

COLORQUARTZ[®]

Product Manual

OVERVIEW

This publication manual recommends fabrication best practices for ColorQuartz countertops cut from slabs supplied directly and by distributors. Standard industry practices should be observed.

If purchasing from certified fabricators, end users are guaranteed product quality by a Lifetime Residential Warranty and a 10-year Limited Commercial Warranty. Any failure by a Fabricator to comply with the recommended methods of fabrication of countertops from slabs may result in refusal of an end user claim. Please direct any questions about the recommendations in this manual to your local ColorQuartz representative office.

ColorQuartz® Fabrication Manual

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This manual supersedes all previous manuals. Content is subject to change at any time without notice. The use of the term “Distributor” and “we” throughout this document refers to ColorQuartz, Inc. ColorQuartz® is a registered trademark of ColorQuartz, Inc.

Note: This manual is not for general distribution.

DOCUMENT EDITION	DATE EFFECTIVE	DISTRIBUTION
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GENERAL INFORMATION

Applications ColorQuartz is ideal for a wide range of interior commercial and residential applications, including those subject to heavy use, such as kitchen countertops, bartops, vanities, interior cladding, and furniture pieces.

ColorQuartz is not suitable for exterior use, or any areas that are exposed to direct sunlight UV radiation or excessive heat over 300° F.

Dimensions ColorQuartz is available in sizes that are ideal for kitchen counter and vanity tops. The slab sizes are:

- 56.5" (1,440mm) × 120" (3,060mm) – Standard
- 1.65 × 3.25 - Jumbo

Nominal thickness options of ¾" (2cm +/-1.5mm) or 1¼" (3cm +/-1.5mm).

Note: Not all colors are available in all sizes and thicknesses.

Slab dimensions are used as reference for storage and transportation. Actual usability varies with slab and should be inspected prior to cutting: maximum width and length usability is determined by the slab's perimeter according to color, polish, transportation damage or any other defect that may be visible. If the slab proves to be unsuitable it should be exchanged for another prior to cutting.



Care should be taken if using the gray-shaded area of the slab. It should be thoroughly inspected prior to fabrication. This area will vary from slab to slab and side to side.

The green area represents the primary usable area of the slab.

Safety Guidelines Fabricators and installers are required to maintain a safe work environment.

- Read operating tool literature to be advised of hazards, applications and limitations.
- Keep guards in place and in working order.
- Ground all three-pronged tools. Never remove the third prong.
- Check for adjusting keys and wrenches before turning tools on.
- Prevent accidents by keeping work areas clean, dry, well-ventilated, well-lit and uncluttered.
- Employ Ground Fault Circuit Interrupters(GFCI) where there is water or moisture. Where masks and cut material with wet tools to reduce the amount of airborne particles inhaled.
- Ensure that children and visitors are kept at a safe distance from the work area.
- Childproof workshop with padlocks, master switches or by removing starter keys.
- Use the right tools as designed. Wear proper apparel for work areas. Wear hair-protective covering to contain long hair. Wear ear/nose protectors and safety shoes.
- Wear approved protection eyewear. Use clamps or a vise to secure work when necessary, freeing both hands to safely operate tools.
- Don't overreach. Keep proper footing and balance at all times.
- Maintain tools in top condition. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

Vehicle Loads The Driver is responsible for ensuring that the load is within the legal carrying capacity of the vehicle. ColorQuartz has no way of determining this at our premises.

As a guide you must allow approximately 485 lbs. (220kg) per 2cm slab and 727.5 lbs. (330kg) per 3cm slab, plus the weight of any other items already loaded on the vehicle.

Securing the Load It is the responsibility of the Driver to ensure that the load is fully supported and safely secured to the vehicle prior to leaving premises. The Distributor will not secure the load to your vehicle.

Handling The slabs are best loaded/unloaded from a container or truck with a forklift or lifting device capable of handling at least 2,000 lbs. (900kg). ¾" (2cm) material weighs 485 lbs (220kg). 1¼" (3cm) weighs 727.5 lbs (330kg).

Because of the weight, proper safety shoes and gloves should be worn. Handle slabs either singularly or in multiples of two. Use clamps or sling straps and lift the slabs face-to-face. For better grip, take care to clasp the slabs from the back side (while face-to-face).

Warning: Keep a safe distance when handling/lifting the slabs.

Visual Inspection Performing a visual inspection for defects or color matching is essential when working with ColorQuartz and should be a standard practice before cutting. Complete the following slab inspection steps as a guide to visual inspection for defects:

- | | | |
|--|--|--|
| <input type="checkbox"/> Hairline cracks | <input type="checkbox"/> Slab-to-slab color match | <input type="checkbox"/> Color consistency within the sheet |
| <input type="checkbox"/> Quartz pattern irregularity | <input type="checkbox"/> Thickness tolerance 1.5mm | <input type="checkbox"/> Warpage: length 1/8" (3mm), width 1/16" (1.5mm) |
| <input type="checkbox"/> Irregular spots | <input type="checkbox"/> Inconsistent gloss levels | <input type="checkbox"/> Face side pits/voids/blemishes |

Note: We will not accept any claims for any of the above if the slab is modified in any way whatsoever. The Fabricator is responsible for determining if the slabs are fit for use. If they are not, they should be exchanged before the slabs are cut or modified in any way.

Note: Length warp should be checked using a full-length straight-edge when the slab is placed horizontally.

Storage Store slabs in a way that prevents warping. Use at least two support beams to hold the slabs in place. Have the slabs placed vertically on an H frame. There should be no more than 20 slabs to each rack with the slabs face-to-face and back-to-back. Slabs must be bound with straps at all times, to minimize expansion and maintain flatness.

Slabs are fastened, on exiting production, with straps. Over time, the resin hardens and will maintain its shape and flatness. Thus, it is vital to keep it strapped in the initial phase as to keep it from warping later on. Please see picture.

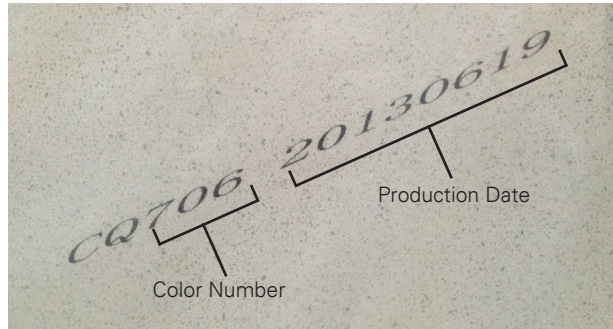
Polished slabs should never be stored outdoors, as UV rays can permanently damage the internal structure of the slabs. It is not necessary to store the slabs in a shaded area, but it is necessary to keep the last slabs in each rack facing out. Storage temperatures should not exceed 135°F.



Color Match Because of ColorQuartz's complex blend of natural minerals, check slabs for color variations that may arise from different production cycles. Follow the guidelines below:

Complete jobs from the same batch number, visually inspecting to confirm color consistency. Since the slabs are 93% natural quartz each slab is unique and must be checked for shade and quartz distribution.

Always do a visual color match under similar lighting conditions as found at the job site before cutting. We do not recommend mixing different batch numbers.



Quartz Pattern Irregularities ColorQuartz displays random distribution throughout each slab. If any obvious irregular distribution of particles is apparent in the slab, the fabricator must determine if the slab is suitable. If unsuitable, the slab should be exchanged prior to cutting.

Slab Identification Badge Identification badges display production information, which can be useful through transportation, distribution, fabrication, installation, and troubleshooting processes.

COLORQUARTZ® SURFACES

Cat No: 3200P

Batch: 1079800

Thickness: 20mm
Date: 27.03.2008
No. 100797624
QC:D 2

100797624 3200P

Made in USA 1079800

COLORQUARTZ® SURFACES

3200 P

1079800

100797624

COLORQUARTZ® SURFACES

Cat No: 3200P

Batch: 1079800

Thickness: 30m m
Date: 06.03.20 13
No. 100797624
QC:D 2 1401105/2

3200P 100797624

1079800

COLORQUARTZ® SURFACES

Cat No: 3200P

Batch: 1079800

Thickness: 30m m
Date: 06.03.20 13
No. 100797624
QC:D 2 1401105/2

3200P 100797624

1079800

Note: All batch numbers should be recorded for future reference.

MATERIAL SAFETY DATA SHEET

Product Information

Description: Quartz slabs, pre-fabricated countertops, and cut-to-size countertops to be used for interior application.

Composition:

Component	Composition %
Crushed silica quartz, glass, mirror, granite, and other natural stone	≥88%
Polyester resin and pigments	balance

Potential Side Effects

ColorQuartz Surfaces in finished form does not present any health hazard to users.

Dust and powder generated from fabrication and installation may cause irritation to skin, eyes, nose, and airways. Adequate ventilation systems should exist in the fabrication work areas to minimize constant inhalation of flying dust and powder. Fabricators and installers should use vacuum cleaning equipment, dust pick/up systems, and protection masks.

Massive inhalation of crystalline silica may cause pulmonary diseases such as bronchitis, emphysema, and other pulmonary diseases.

IMPORTANT PRACTICE: we recommend the product to be made, fabricated, and installed using wet production methods.

First Aid Measures In the event of any unwanted contact with powder and dust, please follow these guidelines:

- Skin: Wash exposed skin with soap and water. Remove exposed clothing.
- Eyes: Wash hands thoroughly first. Flush eyes with plenty of water.
- Dizziness: Take the affected person to a fresh air or well-ventilated area.
- Ingestion: Seek medical attention.

Fire Fighting Measures The product is hardly flammable.

- Extinguishing Method: Use standard extinguishers.
- Firemen Protection: Standard equipment.
- Exposure: No explosion danger.

Preventive Measures/Personal Protection

Cutting, Sanding, and Polishing

- Use safety goggles, face and neck protection, and dusk masks.
- Use dusk extraction equipment.
- Use dust vacuum cleaning equipment.

Slabs and Countertops Handling

- Recommended to do in an adequately marked area away from frequent foot traffic.
- Recommended to mechanize the handling of heavy or complex pieces.

Physical & Chemical Properties

Physical appearance:	Multi-colored engineered quartz stone
Odor:	Odorless
pH:	n/a
Moisture Absorption:	0.06%
Density :	¾" inch thickness = 151.95 lb/ft

Technical Properties

Durability	
Mohs Hardness Scale	Quartz = 7 Diamond = 10 (highest)
Impact Resistance	No fracture
High Temperature Resistance	No effect

Strength	
Flexural Strength	4,382 psi (308.1 kg/cm)
Compressive Strength	30,400 psi (2,137.8 kg/cm)

Stain Resistance	
Stain Resistance	No effect
Wear and Cleanability	Pass
Resistance to Fungi and Bacteria	No traces of growth

Chemical Resistance	
Resistance to Household Chemical	Pass
Resistance to Chemical Substances	Not affected

Safety and Health	
Surface Burning	Class A rated
Volatile Organic Compounds (VOCs)	7.01 mg/kg
Benzene Toluene Ethylbenzene Xylene (BTEX)	Benzene and Xylene = Not detected Toluene = 5.45 mg/kg Ethylbenzene = 1.20 mg/kg
Styrene	Not detected

ColorQuartz testing is performed by SGS Testing Company - an US Independent Laboratory. Testing represents average results. Results may vary for different ColorQuartz series. For more details, please refer to ColorQuartz Technical Specifications.

Stability and Reactivity

Chemical Stability Conditions to Avoid Materials/Chemical to Avoid Hazardous Decomposition Products	Stable Outdoor, sun, and rain Hydrofluoric acid Upon decomposition, hydrocarbons, carbon dioxide, carbon monoxide fumes, and water may be released.
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Toxicological Information

The powder generated in the manufacturing process contains silica (SiO₂).

Prolonged and massive inhalation of crystalline silica may cause pulmonary fibrosis, and pneumoconiosis and silicosis, as well as a worsening of other pulmonary diseases (bronchitis, emphysema, etc.) The main symptoms of silicosis is the lost of pulmonary capacity. People with silicosis have a greater risk of getting lung cancer.

Environmental Information

Ecotoxicity Mobility Persistence/Degradability	No detrimental environmental impact is known. Not volatile. Insoluble in aquatic environment. No biodegradable data is available.
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Waste Disposal Considerations

Any waste shall be disposed in an appropriate and approved waste disposal facility. Discard and dispose in accordance with federal, state, and local laws and regulations.

ColorQuartz Surfaces is not classified as hazardous waste.

Other Information

This Material Safety Data Sheet does not replace the technical specifications. Please refer to ColorQuartz Technical Specifications available at www.ColorQuartzstone.com

All information and recommendations in this document are made in good faith. Nothing expressed herein can be interpreted or construed as a warranty or other implicit condition (legal or any other kind).

FABRICATION INSTRUCTIONS

Tools and Safety Equipment

Fabricators should employ the below list of essential tools and safety equipment to safely and efficiently produce quality finished products.

Basic Tools

- Bridge Saw
- Electric/pneumatic polisher (variable speed preferred)
- Diamond grinding wheel
- Diamond polishing pad
- Grinding stone
- Core bits
- Diamond contour blade
- Wet profiling machine (edge router)
- Stone carts/dollies
- A-Frame/storage racks
- Fabrication stands
- Air compressor
- Seaming clamps
- Water source

Advanced Tools

- Water jet
- CNC
- Automated profiler
- Diamond jig saw

Basic Safety Equipment

- First-aid kit
- Safety glasses
- Dust masks
- Work gloves
- Aprons
- Ear plugs

Protective Wear

Wearing an approved face mask is recommended when fabricating ColorQuartz (refer to the MSDS on Page 7). Stone dust contains silica, which is dangerous when inhaled. Always cut and polish ColorQuartz with wet diamond tools and take appropriate measures to provide efficient ventilation in the work area.

- Always wear approved eye protection when fabricating ColorQuartz.
- Always wear approved hand protection when fabricating ColorQuartz.
- Always wear approved foot protection when fabricating or installing ColorQuartz.

Packing for Transport

Consideration product weight, fragility, portability and site access when transporting.

Brace all cutouts to avoid flexing of seams and corners.

Transport ColorQuartz with sections touching face-to-face or back-to-back. Do not allow any parts to slide around during transportation. Make sure the face is always protected and not touching metal, the back of another slab, etc.

Racking for Transport

Good racking is essential for getting the product to the site in good condition. Many rack designs have been made for stone slab transportation devices. Some prefer to have a removable "A" frame that they can hoist off the delivery vehicle.

The slabs should be securely fastened to the rack by straps. Care should be taken to protect the straps from being damaged or cut by the edge of the slabs.

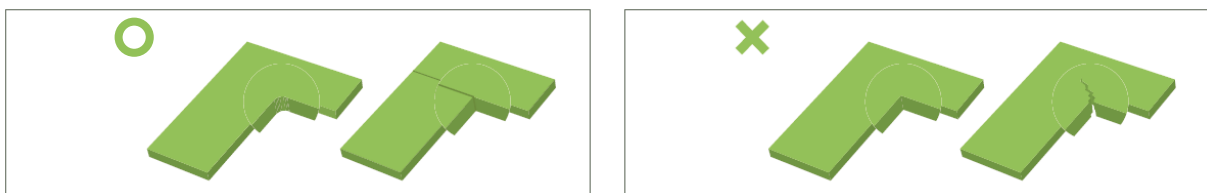
At least two people should be taken on the delivery vehicle to transport the product on-site

All racking should have a protective layer between the rack and ColorQuartz material. This will help to prevent scratching or other surface damage during storage or transit.

Basic Fabrication Guidelines

The following guidelines should be followed to ensure a high quality product:

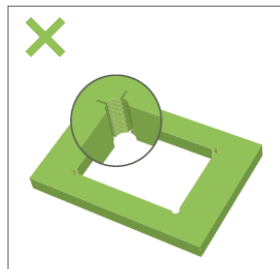
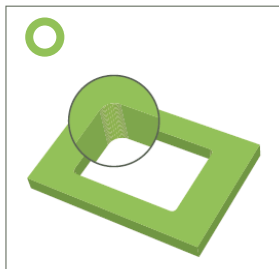
- Do not change the original surface finish of the slabs by re-polishing, honing, sealing, or otherwise altering the factory finish. To avoid overheating the slab, only water-cooled tools should be used for cutting, drilling, and polishing ColorQuartz.
- Do not cut square corners (cross cut) as this will create stress points in the slab and may result in cracking.
- When cutting an inside corner, always use a core bit to avoid damaging the corner area with the cutting disc. Damage to the radius area will create a stress point.
- Any internal angled corner must be radiused. Cut with the saw up to the joint of the drilled hole, leaving the drilled hole intact. Avoid dry grinding/polishing of the corner since overheating the area may result in a crack.



Inside Corners In the case of an angular shaped kitchen (L- or U-shaped), the surfaces of the countertop should be fabricated from a single slab. Inside corners must have a minimum $\frac{3}{8}$ " radius.

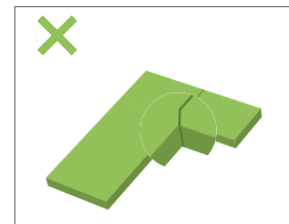
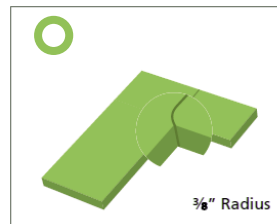
Cutouts

- If the distance between the cutout and a joint is less than 6", the area needs to be supported. This can be achieved by ensuring that all joints are placed at the junction of the base cabinets or a solid slat be fitted under the joint.
- Cross cutting should be avoided. When preparing a cutout always use a core bit. Avoid damaging the drill area with a cutting disk.
- Damage to the drilled area can result in stress points that may lead to hairline cracks. All cuts should be done using only wet diamond cutting tools to avoid generating excessive heat, which could also result in hairline cracks.
- Always allow an extra 1/8" between the appliance and the edge of the cutout for expansion.



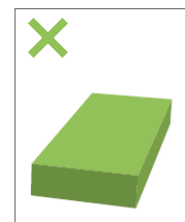
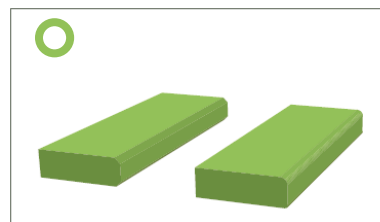
Seams

- If a straight seam is not used, any internal angled corner in the seam must have a 3/8" radius.
- All seams should be made level by adjusting the material before adhesive sets.
- Do not surface polish seams to make them even/level.
- Use a state-of-the-art seam setter tool to make seams as narrow and inconspicuous as possible. Seams should not be more than 1/16" wide.



Edge Detail Our recommended minimum edge profile is a 1/8" bevel. Our preferred minimum edge profile is a 1/8" (3–4mm) Pencil Round edge.

Note: Chiseled or hammered edges are not approved edge details.



Polishing Edge Profiles Granite or marble diamond polishing pads should be used to progressively polish edge profiles. ColorQuartz recommends the use of premium quality pads and plenty of water for best polishing results. Begin with a surface that is smooth, clean, and free from any residual adhesive.

Note: Care must be taken not to overpolish edges in excess of the factory surface polish.

Recommended polishing process for ColorQuartz:

- Honed finish 100, 200, 400-grit diamond pad
- Polished finish 100, 200, 400, 500–800, 1500–2000, 2000–3000-grit diamond pad

These recommendations are a guideline for achieving a polish equal to the factory surface polish. The type of tools, diamond pads, and fabrication techniques will affect actual polishing results. When polishing the edge profile, use water-cooled tools. Dry-polishing the edge profile may cause overheating, leaving the edge prone to chipping. Excessive heat undermines the physical structure of the slab, and although not visible to the naked eye, micro-fissures are formed, leading to chipping upon impact, discoloration and an uneven polish.

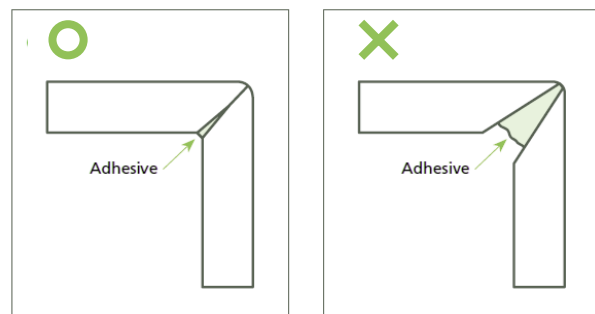
- Use lower RPM on polishers when using 1000-grit or higher diamond polishing pads.
- Do not use stone “buff” pads on ColorQuartz.
- Do not overpolish edge details in excess of the factory surface polish.

Mitered Edges

- Mitered edges should be done at a 45° angle to ensure maximum strength. The joint should be clean, flush, and parallel
- Mitered edges have the greatest area of weakness and are most prone to chipping. (Our recommended minimum edge profile is a 1/8” bevel. Our preferred minimum edge profile is a 1/8” (3–4mm) Pencil Round edge)
- Chipping is most common where adhesive is not evenly distributed throughout the joint.
- Do not cut edges at less than 45°, to reduce physical damage such as chipping.
- Incorrect angles restrict the type of edge that can be produced, since the larger the edge profile, the larger the joint that is visible.

Note: Ensure maximum strength by evenly distributing adhesive throughout the joint.

Note: Chipping of the countertop edge in this situation is not covered by our warranty.



Adhesives 100% clear silicone and other clear adhesives should be used to secure the countertops to the cabinets, substrate, or to secure ColorQuartz backsplashes to the wall.

Epoxies, liquid nails, construction adhesive, and other non-flexible adhesives do not compensate for thermal expansion. ColorQuartz will not warrant any claims for cracks that are the result of tops being bonded to the base cabinets with non-flexible adhesives.

Follow stone adhesive manufacturer's instructions. Observe good stone working and safety practices at all times and comply with applicable building codes and regulations.

Seaming & Laminations ColorQuartz requires that all fabricators follow the individual manufacturer's instructions for the use of their seaming adhesives, including but not limited to the minimum working temperatures for their product. Failure to follow the prescribed instructions will void the ColorQuartz warranty.

ColorQuartz recommends the use of a polyester resin knife grade adhesive as well as the Integra Estone 101 & Tri-Bond 30 cartridge system for all seaming and laminations.

Joint Adhesives In order to achieve a minimally visible seam, the adhesive used must be pigmented to a color similar to that of the material being installed. This can be done using color paste pigments mixed with the adhesive to achieve a color match.

Laminations/Double Edges When laminating, it is important to make sure that the lamination piece is the full length of the top piece and cut at 45° on the corners. If this cannot be done and a joining of the lamination pieces is unavoidable, the joint must be cut at 45°. The use of a mitered end cut reduces stress on the material that may cause stress fractures.

The lamination strip should be cut from the same slab as the counter top surface material to ensure a color match. It's recommended when cutting the piece to be laminated, to add the lamination piece size to your cutting measurements, ensuring that you will have the same length and same color piece for your lamination.

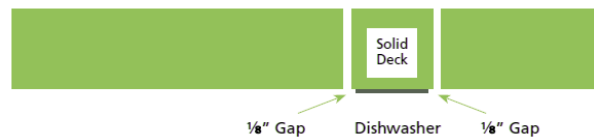
- A 45° corner joint is recommended to minimize the stress on corners.
- Use full-length lamination pieces.
- For very long countertops where a joint is required, ensure that the joint in the lamination piece is at 45° to reduce any stress points.

Seaming

- Use a state-of-the-art seam setter tool to make seams as narrow and inconspicuous as possible. Seams should not be more than $\frac{1}{16}$ " wide.
- All seam surfaces should be smooth and free of debris.
- ColorQuartz requires the use of colored glue for all seams. This can be accomplished by using one of the premixed Integra colors available or by manually tinting the glue of your choice.
- Grooves should be created in surfaces to be joined to allow space for glue. Extra glue should be placed at all corners and around joints. Note in Pictures A and B.
- Seam locations should be carefully planned to minimize visibility.
- ColorQuartz prohibits the surface polishing of seams.
- Never install mechanical fasteners (screws, nails, etc.) into ColorQuartz.

Joint Positions Seam over dishwasher (not recommended)

- In a case where a seam must be located over a dishwasher, the use of a full deck-isolated support is required. This will allow proper support for the area as well as allowances for thermal movement.
- When installing $\frac{3}{4}$ " (2cm) material the plywood sub top over the dishwasher must be isolated from the rest of the sub top. This should be done by allowing $\frac{1}{8}$ " clearance on either side of the full deck support.
- On seams, miters, and lamination areas, it is necessary to grind notches or grooves on the surfaces to be bonded together. ColorQuartz is nonporous and will not absorb the adhesive – these notches provide a space for the adhesive within the joint



INSTALLATION INSTRUCTIONS

Preparing Base Units/Cabinets Ensure that cabinets are complete and satisfactorily installed. Verify that all cabinets are level. The tops of the cabinets must be flat and true within $\frac{1}{16}$ " (1.5mm) over 18" (457mm). The cabinets should be affixed to each other and then secured to the back wall. In the case of a dishwasher, make sure that the surrounds of the opening of the counter will have sufficient support. The front edge of any countertop over a dishwasher should always be supported with material matching the installed cabinets to better match the kitchen.

NOTE: If cabinets do not meet the minimum standards, the installer must notify the homeowner or project manager present at the job site prior to installation of tops.

Support Below are some guidelines on installation, material, and type of supports:

- ColorQuartz must be supported on a strong perimeter frame.
- 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.

NOTE: Support is required across the top of a dishwasher space and over an under-counter oven.

Overhangs As a general guideline, support is required for overhangs of ColorQuartz. The following guidelines are for standard cabinets 24" in depth:

2CM ($\frac{3}{4}$ ")	2CM ($\frac{3}{4}$ ") with $\frac{5}{8}$ " sub top	3CM ($1\frac{1}{4}$ ")	MATERIAL SUPPORT REQUIRED
Less than 8" (200mm)	Less than 12" (300mm)	Less than 16" (400mm)	No additional support required.
8–16" (200–400mm)	12–20" (300–500mm)	16–24" (400–600mm)	Brackets required at 24" (600mm) intervals.
Over 16" (400mm)	Over 24" (500mm)	Over 24" (600mm)	Legs, Columns or Panels required at 24" (600mm) intervals.

Fitting

- Space should always be allowed as ColorQuartz needs room to expand. Each countertop requires at least $\frac{1}{8}$ " at each wall for expansion and contraction.
- When affixing the ColorQuartz surface to the supports, use only dabs of flexible silicone 8–12" apart. Extra adhesive must be placed along all joints and cutouts.
- Mechanical fasteners (screws, nails, etc.) must never be affixed directly onto ColorQuartz. Through bolting is permitted.

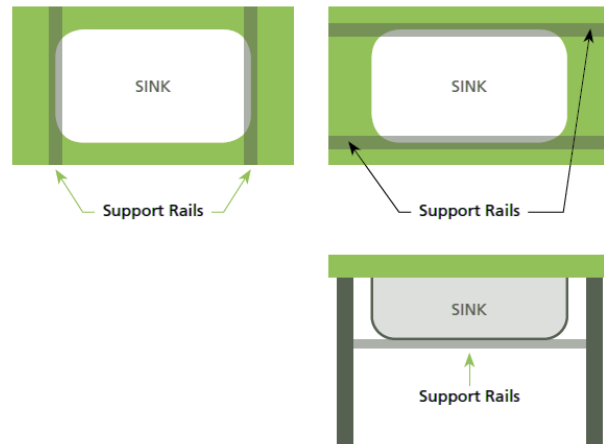
Countertop Installation We only recommend the use of 100% silicone adhesive for affixing ColorQuartz surfaces to cabinets and for all supports.

Securing of Countertops

- Fix top using dabs of silicone 8–12" apart.
- Use extra silicone on all corners, joints and around all cutouts
- Support is required on overhangs over 8" (200mm) for ¾" (2cm) thick slabs and 16" (400mm) on 1 ¼" (3cm) slabs.
- Radius all inside corners on all cutouts.
- Use color matched adhesives to join the seams.
- Do not undercut corners.
- Allow room for expansion between tops and walls.
- All cabinets must be leveled and supported prior to the installation of the tops.
- If the cabinets are on adjustable legs, please ensure that all legs are evenly tensioned to prevent any movement.

Sinks and Basins For all sink or basin installations, whether they are top-mount or under-mount, we recommend that you follow the sink manufacturers' recommendations:

- For cutouts, follow the recommendations on Page 13 of this manual. For under-mount installations, follow the minimum edge profile recommendations around the cutout to reduce the risk of chipping. Our recommended minimum edge profile is a 1/8" bevel. Our preferred minimum edge profile is a 1/8" (3–4mm) Pencil Round edge.
- Twin basin installations (Top- or Under-mount), where the tap hole is in the countertop, require extra care to ensure that there is sufficient material left for strength. Extra support is required to ensure that no cracking occurs.
- All sink cutouts must be made using drilled radius corners (minimum 3/8") to prevent stress points in the top.
- We recommend that all sink installations be fully supported independent of the ColorQuartz top. Please be sure to use a professional sink-setter or support rail system. 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.



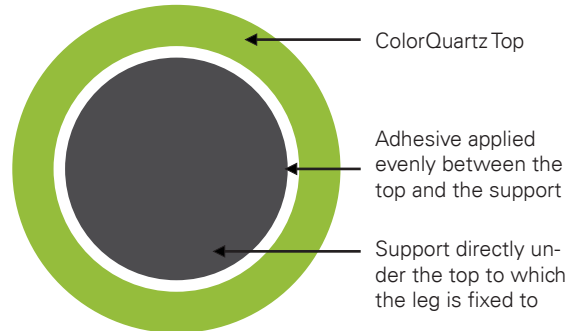
Note: Under no conditions can mechanical fasteners (screws, nails, etc.) be affixed directly to ColorQuartz.

Under-Mount Sink Installations

- All under-mount sink cutouts must have the inside edges polished to match the surface.
- All under-mount sinks should be sealed to the countertop using 100% silicone.

Table Tops If you are using ColorQuartz as a freestanding tabletop, care needs to be taken with the method by which the top is secured to the base. This is of the utmost importance when the table has only one central leg as support. A silicone adhesive may be too flexible to adequately secure the ColorQuartz top to the base.

In this situation we would recommend a stronger, more rigid adhesive be used (such as a construction adhesive like polyurethane (Sika-Flex) that is strong yet still flexible) to ensure that the top is properly secured to the base.



Wall Applications Structural requirements for ColorQuartz require that wall surfaces to be covered be sound, secure, rigid and conform to all applicable laws and engineering practices. Maximum allowable deflection is L/360 and should be uniform over the length of the span. All surfaces must be true and level within 1/8" over ten feet.

ColorQuartz recommends only the use of latex thin-set mortar adhesive or epoxy adhesive and grout for all wall applications.

All bedding and grouting mortars should be weather, frost, shock, and chemical-resistant, and meet the following physical requirements:

Compressive Strength:	Thick-bed mortar	3000 PSI Minimum
Compressive Strength:	Thin-bed, bonding, grouting mortars	500 PSI Minimum
Tensile Strength:	Thin-bed, bonding, grouting mortars	500 PSI Minimum
Water Absorption:		4%
Ozone Resistance:	200 hrs @ 200ppm	No loss of strength
Smoke Contribution Factor		0
Flame Contribution Factor		0

- The finished mortar and grout should be resistant to urine, diluted acid, diluted alkali, sugar, brine and food waste products.
- ColorQuartz can be applied over concrete, block and masonry-type surfaces, gypsum wallboard, plasters, cement backer board, plywood, asphalt, and steel with proper preparation and the use of appropriate adhesives and grout.
- ColorQuartz and its setting and grouting mortars do not constitute a waterproof barrier and should not be considered a replacement for a waterproof membrane. For information on thin, load-bearing waterproof membranes, consult your preferred supplier.
- ColorQuartz surfaces to be bonded must be free of dust, oil, grease, paint, tar, wax, curing agents, primers, sealers, form release agents, or any other deleterious substances which may act as bond barriers.

- The installer is responsible for ensuring the removal of any such contaminant prior to the commencement of ColorQuartz installation.
- All mortar additives, epoxy adhesives, and grouts should be from one manufacturer to ensure compatibility.
- All ColorQuartz should be handled in a manner to avoid chipping, breakage or the intrusion of foreign matter.
- Handle, store, mix and apply all setting and grouting materials in strict compliance with the manufacturers directions.
- Observe good stone working and safety practices at all times and comply with applicable building codes and regulations.

Finishing Touches If further construction work is to be performed at the job site after the installation of the surface is complete, ensure that the ColorQuartz surface is properly protected by covering the entire top with corrugated cardboard or another protective material.

Please make your customer aware that any successive trades must not use the new countertop as a workbench, a stepping or a standing platform, and that any trades using solvents or adhesives should take due care to avoid and / or remove any spills created by their solvents or adhesives.

We strongly recommend that your customer confirm, in writing, their satisfaction with the material and workmanship at the end of the job to cover you against damages caused by others.

Returning Slabs Any slab that is not suitable should be returned for credit or exchange. This can only be done providing the slab has not been altered in any way. If returned within seven days, no restocking fee is applied. After seven days a restocking fee may apply.

Batch Tracking Although we do our best to record all batches that are sold, it is your responsibility to maintain a record of the batch number as listed on the back of the slab. We cannot guarantee that we will always be able to supply you this information on invoices in the future.

Occupational Safety and Health Administration The Distributor has an OSHA Policy in place to ensure the safety of all persons on our premises. All visitors must observe any direction given by our staff and also follow any warning signs that are posted throughout the warehouse.

Driver Requirements

- Drivers should stay with their vehicles and ensure the slabs being loaded are suitable.
- Drivers are not to wander through the warehouse unless accompanied by an authorized person.
- Contract Drivers should be made aware of which orders are to be collected. This is especially important when there are several orders pending pickup or delivery. The Distributor will not be responsible for extra charges for goods missed on the initial delivery.

CARE AND WARRANTY

Because ColorQuartz® is non-porous, thorough cleansing with a damp cloth and mild detergent is all that's needed. Repeating once a week to maintain that clean, clear, new look is as simple and easy as it gets.

Stains or Spills Stubborn stains and dried spills can be easily removed with non-abrasive household cleaning supplies, such as Soft Scrub Liquid Gel with Bleach, damp cloths, sponges, and other non-abrasive pads. Anything a bit stickier can be quickly removed with a plastic putty knife.

Cleaning Products to Avoid Cleaning products with pH levels between 5 and 8 are the best choice for cleaning. Anything outside of this range can potentially damage your ColorQuartz® surface, but quickly neutralizing with water and wiping with a damp cloth is a quick and easy solution to harmful exposure.

Heat Resistance While ColorQuartz® is more heat resistant than other types of stone, such as granite, placing hot pads or trivets between hot cookware and your ColorQuartz® surface can prevent damage caused by rapid, extreme temperature fluctuations.

Tough, but not Indestructible Refrain from exposing ColorQuartz® to extreme stress such as cutting knives, home improvement tools, hot cookware, and abrasive chemicals. Using cutting boards, hot pads, non-abrasive chemicals are an easy way to always keep your ColorQuartz® surface clean, clear, and new.

LIFETIME RESIDENTIAL WARRANTY

If properly cared for, there should never be a problem with your ColorQuartz Surface. Quartz is an extremely hard material and will offer you one of the best solutions for your residential countertop. Please carefully read the terms and conditions of the ColorQuartz Residential Warranty.

Terms and Conditions:

- This warranty program applies to the Original Purchaser of ColorQuartz Surfaces. For a single-family home, the original purchaser refers to the Original Owner who has ColorQuartz Surfaces permanently installed in his/her residence. If the product was purchased through a builder (for a newly constructed home), the warranty applies to the First Owner of the property who purchased and installed ColorQuartz Surfaces in his/her residence. This warranty does not cover any residence where the First Owner is not the occupant.
- This warranty expires upon transfer of ownership of the property to subsequent parties. This warranty is not transferable and does not cover claims made by subsequent owners of your home.
- This warranty applies only to ColorQuartz Surfaces which have been permanently installed in an interior application and has not been removed from the original installation area(s).
- This warranty applies only to surfaces which have been maintained according to the ColorQuartz Surface Care & Maintenance Guide. This warranty does not cover damage caused by product mishandling, improper care and maintenance, impact damage, heat damage, physical and chemical abuse, and damage resulting from exposing the product to extreme weather conditions. ColorQuartz Surface Care & Maintenance Guide is available at www.ColorQuartzstone.com.
- This warranty covers ColorQuartz Surfaces that have been installed by ColorQuartz's network of Certified Fabricators and Installers who follow the guidelines and processes set forth in the ColorQuartz Fabrication and Installation Manual. It is the sole responsibility of the owner(s) of the residence(s) to ensure that Certified Fabricators and Installers are used for their projects. This warranty does not cover any improper/defective workmanship performed by any fabricator, whether certified or not, who does not follow the requirements set forth in the ColorQuartz Fabrication and Installation Manual. Please contact your area distributor(s) to inquire more about ColorQuartz's network of Certified Fabricators and Installers.
- Visual inspection of the slabs prior to fabrication is very important. Fabricators are required to perform detailed inspection of the slabs at the time of the purchase and prior to fabrication. This warranty does not cover any product defects that were visible at the time of purchase and/or prior to fabrication.
- This warranty does not cover chips, scratches, color variances, thermal shock, misuse or improper/defective fabrication. Make sure to check your ColorQuartz countertops thoroughly at the time of installation. ColorQuartz Surfaces are highly resistant to scratches, but they are not scratch proof. No cutting shall be done directly on the surface and a cutting board shall always be used. Proper care and maintenance shall be followed at all times – refer to the ColorQuartz Surface Care & Maintenance Guide.
- This warranty does not cover additional modifications or supplemental repairs such as structural changes, plumbing, electrical, cabinets, tiles, etc. that may be necessary to complete the repair or replacement of ColorQuartz countertops covered under this warranty. These material and labor costs shall be the responsibility of the customer.
- This warranty only applies to polished finishes. It does not apply to surfaces with honed and textured finishes.
- This warranty does not cover finishes that have been altered from their original ColorQuartz factory-applied finish. Any issues arising from the practice of "additional and/or in shop honing" are the sole responsibility of the fabricator who performed the process and/or the owner who purchased the original ColorQuartz Surfaces.
- This warranty does not cover any creative adjustment made to the material including bending, curving, thickness reduction, or any other alteration to the original ColorQuartz factory material.
- This warranty does not cover any failures due to inadequate support for the installation. This includes overhangs in excess of recommended support guidelines or an unsupported base.
- As ColorQuartz slabs contain natural quartz, this warranty does not cover natural variations in the color, size, and pattern movement of the slabs. These characteristics are inherent in the quartz stone. The customer is responsible to perform a visual inspection of the slabs during purchasing to ensure the selected slabs meet his/her specifications. If after or during installation, the customer decides to change colors, edging profiles or finishes, this decision is not covered under this warranty.
- Color samples provided to customers, fabricators, and installers may not match to the actual stone. ColorQuartz is made of natural quartz. Variation in color, shade, pattern, and grain size is expected of this natural product. Samples are small pieces cut from a slab; they do not display all the characteristics of the actual slab. Purchases should never be made based on samples alone. We recommend the customer to inspect and approve the actual slabs to ensure the right color is purchased.

- There may be spots and small blemishes in the stone. These are inherent in the manufacturing process and do not affect the structural integrity of the material. This warranty does not cover spots and/or blemishes smaller than 18 mm (0.705 inches) in diameter. The customer, fabricator, and installer should perform a thorough inspection of the slabs during purchasing. This warranty does not cover spots and blemishes smaller than 18 mm (0.705 inches) in diameter discovered later in the finished countertops.
- This warranty does not cover ColorQuartz products exposed to outdoor weather and climate conditions, abnormal use or conditions, or abuse in any way. Abnormal use or conditions include, but is not limited to, damage from mishandling or misuse, damage from excessive heat or exposure to weather conditions, exposure to ultraviolet light, physical or chemical abuse, and damage from improper care and maintenance. Do not use products like SOS, oven cleaners, bleach, silver cleaners, tarnish removers, or any other similar products. Do not attempt to seal the product or use any abrasive or harsh scrubbing pads. Never use paint removers, strong alkaline, acid or oxidizing substances and products with pumice.
- This warranty does not cover flooring applications.
- This warranty does not cover seam appearance and seam performance. Seam performance can fail with shifting or movement of the substrate, foundation and cabinets, or from thermal shock. Thermal shock can happen with roasting ovens, heat lamps, crock pots, griddles, electric frying pans, or any source that can create excessive heat.
- ColorQuartz is not liable for any loss of direct or indirect, consequential, incidental, punitive, or any other similar damages arising out of the use or inability to use the product in residential applications covered by this warranty. This includes but is not limited to, loss of use, loss of profits, business interruption, and/or any other losses.
- ColorQuartz is not responsible for damages or injury caused by acts of God, job site conditions, architectural and engineering changes, structural movement, acts of vandalism, and accidents that occurred at job sites that may cause damage to the material. This warranty only applies to products that have been paid for in full.
- In the event of a defect in the product, ColorQuartz USA, Inc. has the option to repair or replace the countertops. Upon the completion of inspection, ColorQuartz USA, Inc. will decide to either repair or replace the installed surface. If replacement is required, exact color matching cannot be guaranteed. If the color is discontinued at the time of repair/replacement, the customer needs to select an alternative color. This option to repair/replacement does not apply to Final Sales.
- To obtain service under this Residential Warranty, you must contact the entity who sold you ColorQuartz slabs within thirty (30) days of the failure of the product. The warranty claim must be filed within thirty (30) days.
- To claim this Residential Warranty, you must provide proof of purchase in the form of a copy of your original invoice or receipt showing the name of the owner who purchased and installed ColorQuartz products in his/her residence (First Owner). Without proof of purchase, this warranty is void.
- This Residential Warranty does not cover commercial applications for any use. Commercial use includes, but is not limited to: apartments, rental properties, hotels, offices, or any other place of business. For commercial projects, please refer to the ColorQuartz Commercial Warranty.

This Residential Lifetime Warranty applies only to slab purchases and does not apply to pre-fabricated countertops (also commonly referred as pre-mades or blanks countertops). It is the sole responsibility of the purchaser to inspect thoroughly the pre-fabricated countertops prior to any labor adjustment, fabrication, and/or installation. ColorQuartz will not recognize any claim after the pre-fabricated countertops have been installed.

All decisions regarding this warranty are to be made by ColorQuartz USA, Inc. No distributor, fabricator, installer, or any person is authorized to make any warranty statements and promises regarding ColorQuartz surfacing materials.

ColorQuartz USA, Inc. makes no other warranty, representation or guarantee, express or implied, with respect to its products, except as expressly stated herein.

10-YEAR LIMITED COMMERCIAL WARRANTY

This 10-year warranty applies to ColorQuartz Surfaces that have been installed in an interior, commercial use application. ColorQuartz USA, Inc. warrants for a period of 10 years that ColorQuartz Surfaces will be free from manufacturing defects from the date of the completion of the installation of ColorQuartz.

This is a product warranty only. ColorQuartz USA, Inc.'s obligation under the 10-year warranty covers only the replacement of the failed ColorQuartz product in slab form. It does not cover labor to remove, fabricate and/or re-install ColorQuartz products, or any other tasks necessary to complete the replacement or removal of the defective material.

Commercial property is defined as any location open to the general public for business use, properties for rental or lease, or properties designated as hotels, motels, or other temporary residence applications.

TERMS AND CONDITIONS

- This warranty is issued to the Original Owner of the commercial property who purchased and installed ColorQuartz Surfaces. This warranty expires upon transfer of ownership of the property to subsequent parties. This warranty is not transferable and does not cover claims made by subsequent owners of the commercial properties.
- This warranty applies only to ColorQuartz Surfaces which have been permanently installed in an interior, commercial application and has not been removed from the original installation area(s).
- This warranty covers ColorQuartz Surfaces that have been installed by ColorQuartz's network of Certified Fabricators and Installers. This warranty does not cover any improper and/or defective workmanship performed by fabricators and installers outside of ColorQuartz's network. Please contact your area distributor(s) to inquiry more about ColorQuartz's network of Certified Fabricators and Installers.
- This warranty applies to surfaces which have been maintained according to the ColorQuartz Surface Care & Maintenance Guide. This warranty does not cover damage caused by product mishandling, improper care and maintenance, impact damage, heat damage, physical and chemical abuse, and damage resulting from exposing the product to extreme weather conditions. ColorQuartz Surface Care & Maintenance Guide is available at www.ColorQuartzstone.com.
- This warranty does not cover chips, scratches, color variances, thermal shock, misuse or improper/defective fabrication. ColorQuartz Surfaces are highly resistant to scratches, but they are not scratch proof. No cutting shall be done directly on the surface and a cutting board shall always be used. Proper care and maintenance shall be followed at all times – refer to the ColorQuartz Surface Care & Maintenance Guide.
- This warranty does not cover additional modifications or supplemental repairs such as structural changes, plumbing, electrical, cabinets, tiles, etc. that may be necessary to complete the repair or replacement of ColorQuartz products covered under this warranty. These material and labor costs shall be the responsibility of the owner of the commercial property.
- This warranty only applies to polished finishes. It does not apply to surfaces with honed and textured finishes.
- This warranty does not cover finishes that have been altered from their original ColorQuartz factory-applied finish. Any issues arising from the practice of "additional and/or in shop honing" are the sole responsibility of the fabricator who performed the process and/or the owner who purchased the original ColorQuartz Surfaces.
- This warranty does not cover any creative adjustment made to the material including bending, curving, thickness reduction, or any other alteration to the original ColorQuartz factory material.
- This warranty does not cover any failures due to inadequate support for the installation. This includes overhangs in excess of recommended support guidelines or an unsupported base.
- As ColorQuartz slabs contain natural quartz, this warranty does not cover natural variations in the color, size, and pattern movement of the slabs. These characteristics are inherent in the quartz stone.
- Color samples provided to owner customers, fabricators, and installers may not match to the actual stone. ColorQuartz is made of natural quartz. Variation in color, shade, pattern, and grain size is expected of this natural product. Samples are small pieces cut from a slab; they do not display all the characteristics of the actual slab.
- This warranty does not cover ColorQuartz products exposed to outdoor weather and climate conditions, abnormal use or conditions, or abuse in any way. Abnormal use or conditions include, but is not limited to, damage from mishandling or misuse, damage from excessive heat or exposure to weather conditions, exposure to ultraviolet light, physical or chemical abuse, and damage from improper care and maintenance. Do not use products like SOS, oven cleaners, bleach, silver cleaners, tarnish removers, or any other similar products. Do not attempt to seal the product or use any abrasive or harsh scrubbing pads. Never use paint removers, strong alkaline, acid or oxidizing substances and products with pumice.
- This warranty does not cover flooring applications.

- This warranty does not cover seam appearance and seam performance. Seam performance can fail with shifting or movement of the substrate, foundation and cabinets, or from thermal shock. Thermal shock can happen with roasting ovens, heat lamps, crock pots, griddles, electric frying pans, or any source that can create excessive heat.
- ColorQuartz USA, Inc. sole responsibility and liability under this warranty shall be to replace the failed ColorQuartz product in slab form. ColorQuartz is not liable for any loss of direct or indirect, consequential, incidental, punitive, or any other similar damages arising out of the use or inability to use the product in commercial applications covered by this warranty. This includes but is not limited to, loss of use, loss of profits, business interruption, and/or any other losses.
- ColorQuartz is not responsible for damages or injury caused by acts of God, job site conditions, architectural and engineering changes, structural movement, acts of vandalism, and accidents that occurred at job sites that may cause damage to the material.
- This warranty only applies to products that have been paid for in full.
- In case of product manufacturing defects, exact color matching cannot be guaranteed. If the color is discontinued, the owner customer needs to select an alternative color.
- In order to obtain service under this Commercial Warranty, the owner customer must provide proof of purchase in the form of project contract showing the name of the owner of the commercial property. This warranty is not applicable without proof of original contract.

All decisions regarding this warranty are to be made by ColorQuartz USA, Inc. No distributor, fabricator, installer, or any person is authorized to make any warranty statements and promises regarding ColorQuartz surfacing materials.

ColorQuartz USA, Inc. makes no other warranty, representation or guarantee, express or implied, with respect to its products, except as expressly stated herein.

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