



2006

# Fabrication Manual

Version 1

**LG** *Viatera*

*The Timeless Elegance of Quartz Surfacing*

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# LG VIATERA INTRODUCTION

LG Viatera®, categorized as quartz surfacing, is the newest addition to the LG family of countertop surfacing products. Launched in 2004 in the US, the LG Viatera® brand has rapidly made its name in the surfacing industry due to high quality standards, experience of producing similar materials in Italy for over 20 years and the industries first, 15 year transferable warranty.

LG Viatera® is composed of 93% quartz blended with advanced polymer resins and colorfast pigments. The innovative design combined with cutting edge technology, makes LG Viatera® the highest quality quartz surfacing material available.

Unlike Granite or Marble, LG Viatera® does not need topical sealing thus allowing lasting beauty with very little maintenance. LG Viatera® appeals to those who prefer the elegant look of stone, but desire a product that is easy to maintain. Due to the innovative ways the product can be used, quartz surfacing is becoming the material of choice for design projects of all types.

## CONTACT INFORMATION

LG Viatera® is made in Italy exclusively for the sole distribution by LG Solid Source, LLC.

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**LG Viatera**  
*The Timeless Elegance of Quartz Surfacing*

# SAFETY



- Please consult your insurance company, local, state and federal regulations to make certain your organizations safety procedures comply with all relevant safety and environmental regulations.
- Ensure that all tools are grounded and when in use, away from wet locations
- Keep area well lit
- Only properly trained employees should be in the area where fabrication is taking place
- Safety glasses, gloves, ear protectors and safety shoes should be worn at all times when handling LG Viatera
- Safety glasses do not include everyday glasses as they only have impact resistant lenses

# SAFETY

Continued

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- Instruction manuals of tools should be consulted prior to operation
- Guards should be in place and in working properly at all times
- Masks should be worn at all times due to the silica in the dust
- Consult US Regulations as it relates to the amount of dust allowed in the air – respiratory program might be necessary
- Adequate ventilation is necessary when using adhesives and denatured alcohol
- Employees should avoid loose clothing, jewelry or any other item which could get caught up in the machinery

# SAFETY

Continued

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- Silica/Dust
  - Operations such as dry sawing and drilling can generate high concentrations of dust which can irritate eyes, nose and respiratory passages and in turn, cause coughing and sneezing. Dust generated during dry conversion of LG Viatera can contain particles of crystalline silica (quartz). Long-term overexposure to airborne quartz can cause silicosis, pulmonary diseases. Acute (short-term) overexposure to airborne quartz can cause irritation.

# SAFETY

Continued

- Silica/Dust Continued

- Some installations will require field fabrication - examples of this would be completing cut-outs for drop-in sinks and cook-tops and scribing to walls. In order to keep employee exposure to airborne concentrations below recommended limits, fabricators/installers should use wet tooling. However, if dry cutting is required then the use of local ventilation or respirators is recommended.

# SAFETY

Continued

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- Silica/Dust Continued

- Wet processing of quartz based products produces a reduced amount of respirable dust because wet operations prevent dust from becoming airborne. Summary of methods that will prevent exposure to silica dust:

- Use of wet processing tooling rather than dry processing tooling
- Appropriate exhaust ventilation
- Respirators with HEPA filters

# SAFETY

Continued

- Respirators

- A NIOSH approved respirator should be selected on the form and concentration of the containment in air in accordance with OSHA Respiratory Protection Standard 29 CFR 1910.134. If an air purifying respirator is appropriate, HIGH EFFICIENCY (HEPA) particulate cartridge should be used.

- Working with chemicals and adhesives

- Provide adequate ventilation when using all adhesives and denatured alcohol.

- Always follow manufacturer's safety precautions when using adhesive, denatured alcohol, and silicone.

# HANDLING & TRANSPORT

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- LG Viatera Slabs come in either 2cm or 3cm thicknesses
- LG Viatera Slabs standard size is 55"x120" and weighs approximately 470lbs per 2cm slab and 700lbs per 3cm slab
- LG Viatera preferred unloading route is with a forklift or other lifting device capable of handling at least 2000 lbs
- Carts and dollies should be used when transporting LG Viatera around the shop
- When suction cups or grips are being used, slabs should be held low to the ground
- Laminated edges should be top loaded to avoid bearing the load
- Cut-out pieces should be placed at the top of the A-Frame to prevent bearing the load

# STORAGE

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- Vertical storage is recommended (Note: Horizontal storage can put stress on the material and cause the material to break)
- Polished face or edges should not be exposed to the sun
  - Tarps can be used to cover slabs stored in direct sunlight
- Slabs should be stored face-to-face or back to back so that an unfinished side is not facing a polished side
- Strapping should be used with A-Frames to prevent flexing
- A-frames that hold finished materials and come in contact with the polished face or edge should have some protective covering to prevent scratching.

# INSPECTION

A decorative graphic at the top of the slide features a horizontal line. Above the line, there are five circles. The first circle is solid light blue and contains the word 'INSPECTION' in blue capital letters. The second circle is a white outline. The third circle is solid light blue. The fourth circle is a white outline. The fifth circle is solid light blue.

- Prior to making your first cut, inspect your slab(s) for the following:
  - Slabs are color matched and come from the same batch
  - Cracks or chips in the slab(s) and edges
  - Manufacturing Flaws
  - Warpage
  - Material Color matches the jobs work order
  - Irregularities in pattern or color
- **If problem areas can not be worked around, please contact your LG Viatera distributor for advisement prior to cutting into the material**

# MEASURING & TEMPLATING

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- *MEASURING*

- Detail dimensions and locations should include:
  - Cutouts, overhangs, splashes, faucet holes, interior cabinet dimensions, countertop dimensions, edge sizes, seam locations etc.

- *TEMPLATING INFORMATION*

- Templates should reflect the following:
  - Appearance of the overall counter to be made
  - Templates can be made of actual counter size or of cabinet units
  - Edge details

# MEASURING & TEMPLATING

Continued

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- *TEMPLATING INFORMATION CONTINUED*

- Location of finished edges
- Windowsill dimensions
- Sink location and model information
- Stove location and model information
- Overhang locations
- Faucet hole location(s) and sizes
- Seam locations
- Material color

# FABRICATION DETAILS

- *GENERAL FABRICATION GUIDELINES*

- Inspect materials before beginning any conversion of slab goods
- LGSS recommends water cooled tools to cut or polish LG Viatera
- Seam placement
  - Seams should not be placed over the dishwasher or in finished sink cutouts
- Cutouts
  - Radius corners are recommended on all cutouts. However, square corners are permitted on cooktop and sink cutouts as long as they are square and the cut does not extend past the cutout perimeter into the material.

# FABRICATION DETAILS

- Cut Outs Continued

- At least 1/8-inch clearance space must be left on sides to allow for cooktop/sink expansion.
- Check the manufacturer's installation instructions for size opening and clearance required for stove tops and sinks

# FABRICATION DETAILS

Continued

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## ○ Lamination

- When laminating materials together to produce a thicker edge any variation in the back side slab must be grinded to an even flat surface prior to adhering together
- Material must be cleaned with denatured alcohol prior to lamination
- Adhere lamination seams with 2-part epoxy or acrylic adhesives
- Lamination lines should not exceed 1/16"
- No voids should exist in lamination lines
- Lamination lines should be filled with color coordinated adhesive
- Lamination lines will be visible

# FABRICATION DETAILS

Continued

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- Polishing of Edges
  - Exposed edges around refrigerators or slide-in ranges should be polished
  - Underneath side of all polished edges should be eased
  - Polish on edge should be consistent throughout installation
  - Edge should not appear white or milky in appearance
  - A smooth transition between seamed pieces should exist

# FABRICATION DETAILS

Continued

## ○ Polishing of Edges Continued

<u>GRIT</u>	<u>POLISHING PAD COLOR</u>
50	Lime Green, Fluorescent
100	Red
200	Yellow
400	Light Blue
800	Green
1500	Orange
3000	Pink
Alpha Pad	White or Black*

\* Use the black pad for dark materials and the white pad for light materials

# INSTALLATION

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- *GENERAL REQUIREMENTS*

- LG Viatera is not recommended for exterior applications. Materials used for exterior applications are void of any warranty coverage.
- Gaps between installed countertop and each wall must be a maximum of 1/8”.
- Use flexible adhesive to fasten countertops to the support.
- Do not rigidly adhere LG Viatera to other products.
- Apply backsplashes using flexible adhesive.
- Never install mechanical fasteners directly into materials.
- Do not install LG Viatera over old countertops.

# INSTALLATION

continued

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- *CABINET PREPARATION*

- Verify that the cabinets are flat (within 1/16" in 10'0")
- Use shims to make required adjustments to make cabinets flat
- If replacing countertops all screws, nails and sharp objects should be removed.
- Existing base units should be checked for stability and strength. If any remedial work is required it should be conducted at this time.
- Cabinets should be installed completely before proceeding

# INSTALLATION

continued

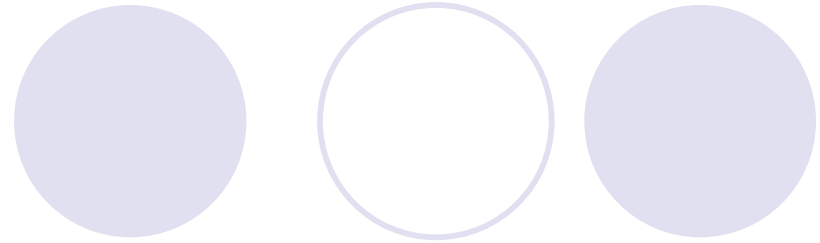
- *SUPPORT REQUIREMENTS*

- 2 cm support:

- Countertops should be supported along the outer perimeter and front-to-back every three feet
- Support strips or solid substrate are acceptable.
- Support strips should be cut a minimum of  $\frac{3}{4}$ " (in width) around cutouts and an  $1\frac{3}{4}$ " (in width) to support the deck.

# INSTALLATION

continued



- 2 cm support Continued
  - All seams in the countertop should be supported with build-up strips that extend past seamed area by 2” on both sides of seam.
  - All cut-outs should have additional front-to-back support within 1 to 3 inches of the cut-out.

# INSTALLATION

continued

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- 3 cm support:

- For structures with support on 4 sides and depths <26 inches, outer perimeter support is sufficient.
- For structures with support on 4 sides and depths >26 inches, additional front to back support is required every 36" in addition to the perimeter support.
- All seams in the countertop should be supported with build-up strips that extend past seamed area by 2" on both sides of seam.

# INSTALLATION

Continued

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- *“DRY FIT”*

- Position the LG Viatera slabs on the cabinets
- At each wall location, ensure the gap does not exceed 1/8” clearance
- Make note on the material where scribing needs to occur
- Check the seam fit and adjust where appropriate with the use of shims
- Check the squareness of the pieces and make sure the pieces fit flush
- Ensure the dimensions from the cabinet edge to the countertop edge are consistent through the entire length of the top

# INSTALLATION

Continued

- *“DRY FIT” CONTINUED*

- Check for gaps and adjust accordingly
  - Use masking tape to protect the top prior to cutting
  - Draw a line on the tape where the cut needs to take place to remove the gap(s)
- Verify the location of the appliance cut-out and reference the manufacturers specifications for placement of appliance in cutout
- Remove countertops and perform the necessary steps for field fabrication

# INSTALLATION

Continued

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- *“DRY FIT” CONTINUED*
  - Check for gaps and adjust accordingly
    - Use masking tape to protect the top prior to cutting
    - Draw a line on the tape where the cut needs to take place to remove the gap(s)
  - Verify the location of the appliance cut-out and reference the manufacturers specifications for placement of appliance in cutout
  - Remove countertops and perform the necessary steps for field fabrication

# INSTALLATION

Continued

- *FIELD FABRICATION*

- Cutting

- Masking tape should be installed where scribing is required
- A line should be noted which reflects the cutting line
- Diamond blades should be used to cut materials
- It is recommended to use wet tooling when working with LG Viatera materials

- Cutouts

- Refer to the manufacturers specifications for cut out size opening and clearance requirements
- Masking tape should be adhered around the area of the cutout and the dimensions traced on the tape

# INSTALLATION

Continued

## ○ Cutouts Continued

- Initial cut should be from the center of the cutout and the saw should be used in a pulling motion versus a pushing motion
  - Continuous rim, diamond blade should be installed on the saw
- Cutout should stop approximately ¼” from the line
- Left over material should be grinded to install radius corners
- Cooktops must be 2 ½” minimum in the front and 1 ½” minimum in the back
- In Undermount sink applications, a perimeter build-up using 5/8” MDF or plywood needs to be installed around the sink cut-out

## ○ Edges

- Edges should be smooth and all exposed edges should be polished

# INSTALLATION

Continued

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- *SINK INSTALLATION*

- Drop-In Sinks

- There should be a minimum of 2 ½” space from the front of the sink to the lip of the LG Viatera
- Edges need to be cleaned with denatured alcohol
- 100% silicone should be applied to the deck of the LG Viatera
- Sink can be dropped in ensuring that it is square with the countertop edge

# INSTALLATION

Continued

## ○ Cast Iron Undermount Sink

- Build-up should be installed around the perimeter of the sink using 5/8" MDF or plywood
- Support strips should be installed outside the brackets from front-to-back
- Sink should be adjusted so it is flush with the support strips – remove sink
- Sink flange should be cleaned with denatured alcohol before color-matched silicone sealant is applied

# INSTALLATION

Continued

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## ○ Cast Iron Undermount Sink Continued

- Undermount sinks with pre-drilled holes must have the back a minimum of 1 ½” clearance
- Undermount sinks without pre-drilled holes must have the back a minimum of 4 ½” clearance
- Verify hole dimensions which are usually either 1 ¼” or 1 ½”
- Joints should be completely filled before the excess is removed with denatured alcohol
- Install the leveling brackets per the manufacturers recommendation

# INSTALLATION

Continued

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## ○ Stainless Steel Undermount Sink

- Sink should be adjusted so it is flush with the support strips – remove sink
- Apply a generous amount of silicone to the build-up
- Build-up should be installed around the perimeter of the sink using 5/8” MDF or plywood
- Support strips should be installed outside the brackets from front-to-back
- Sink flange should be cleaned with denatured alcohol before color-matched silicone sealant is applied

# INSTALLATION

Continued

## ○ Stainless Steel Undermount Sink Continued

- Undermount sinks with pre-drilled holes must have a minimum of 1 ½” clearance in the back
- Undermount sinks without pre-drilled holes must have a minimum of 4 ½” clearance in the back
- Verify hole dimensions which are usually either 1 ¼” or 1 ½”
- Set the sink and apply a bead of color-matched silicone sealant to the inside of the sink flange
- Install the leveling brackets per the manufacturers recommendation

# INSTALLATION

Continued

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- *FINAL FIT*

- Lay the countertops on the cabinet to ensure proper fit
- Verify the tops are level

- *INSTALLATION*

- Set pieces in place and adjust seams with shims
- Install under mount sink if applicable
- Pull pieces apart so that silicone can be applied to the substrate
- Apply dime-sized dabs of silicone caulk every 12 to 18 inches on the substrate

# INSTALLATION

Continued

- *SEAMING MATERIALS*

- Jointed area should first be cleaned with denatured alcohol.
- Apply masking tape parallel to the seamed area. (Masking tape facilitates clean-up and allows for shrinkage of adhesive).
- Apply hardener to knife grade polyester resin
- Apply resin to the front, middle and back portions where the two pieces touch
  - Ease pieces together until they touch one another
  - Apply clamps and make final adjustments
  - Seam width should not exceed 1/8" of an inch

# INSTALLATION

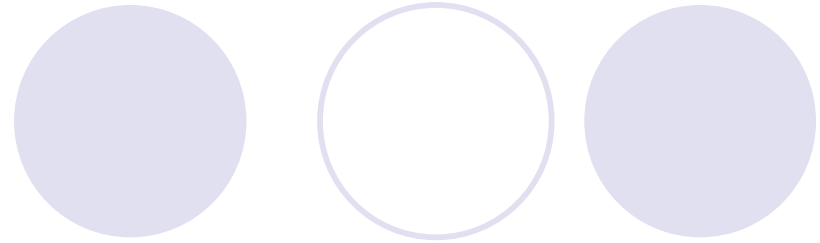
Continued

## ○ Seaming Continued

- Variation in height should not exceed 1/32"
- Wait for adhesive to dry for approximately 15 minutes or until dry to the touch
- Scrape away any extra adhesive from the surface
- Remove clamps from the piece
- Apply color-coordinating resin to the seamed area
- Fill in entire seam
- Wait for adhesive to dry

# INSTALLATION

Continued



## ○ Seaming Continued

- Remove tape and scrape adhesive from the surface of the piece(s) using a razor blade
- Wipe down seamed area with denatured alcohol to remove any leftover residue
- Mix polyester resin with pigments to match the color of the piece.  
(**Note:** Follow manufacturer's instructions on mixture of pigment and hardening paste with the resin.)

# INSTALLATION

Continued

## ● *SPLASH INSTALLATION*

- Place the splashes on the countertop and verify the correct fit
- Make sure the wall is flat with no irregularities in the surface
- Clean area of installation from dust and debris
- For Full-Height backsplashes, electrical outlet dimensions need to be verified and holes need to be cut to accommodate the outlets
  - Ensure that space is allowed for the outlet cover
- 100% silicone can be used to adhere the backsplash to the wall
- Apply dime-sized dabs of silicone to the back

# INSTALLATION

Continued

## ● *SPLASH INSTALLATION CONTINUED*

- Excess adhesive or epoxy needs to be removed
- Entire surface needs to be cleaned with denatured alcohol
- Caulk should be where LG Viatera meets LG Viatera, walls and cabinets
  - Caulk is to be applied using a caulking gun
  - Use your finger to penetrate the caulk between the cracks
  - Excess caulk should be removed using a razor blade
- Excess adhesive or epoxy needs to be removed
- Entire surface needs to be cleaned with denatured alcohol

# INSTALLATION

Continued

- *SPLASH INSTALLATION CONTINUED*

- Clean the contact surface of backsplash with denatured alcohol
- Apply dime-sized dabs of silicone to the back
- Leave a 1/16" between the countertop and the backsplash
- Caulk joints between pieces of splash and countertop with color coordinated caulk

# INSTALLATION

Continued

- *FINAL VERIFICATION*

- All exposed corners should be checked to ensure proper radius dimensions
- Polishing should be consistent throughout the installation
- Ensure all gaps have been adequately filled with color match material
- Make sure all edges are flush and smooth to the touch
- Cabinets, floors, walls etc. should be wiped down

# INSTALLATION

Continued

- *FINAL VERIFICATION Continued*

- All work areas should be cleaner than before the work started
- In situations where other contractors have additional work to do, cover the countertops to prevent accidental damage
- Warranty and product information should be left at the job site (preferably, warranty card should be filled out during installation and sent in immediately)

# SAFETY EQUIPMENT

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- Safety Glasses
- Safety Shoes
- Gloves
- Dust Masks
- Ear Plugs
- Safety Belts
- Consult State, Local & Federal Safety Requirements

# TOOLING

- Variable Speed Grinder
- Diamond Blades
- Diamond Hole Saw
- Hammer Drill
- Diamond Core Bits
- Wood Core Bits
- Stone Bits
- Wet Polisher
- Hand Diamond Pads
- Wet/Dry Vacuum
- 9" Suction Cups
- Circular Saw for Wood
- Extension Cords

- Large and Small Level
- Large and Small Square
- Tape Measure
- Caulking Gun
- Grinder Stone
- Shims
- Straps
- Power Strips
- Jig Saw
- Pliers
- Crescent Wrench
- Masking Tape
- Rags

# TOOLING

Continued

- Epoxy
- Colorants
- denatured alcohol
- Hand Saw for Wood & Sheetrock
- Chisel for Stone & Wood
- Brushes
- Spatulas
- Hammer
- 9" Suction Cups
- Paper Towels
- Putty Knives
- Drop Cloths
- 5/8" MDF or Plywood
- C Clamps
- Razor Blades
- Screwdrivers
- Cups
- Sticks
- Denatured alcohol
- Silicone
- Steel Wool
- Color Match Kit
- Nails
- Scribe
- Screw Gun
- Glue Gun & Sticks

# TEST DATA

## Technical Data of Quartz Engineered Stone

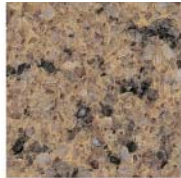
Test Type	Standard	Standard of measurement	Trafficstone
Water Absorption	pr EN 14617-1 ASTM C97	%	0,06-0,05 0.0514
Thermal Expansion	EN 103:1982	$10^{-6} \text{ }^{\circ}\text{C}^{-1}$	20-30
Moh's Hardness	EN 101	Mohs	6-7
Density	pr EN 14617-1 ASTM C97	$\text{kg/m}^3$	2350-2450 2422
Resistance to Fire	DIN 4102	-	B1
Compression Resistance	pr EN 14617-5 ASTM C170	$\text{MP}_a$	235-250 189
Flexural Strength Module	pr EN 14617-2 ASTM 648	$\text{MP}_a$	30-60 6100
Resistance to Abrasion	EN 102 ASTM C241	$\text{mm}^3$	120-180 4810
Slippage Resistance	DIN 51130	-	lev. 320= R9
	ASTM 1028	-	honed 320 = R9 1.2064
Impact Resistance (thickness 20 mm)	pr EN 14617-9	joule	5±2
Chemical Resistance	pr EN 14617-10		cl. C4

# MSDS SHEET

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Update Coming Soon

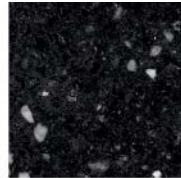
# 2006 Color Palette



Morobe



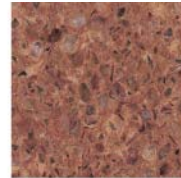
Solano



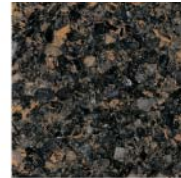
Abyss



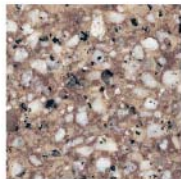
Vienna



Valencia



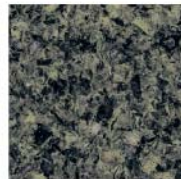
Oro Noir



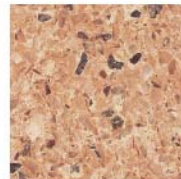
Morocco



Sapporo



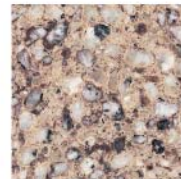
Sherwood



Sedona



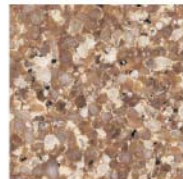
Santiago



Palermo



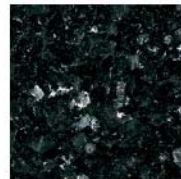
Trentino



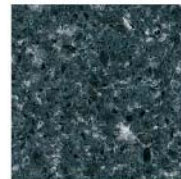
Tenerife



Sao Paulo



Odessa



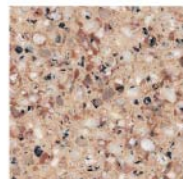
Curacao



San Tropez



Cairo  
(Honed Finish)



Cabo

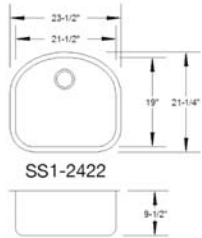


Oahu



Geneva

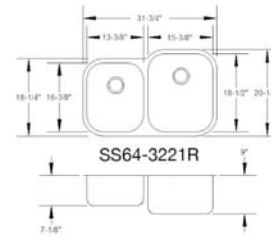
# 2006 Sink Offering



SS1-2422



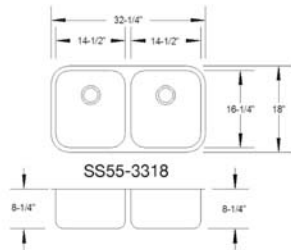
18 G.A.



SS64-3221R



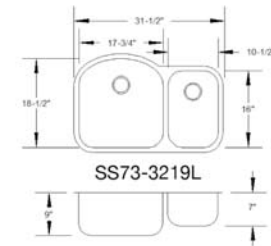
18 G.A.



SS55-3318



18 G.A.



SS73-3219L



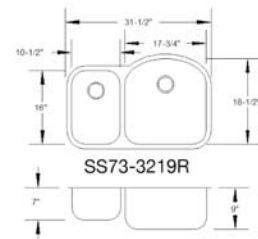
18 G.A.



SS64-3221L



18 G.A.



SS73-3219R

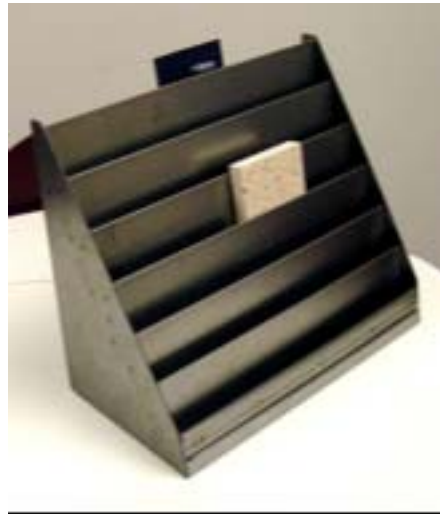


18 G.A.

# 2006 LITERATURE & SUPPORT ITEMS



Floor Rack



Counter Rack



Booklet



Brochure

# WARRANTY

## Viatera® Residential/Commercial 15-Year Warranty

LG Solid Source, LLC offers a 15-year limited warranty on LG Viatera® quartz surfacing, warranting that the material will be free of manufacturing defects. This warranty covers failures caused by product defects which may occur during the first fifteen years after the original installation. If a defect in the material is identified during the fifteen year period LG Solid Source will, at its option repair or replace the defective LG Viatera® materials in accordance with the following warranty provisions and exclusions.

### Terms and Conditions

1. The 15 year limited warranty applies to LG Viatera® quartz surfacing materials only ; and
2. The 15 year limited warranty applies to LG Viatera® quartz surfacing materials that have been fabricated and installed using the Fabrication Guide Book for transportation, storage, handling, fabrication, installations, and maintenance. Improper fabrication or installation is the responsibility of the fabricator/installer ; and
3. This warranty applies to LG Viatera® quartz surfacing materials that have been installed originally and have not been moved from the original installation.

### Exclusions

This warranty shall not apply to :

1. damage caused by faulty or improper installation, including seams and seam performance ;
2. damage caused by any instability occurring in the property in which the product has been installed ;
3. damage caused by any materials that have been removed or relocated from its original place of installation ;
4. damage caused by any physical abuse, exposure to excessive heat, accidents or misuse ;
5. the Products installed with known or visible manufacturing defects at time of installation, including but not limited to color variance ;
6. the other repairs and modifications, including but not limited to, plumbing, electrical, tile, cabinets that may need to be replaced to properly repair or replace the LG Viatera® Quartz surfacing materials ;
7. Outdoor applications.

LG Solid Source is not responsible for damage or injury caused in whole or part by acts of God, job site conditions, architectural or engineering design, structural movement, acts of vandalism or accidents.

This warranty is extended to the original purchaser and may be transferred or assigned. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered. If transferred, a new warranty registration must be submitted with proof of the original warranty. The new warranty will be valid for the remaining time since the original purchase.

No other express or implied warranties of merchantability or fitness for a particular purpose are made by this warranty except for those expressly provided herein. Under no circumstances shall LG Solid Source be liable for any loss or damage arising from the purchase, use or inability to use this product, or for any special, indirect, incidental or consequential damages. In no case will LG Solid Source be liable for labor to remove and/or reinstall LG Viatera®, or other similar activities necessary to complete the replacement or removal of the defective material.

This warranty entitles the purchaser to specific legal rights. Other rights may also be available, which may vary from state to state. Some states do not permit the exclusion or limitation of implied warranties or of incidental or consequential damages, so the above limitation or exclusion may not apply to you. To know what your legal rights are, consult your local or state consumer affairs office or your state's Attorney General.

To obtain service under this warranty, please contact the source from which you purchased your LG Viatera® product. If the problem is not handled to your satisfaction, please contact our representative directly by writing or calling:

**LG SOLID SOURCE, L.L.C.**  
8009 W. Olive, Peoria, AZ 85345  
Phone: (877) 853-1805 or (623) 776-7373  
[www.lgviatera.com](http://www.lgviatera.com)

Please include your name, address, a description of the problem, and the phrase "LG Viatera®, 15 year limited warranty" in all correspondence. We will respond to all inquires within 30 days.