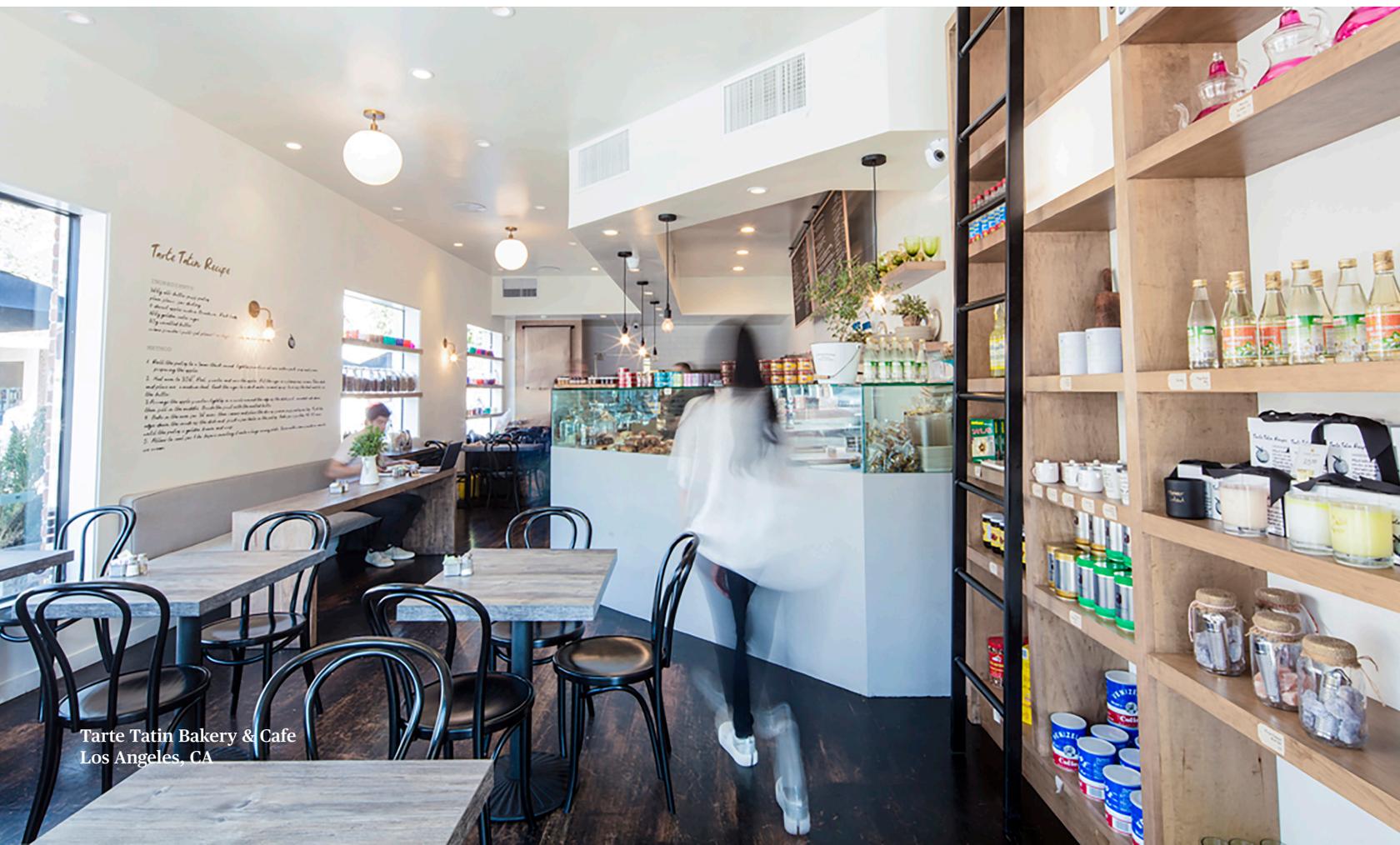
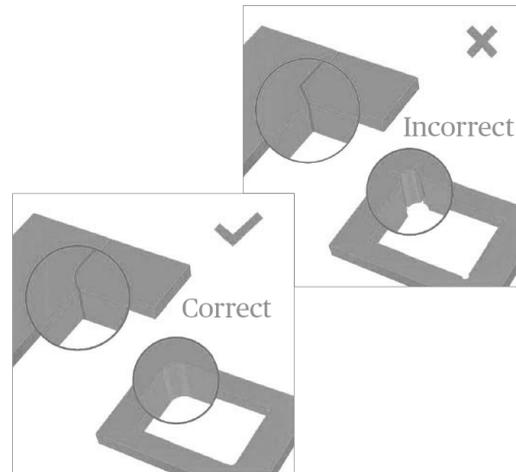
Depth of Overhang			
2CM (3/4")	2CM (3/4") with 5/8" sub top	3CM (1 1/4")	RECOMMENDED SUPPORT
<8" (200mm)	<12" (300mm)	<16" (40mm)	No additional support required
8-16" (200-400mm)	<12-20" (300mm-500mm)	16-24" (400-600mm)	Brackets required at 24" (600mm) intervals
>16" (400mm)	>20" (500mm)	>24" (600mm)	Legs, columns or panels required at 24" (600mm) intervals

Sinks:

Under mount sinks can be shop or field mounted. No reinforcement rods are required, though sink cutouts should be within 3" of gable support. Cast iron or heavy sinks must be supported independently from the quartz surface.

Key Fabrication Points:

- Radius of all inside corners are a minimum of 3/8"
- Ensure seams are level and smooth to touch
- Seams can be tighter than granite or marble
- Seams are permitted at corners



Wall Cladding*:

Caesarstone quartz surfaces can be cut into any size and shape required, enabling versatility in fabrication and design. When using quartz as wall cladding, you must use a beveled edge. For information about installation, please reference the Floor & Wall Cladding Guide.

13mm thick Caesarstone quartz slabs are ideal for wet areas like bathrooms, shower walls and wet bars due to the non-porous nature of the material. Our seamless quartz slabs prevent mold and mildew buildup and eliminate the need for grout and its irritating cleanup.



5031 Statuario Maximus
SF Showcase

* Caesarstone does not provide warranty on fabrication and installation.
Caesarstone is only responsible for proven manufacturing defects in products.

Availability



1141 Pure White
Mercer Kitchen

Stocked colors and textures are inventoried in convenient locations throughout North America. Caesarstone is also available internationally.

Costs: Caesarstone quartz is priced below the cost of many natural stones. Additional savings result from Caesarstone quartz's strength that can simplify fabrication, reduce breakage and allow for the use of thinner materials. Its durability and low maintenance requirements provide further lifecycle economies. Current pricing is available by contacting a Caesarstone consultant or by calling 877.9QUARTZ.



Lowe's Hotel
New York, NY



Mercedes House
New York City



566 Carroll Street Townhouse
Brooklyn, NY



Two Trees 60 Water St
New York City

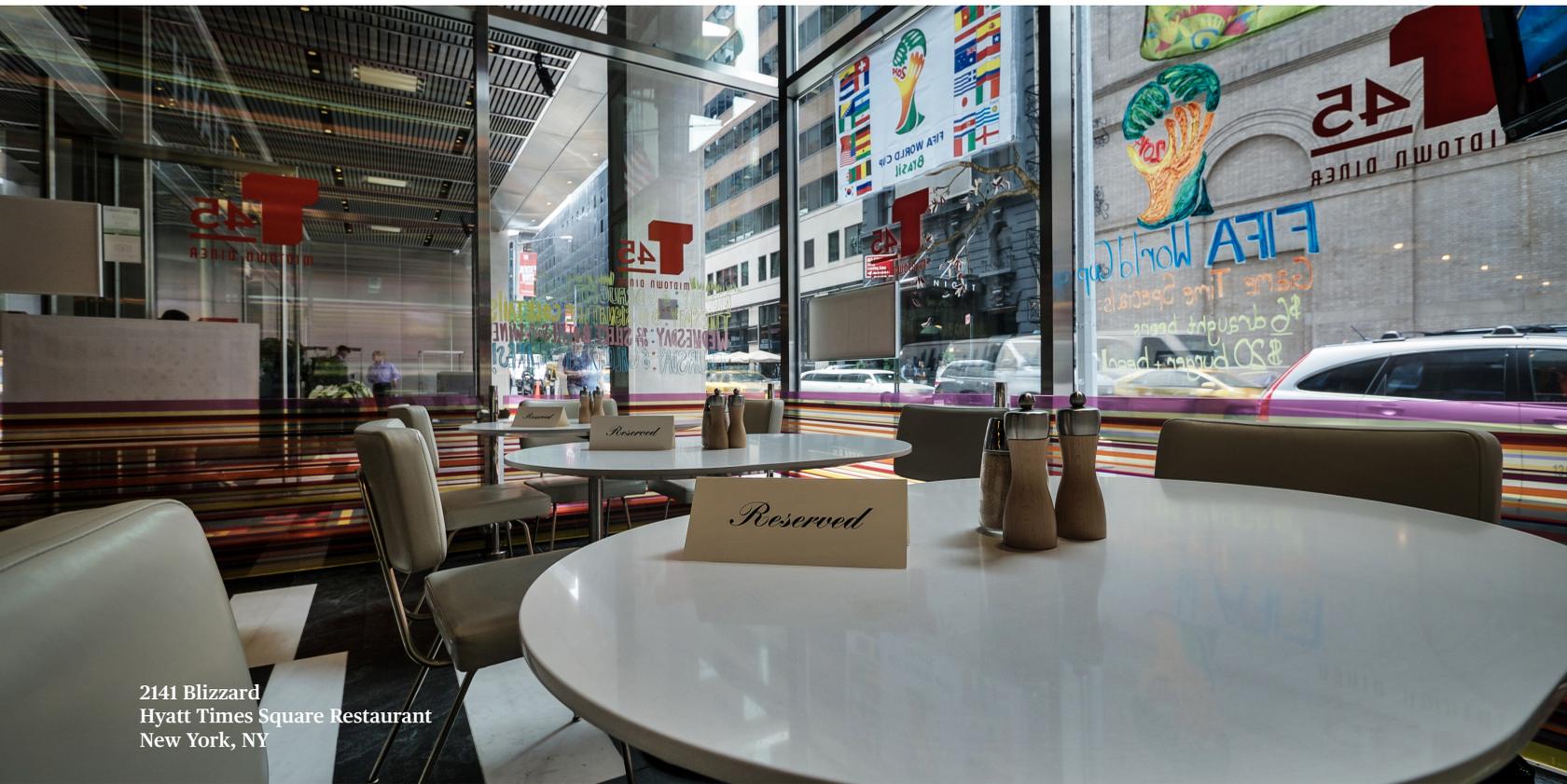


Toy Factory - Biscuit Lofts
New York City



Manhattan House
O'CONNOR Capital Partners
Manhattan, NY

Lifetime Warranty



2141 Blizard
Hyatt Times Square Restaurant
New York, NY

Covered. For Life.

Lifetime Residential and Commercial warranties are available for Caesarstone surfaces. Caesarstone warrants that its quartz surfacing material complies with Caesarstone's published product data.

Because Caesarstone does not have control of fabrication or installation, **Caesarstone disclaims incidental and consequential damages** and buyer's sole remedy is repair or replacement of defective material at Caesarstone's discretion.

* Some restrictions apply. Copies of our Lifetime Warranty are available on our website. Learn more by visiting www.caesarstoneus.com or calling 877.978.2798



Caesarstone U.S. Manufacturing Facility
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Cover: 4033 Rugged Concrete

Some photos used in this brochure include creative applications that may not be covered by Caesarstone's Residential Lifetime Warranty. Please refer to your fabricator and our warranty guidelines for further details.

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1. PRODUCT AND COMPANY IDENTIFICATION
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Product Name: Caesarstone®

SDS Revision Date: December 2016

Product Use: Caesarstone® quartz surfaces are designed for indoor use, particularly kitchen and bathroom worktops, flooring, cladding and other similar uses.

Avoided Uses: Do not fabricate the product by using dry processes which generate dust.

Company	Address	Emergency Phone #
Caesarstone Ltd.	MP Menashe, 38805, Israel www.caesarstone.com sdsinfo@caesarstone.com	+972-4-610-9368
Caesarstone USA Inc.	9275 Corbin Ave., Northridge, CA 91324	+1-818-779-0999
Caesarstone Canada Inc.	8899 Jane St., Concord, Ontario, Canada L4K 2M6	+1-416-322-4000
Caesarstone Australia Pty Ltd.	Unit 3/1 Secombe Place, Moorebank 2170, NSW, Australia	+61-1300-119-119
Caesarstone South East Asia Pte Ltd.	10 Bukit Batok Crescent, #08-06, The Spire, Singapore 658079	+65-6316-1938
Caesarstone (UK) Ltd.	Unit 3, Navigation Park, Enfield EN3 4NQ	+44-800-1588088

2. HAZARDS IDENTIFICATION

The finished Caesarstone® product poses no health hazard. However, dust derived from Fabrication Processes* contains respirable crystalline silica (SiO₂). Hence, workers involved in Fabricating Processes, whether at the fabrication workshop or upon installing and removing/demolishing Caesarstone® slabs are at risk for significant crystalline silica exposure. In this SDS Caesarstone® slabs are referred to also as “products”. During the Fabricating Process, it is necessary to consider the following information.

* “Fabrication Process/es” or “Fabricating” or “Fabrication” means cutting, grinding, chipping, sanding, drilling, polishing, etc. manufacturing processes.

PLEASE READ CAREFULLY

DANGER!



Category 1A (Carcinogenicity) (H350, H372)



Category 3 (Respiratory tract irritation) (H335)

HAZARD STATEMENTS:¹

(H350) May cause CANCER (inhalation)

(H372) Causes damage to lungs through prolonged or repeated exposure (inhalation)

(H335) May cause respiratory tract irritation



PREVENTION:¹

P202 Do not handle until all safety precautions have been read and understood.

P260+P261 Do not breathe dust generated during the Fabrication Process, installation and removing/demolishing processes.

P264 Wash face and hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P284 Wear respiratory protection for particles (P3).

Refer to Section 7 for Handling and Storage and to Section 8 for dust Exposure Controls.



FIRST AID MEASURES:¹ P314 Get medical advice/attention if you feel unwell.

DISPOSAL:¹ P501 Dispose of remains in accordance with local regulations.

REGULATION (EC) No 1272/2008.

¹ Globally Harmonized System of Classification and Labelling of Chemicals (GHS)-UNECE- GHS (Rev.4) (2011).

Potential Health Effects

Inhalation: Do not breathe dust.

Workers who inhale very small crystalline silica particles are at risk for silicosis – an incurable, progressively disabling and sometimes fatal lung disease. Silicosis results in permanent lung damage. Silica dust particles become trapped in lung tissue, causing inflammation and scarring and reducing the lungs' ability to take in oxygen. Symptoms of silicosis can include shortness of breath, cough and fatigue, and may or may not be obviously attributable to silica. According to USA OSHA alert of Feb 2015, workers exposed to airborne crystalline silica also are at increased risk for lung cancer, chronic obstructive pulmonary disease (COPD) and kidney disease, and according to certain medical schools of thoughts, such workers are also at increased risk for auto-immune diseases (for example rheumatoid arthritis).

Skin and Eye Contact: Mineral dust may produce transitory mechanical irritation to skin and eyes.

Aggravation of Pre-existing Conditions: Persons with impaired respiratory function and chronic respiratory disorders may be more susceptible to the effects of this substance and may be adversely affected by any airborne particulate matter exposure. Smoking can increase the risk of lung injury. Inhalation may increase the progression of tuberculosis. Persons with preexisting skin disorders may be more susceptible to the effects of this material.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	%
Quartz/silica sand	14808-60-7	<93
Cristobalite	14464-46-1	<50
Feldspar	68476-25-5	<65
Glass & mirror	N/A	<43
Polyester resin	Mixture	7.0-14.5
Other material ²	NA	<4.5
Titanium dioxide	13463-67-7	<4
Inorganic pigment mixture ³	NA	<1

Percentage refers to maximum possible per slab; presence and percentage depend on specific slab model.

² Up to 4.5% of material, the specific identity of which is a trade secret of Caesarstone. Exposure control of this material is treated under quartz/silica exposure and does not require additional protective means. Health Hazards related to this material according to OSHA:

Carcinogenic Classification: International Agency for Research on Cancer (IARC): Group 3, not classifiable as to its carcinogenicity to humans. Potential Symptoms: Fibrotic pneumoconiosis. Health Effects: Pneumoconiosis. Affected Organs: Lungs, CVS

³ All pigments used by Caesarstone are certified for food contact (NSF/ANSI Standard 51- Food Equipment Materials)

4. FIRST AID MEASURES

Eye Contact with Dust: Flush immediately with copious amounts of water for a minimum of 15 minutes. Seek immediate medical attention.

Skin Contact with Dust: Wash affected area with soap and plenty of water. Seek medical attention if adverse effects occur.

Inhalation of Dust: Remove person to fresh air. If breathing has stopped, administer artificial respiration and seek immediate medical attention.

Ingestion of Dust: Product in its marketed form is inert. If large amounts are swallowed, seek medical attention.

5. FIRE FIGHTING MEASURES

Auto-ignition: Quartz surfaces products can be combusted only with difficulty.

Fire-resistant:⁴ B, s1 d0/Bfl, s1

Fire Spreading Rating:⁵ class A 0-25

Smoke Developed Rating:⁵ 0-450

Flash Point: 490°C

Flammable Limits in Air (% by Volume): NA

Extinguishing Media: Water, dry chemical, CO₂ and foam

Special Fire Fighting Procedures: Keep personnel away and upwind of fire. Use self-contained breathing apparatus with full face mask.

Unusual Fire and Explosion Hazards: Decomposition products resulting from the polymer and pigments degrading at elevated temperatures include various hydrocarbons, carbon dioxide, carbon monoxide and water. Fumes of metal oxides and mica particles could also be released.

⁴ Based on the European Standard EN 13501-1, which provides the reaction to fire classification procedure for all products and building elements.

⁵ The most widely accepted flame-spread classification system appears in the National Fire Protection Association Life Safety Code, NFPA No. 101.

6. ACCIDENTAL RELEASE MEASURES

The product does not represent a risk of spillage.

Cleanup and Disposal of Spill: Solid slabs can simply be gathered and disposed of as necessary. However, if large amounts of dust or waste are created by cutting during the Fabrication Process, use a HEPA vacuum system or dampen spilled material with water and sweep up wet material to avoid dust generation - DO NOT DRY SWEEP. Wear suitable respiratory protection and protective clothing (see Section 8). If large quantities of this material enter the waterways, contact the Federal, State, or local Waste Management Authority. Dispose of waste in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Handling: Wear safety shoes and gloves during manual handling and storage operations of Caesarstone® slabs.⁶ The product is heavy and breakable; handle with care to avoid injury and prevent damage. Look for your local safety regulations related to handling and working with heavy material.

Avoid breathing dust when Fabricating, installing and removing/demolishing the product. Refer to Section 8 for Exposure Control/Personal Protection details.

Storage: Store properly in a closed and covered place. Avoid strong impacts that may cause the material to break.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: Permissible Exposure Limit (PEL)

There is no provision for any risk associated with the finished Caesarstone® product in the CLP (EC) regulation no. 1272/2008.

However, in Fabrication Processes of the product, dust containing crystalline silica (SiO₂), other minerals, and titanium dioxide may be generated. USA OSHA determined a general dust PEL of 15 mg/m³, a general respirable dust PEL of 5 mg/m³ and a titanium dioxide PEL of 15 mg/m³.

Check the PELs applicable under the regulations of each country where you handle the product.

⁶ According to Standards for Gloves - EN 388: 2003.

PELs for respirable crystalline silica and cristobalite, measured in mg/m³, 8 hours, TWA, are as follows: (These limits may be changed from time to time; you are required to follow local safety announcements.)

Country/Authority	Crystalline Silica (SiO ₂)	Cristobalite & Tridymite
Austria	0.15	0.15
Belgium	0.1	0.05
Czech Republic	0.1	0.1
Denmark	0.1	0.05
Finland	0.2	0.01
France	0.1	0.05
Germany ⁷	-	-
Greece	0.1	0.05
Ireland	0.05	0.05
Israel	0.1	-
Italy	0.025	0.025
Netherlands	0.075	0.075
Norway	0.1	0.05
Poland	0.3	0.3
Portugal	0.025	0.025
Spain	0.1	0.05
Sweden	0.1	0.05
Switzerland	0.15	0.15
United Kingdom	0.1	0.1
Australia	0.1	0.1
South Africa	0.1	-
USA OSHA ^{8,9} PEL ⁹	0.05	0.05
ACGIH ⁹ (2016)	0.025	0.025
NIOSH ⁹	0.05	0.05

Employers should consult with a trained occupational safety and health professional in order to monitor the air in their workplace and in order to determine worker exposures to hazardous dust.

⁷ Germany no longer uses a PEL for quartz, cristobalite and tridymite. Employers are obliged to minimize exposure as much as possible, and to follow certain protective measures.

⁸ See OSHA - 29 CFR 1910.1053.

⁹ Abbreviations: see Section 16.

Exposure Control

Manufacturing and Installation: Dust derived from the Fabrication Processes contains crystalline silica (SiO₂). Exposure to SiO₂ dust without the use of suitable protection may cause serious diseases as detailed in Section 2 and Section 11.

Exposure to dust may be monitored and controlled with suitable control measures such as:

Engineered Controls: CNC machines and wet cutting methods are recommended to reduce generation of dust. When Fabricating the product, installing or removing/demolishing the installed product, use equipment with integral dust collection and/or use local exhaust ventilation in a safe manner to maintain the ambient workplace atmosphere below the relevant PEL.

Cleaning and Maintenance: Use HEPA vacuum and/or water cleaning systems. Never dry sweep or use compressed air.

Preventive Maintenance Programs: Preventive maintenance programs should be developed to ensure a correct procedure for the cleaning and operation of work equipment.

Personal Protective Equipment

Eye/Face Protection: During Fabrication operations use dust-proof goggles or safety glasses with side shields.¹⁰

Hand and Skin Protection: Cotton or leather work gloves¹¹ and steel-toed shoes should be worn when handling and transporting the product. During the Fabrication Process protective clothing should be worn to minimize cuts and/or skin exposure to dust. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Promptly remove dusty clothing (which is a source of respirable silica) and launder safely, preferably on site, separately from other clothes, before reuse.

Respiratory Protection: Properly fitted respiratory protection equipment approved by the National Institute for Occupational Safety and Health (NIOSH; USA) for protection against organic vapors and dusts is necessary to avoid inhalation of crystalline silica during the Fabrication Process of the product, and other processes that generate dust. The appropriate respirator selection depends on the type and magnitude of exposure.¹² Use a positive pressure air supplied respirator if there is a potential for an uncontrolled release, exposure levels are not known, or under any other circumstance where air purifying respirators may not provide adequate protection.

¹⁰ According to 29CFR 1910.133 or European Standard EN166.

¹¹ According to Standards for Gloves - EN 388: 2003.

¹² According to 29 CFR 1910.134 for appropriate NIOSH approved respirators, NIOSH Pocket Guide to Chemical Hazards, DHHS (NIOSH) Publication NO. 2001-145 for equipment selection and EN-143: 2001 and its revisions EN-143/AC: 2002, and EN-143/AC: 2005.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Multi-coloured solid engineered stone
Odour:	Odourless
pH:	NA
Melting Point/Freezing Point:	NA
Initial Boiling Point/Boiling Range:	NA
Flash Point:	490°C
Evaporation Rate:	NA
Flammability:	NA
Upper and Lower Flammability/Explosive Limits:	NA
Vapour Pressure:	NA
Vapour Density:	NA
Relative Density (EN-14617-1):	2188-2405 kg/m ³
Solubility:	Insoluble in water
Partition Coefficient of Thermal Expansion (EN-14617-11):	4.9-6.3·10 ⁻⁶ °C ⁻¹
Auto-ignition Temperature:	NA
Decomposition Temperature:	NA
Viscosity:	NA

10. STABILITY AND REACTIVITY

Reactivity: The product is stable under normal conditions of use, storage and transport.

Chemical Stability: Stable at normal temperatures and storage conditions.

Physical Stability: Avoid strong impacts that may cause the material to break.

Incompatibility with Other Materials: This product is incompatible with hydrofluoric acid.

Hazardous Decomposition Products: Thermal decomposition can release various hydrocarbons, carbon dioxide, carbon monoxide and water. Fumes of metal oxides and mica particles could also be released.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

No acute or chronic effects are known from exposure to the intact product.

Primary Routes of Exposure: None for intact product. Inhalation and potential exposure to eyes, hands, lungs or other body parts if contact is made with dust emitted from the Fabrication Process.

Acute Effects: Breathing dust may cause acute mechanical respiratory irritation. Skin and eye contact may cause mechanical irritation.

Respiratory Effects

Crystalline Silica (SiO₂)

Exposure to respirable crystalline particles of a very small size (less than 10 microns) may cause silicosis, an incurable, progressively disabling and sometimes fatal lung disease. Silica dust particles become trapped in lung tissue, causing inflammation and scarring and reducing the lungs' ability to take in oxygen. Symptoms of silicosis can include progressive shortness of breath, cough and fatigue. Safety measures including wet processing and the use of effective respiratory protection will reduce the burden of inhaled dust and prevent the disease.

Titanium Dioxide (TiO₂)

May cause lung fibrosis and nuisance particulate accumulation in lungs.

Carcinogenicity: The following components are listed by IARC, NTP, OSHA or ACGIH as carcinogens.

Material	IARC	NTP	OSHA	ACGIH
Silica, Crystalline (quartz and cristobalite)	Group 1 <i>carcinogenic to humans</i>	known to be a carcinogen	Yes regulates as carcinogen	A2 suspected human carcinogen

Teratogenicity: No data

Mutagenicity: No data

Name of toxicologically synergistic products: No data

Toxicity Testing Data

Crystalline Silica: Inhalation (human) LCLo: 0.3mg/m³/10Y
Inhalation (human) TCLo: 16mppcf/8H/17,9Y
Intermittent; focal fibrosis, (pneumoconiosis), cough, dyspnea
Inhalation (rat) TCLo: 50mg/m³/6H/71W
Intermittent; liver – tumors
Oral LD₅₀ RAT: 500 mg/kg

Sensitization: No Data

Mutagenicity: No Data

Reproductive Effects: No Data

Developmental Effects: No Data

12. ECOLOGICAL INFORMATION

Toxicity is expected to be low, based on the insolubility of the product and of the silica dust in water. Caesarstone® does not contain ecotoxins and also due to its physical-chemical nature, it inhibits the growth of micro-organisms on its surface.

Environmental Fate: No data

Environmental Toxicity: No data

ISO 14001 Certification: Caesarstone® is ISO 14001 certified for Environmental Management Systems.

GREENGUARD Certification: Caesarstone® is compliant with the GREENGUARD standard.

Quartz (14808-60-7)

Environmental Fate: No data

Environmental Toxicity: No data

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Preferred options for disposal are (1) recycling, and (2) landfill. All disposal must be carried out in accordance with all the laws, requirements and guidelines applicable in the location of the user of Caesarstone® products.¹³ Performance of landfill should be made in an appropriate waste disposal facility approved by local authorities.

14. TRANSPORTATION INFORMATION

ADR¹⁴/ RID¹⁴/ IMO¹⁵/ ICAO¹⁶/ US DOT¹⁷	Proper Shipping Name	Not Regulated
	Hazard Class	Not Regulated
	ID Number	Not Regulated
	Packaging Group	Not Regulated

15. REGULATORY INFORMATION

This Safety Data Sheet (SDS) is according to (EC) No 1272/2008 and the CLP Regulation.

U.S. Federal Regulations:

SARA Title III¹⁸ Hazard Classes:

Fire Hazard: No

Reactive Hazard: No

Release of Pressure: No

¹³ 91/156/EEC and 199/31/CEE and the law 10/98, April 21 and RD 1481/2001, 27 December.

¹⁴ ADR and RID stand for the European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR) and the Joint meeting of RID Safety Committee and the Working Party on the Transport of Dangerous Goods (WP.15). The RID Safety Committee and WP.15 administer the European Agreements governing the Regulations Concerning the International Transport of Dangerous Goods by Rail (RID) and Road (ADR), respectively.

¹⁵ International Classes for Dangerous Goods

¹⁶ International Civil Aviation Organization

¹⁷ Department of Transportation

¹⁸ Superfund Amendments and Reauthorization Act - Title III of SARA is the Emergency Planning and Community Right-To-Know Act (EPCRA).

Acute Health Hazard: No

Chronic Health Hazard: Yes

TSCA:¹⁹ All components of this product are on the TSCA inventory or are exempt from TSCA Inventory requirements.

U.S. State Regulations: California Prop 65 List: Crystalline silica is classified as a substance known to the State of California to be a carcinogen.

Inventory Information: The substances in this document have been checked against the EINECS,²⁰ ELINCS,²¹ and the NLP²² list. Substances not identified on these inventories are exempt from notification requirements. (The EINECS number for Quartz: 238-878-4.)

16. OTHER INFORMATION

Hazard Ratings according to: NFPA(R)²³ and HMIS²⁴

Health Hazard: 1

Flammability: 0

Reactivity: 0

Key Legend Information:

ACGIH American Conference of Governmental Industrial Hygienists

IARC International Agency for Research on Cancer

OSHA Occupational Safety and Health Administration

NA Not Applicable

NTP National Toxicology Program

PEL (OSHA) Permissible Exposure Limit

STEL Short Term Exposure Limit

¹⁹ Section 8 (b) of the Toxic Substances Control Act (TSCA) requires EPA to compile, keep current and publish a list of each chemical substance that is manufactured or processed, including imports, in the United States for uses under TSCA inventory.

²⁰ European Inventory of Existing Commercial Chemical Substances

²¹ European List of Notified Chemical Substances

²² No Longer Polymer

²³ National Fire Protection Association

²⁴ Hazardous Materials Identification System

TLV Threshold Limit Value
TWA Time Weighted Average

References:

- Registry for Toxic Effects of Chemical Substances (RTECS), 2006.
- OSHA/NIOSH Worker Exposure to Silica during Countertop Manufacturing, Finishing and Installation — <http://www.cdc.gov/niosh/docs/2015-106/pdfs/2015-106.pdf>
- NIOSH Hazard Review — Health Effects of Occupational Exposure to Respirable Crystalline Silica, April 2002.
- NTP Eleventh Report on Carcinogens, 2005.
- IARC Monograph Volume 68, Silica, Some Silicates and Organic Fibres, 1997.
- Hazardous Substances Data Bank (HSDB), 2006.
- Documentation of the TLV — Silica, Crystalline: x-Quartz and Cristobalite, American Conference of Governmental Industrial Hygienists, 2006.

The information contained herein is believed to be correct and represents the best information currently available for Caesarstone®. However, Caesarstone makes no warranties, expressed or implied, of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from the use thereof. Under no circumstances does the data contained in this Safety Data Sheet constitute a guarantee of specific properties other than such properties explicitly mentioned in this SDS, or create any contractual relationship. The user of the product only is responsible for determining the suitability of Caesarstone's products for its particular application.

It is the exclusive responsibility of the recipient of our product to find out the applicable laws, rules, practices and regulations prior to using the product and to comply with them in all respects. You should note that applicable national and international regulations and laws may change from time to time and it is your responsibility to follow such changes.

The contents of this Safety Data Sheet must not be interpreted as a recommendation to use any product in violation of the laws or safety practices.

Further information is available at <https://www.osha.gov/silica/> and at <http://www.nepsi.eu/> and in the *Guide to Good Practice for the Agreement on Workers' Health Protection Through the Good Handling and Use of Crystalline Silica and Products Containing It*, published by NEPSI. See also the Caesarstone website for safety instructions and recommendations at: www.caesarstone.com.