





# LOTTE CHEMICAL

Originally established in 1954 as Cheil Industries, the Samsung Group launched its chemical-business units in 1988 as part of an overall business expansion strategy.

In 1992, the company commenced the manufacture of acrylic solid surface products marketed under the "Staron" brand, followed by the introduction of the Tempest Collection launched in 2006. The Samsung Group further expanded its decorative surfaces portfolio by introducing Radianz® Quartz Surfaces in 2009.

With its drive to become a global supplier of top-tier decorative surfacing materials, LOTTE Chemical Corporation launched LOTTE Advanced Materials in May of 2016 through its acquisition of Samsung Chemical.

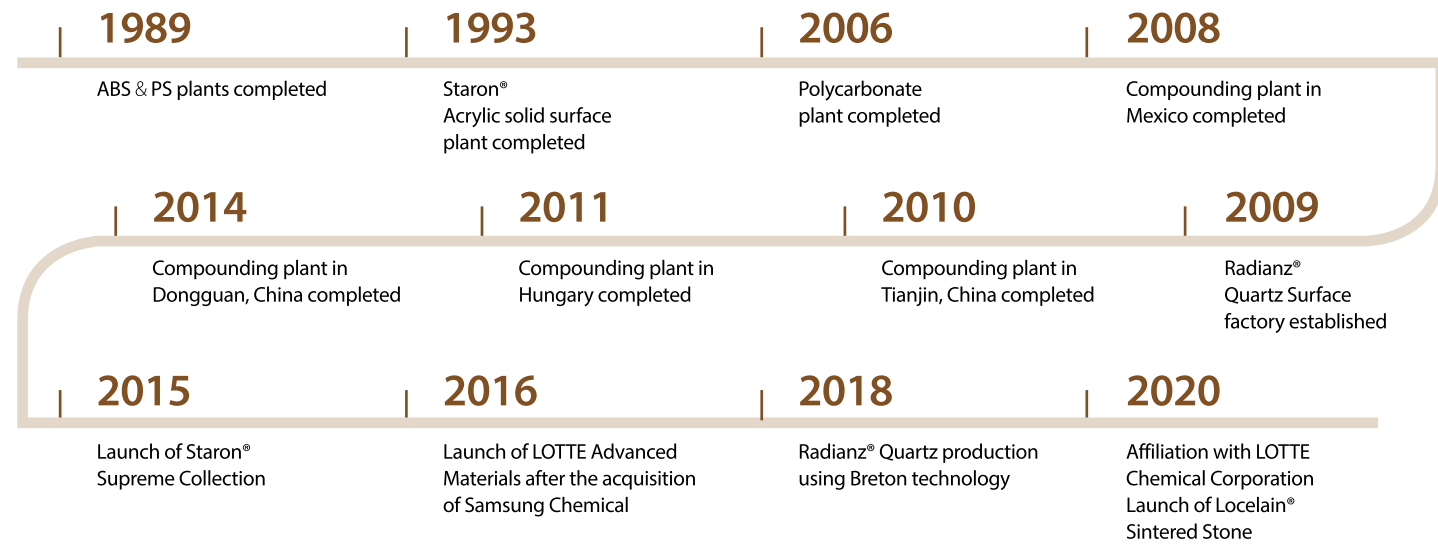
In 2020, LOTTE Advanced Materials has reached a new milestone with its affiliation with LOTTE Chemical Corporation. LOTTE Chemical pursues sustainable growth with outstanding performance in today's surface industry through cutting-edge technology and insight into global market trends.



**High-quality materials, refined sensibilities.**

# 2020 LOTTE CHEMICAL

LOTTE CHEMICAL built up ABS and PS plants in 1989, signaling its first major step into the market. Since then, the company has been expanding its business rapidly in a variety of categories including PC.



*Radianz*®  
NATURAL QUARTZ SURFACE

**staron**®  
ACRYLIC SOLID SURFACE

*Locelain*™  
SINTERED STONE

**TOTAL SOLUTION PROVIDER OF  
DECORATIVE SURFACES**

**starex**®  
ABS | ABS ALLOY | ASA | EPS | SAN

**INFINO**®  
PC | PC ALLOY | PBT | mPPE | PA | PPA | PPS | PCT | TPE





**RADIANZ,  
ADVANTAGES THAT GO  
BEYOND THE SURFACE.**

## **RADIANZ, PREMIUM QUARTZ SURFACES**

Comprised of high-density natural quartz, Radianz emulates the sophisticated aesthetic of natural stone, while its advanced composition provides qualities that are unobtainable with granite or marble. Its nonporous, scratch- and heat-resistant surface makes it an ideal material for healthcare, hospitality, food service and residential applications.

### **KEY FEATURES**

- Nature inspired aesthetics & appearance
- Controlled color consistency and superior durability using Breton technology
- Extensive range of colors and patterns

### **APPLICATIONS**

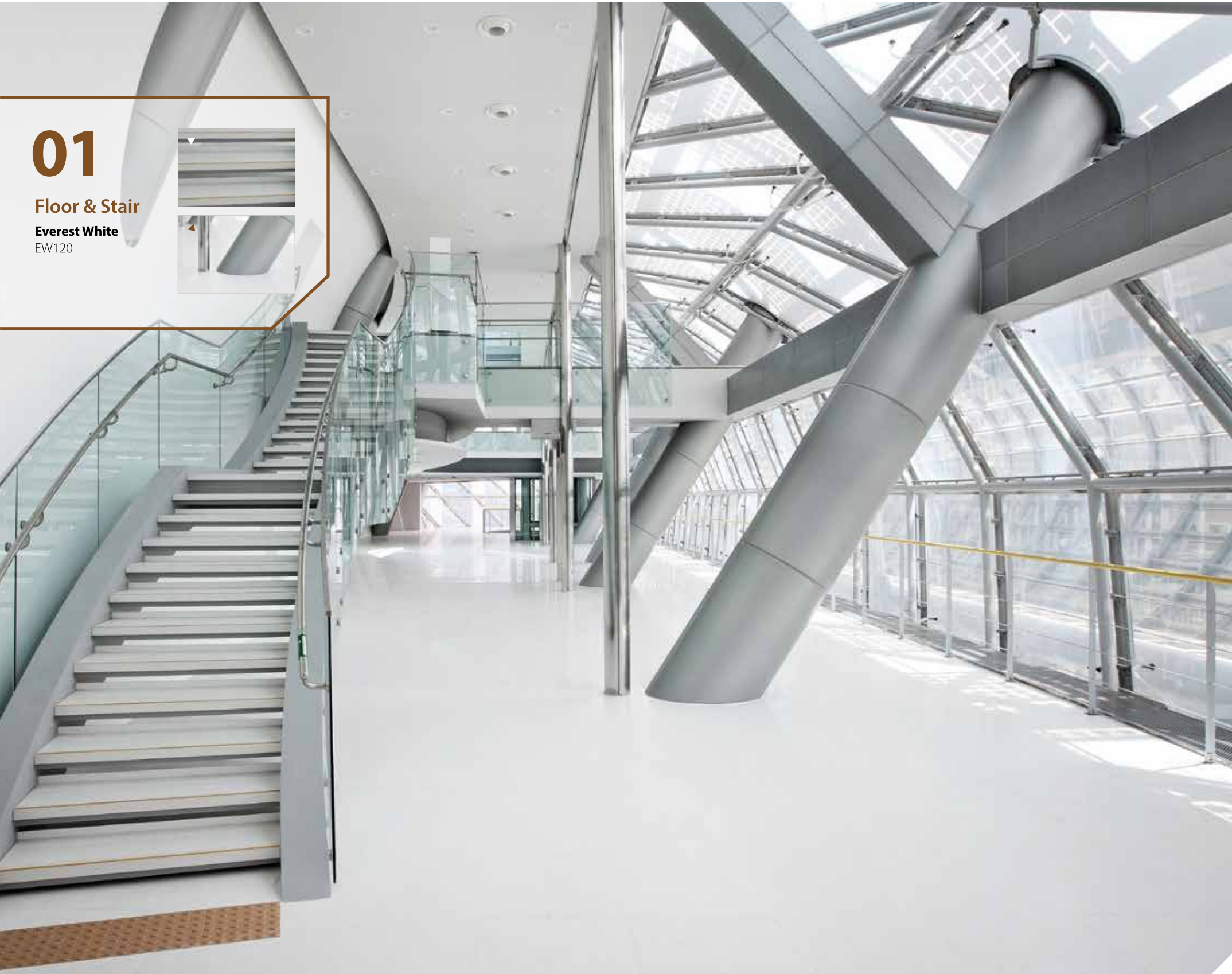
- Countertops / Vanity tops
- Lavatories and public restrooms
- Contract furniture / Conference tables
- Reception desks
- Transaction counters
- Food service and beverage counters
- Displays and fixtures
- Window sills / Wall caps

# COMMERCIAL & PUBLIC SPACES

Radianz® Quartz Surfaces from LOTTE Chemical features a wide range of trending colors with an ultra-durable material designed for high-traffic environments, such as hotels, lounges, bars, and restaurants.

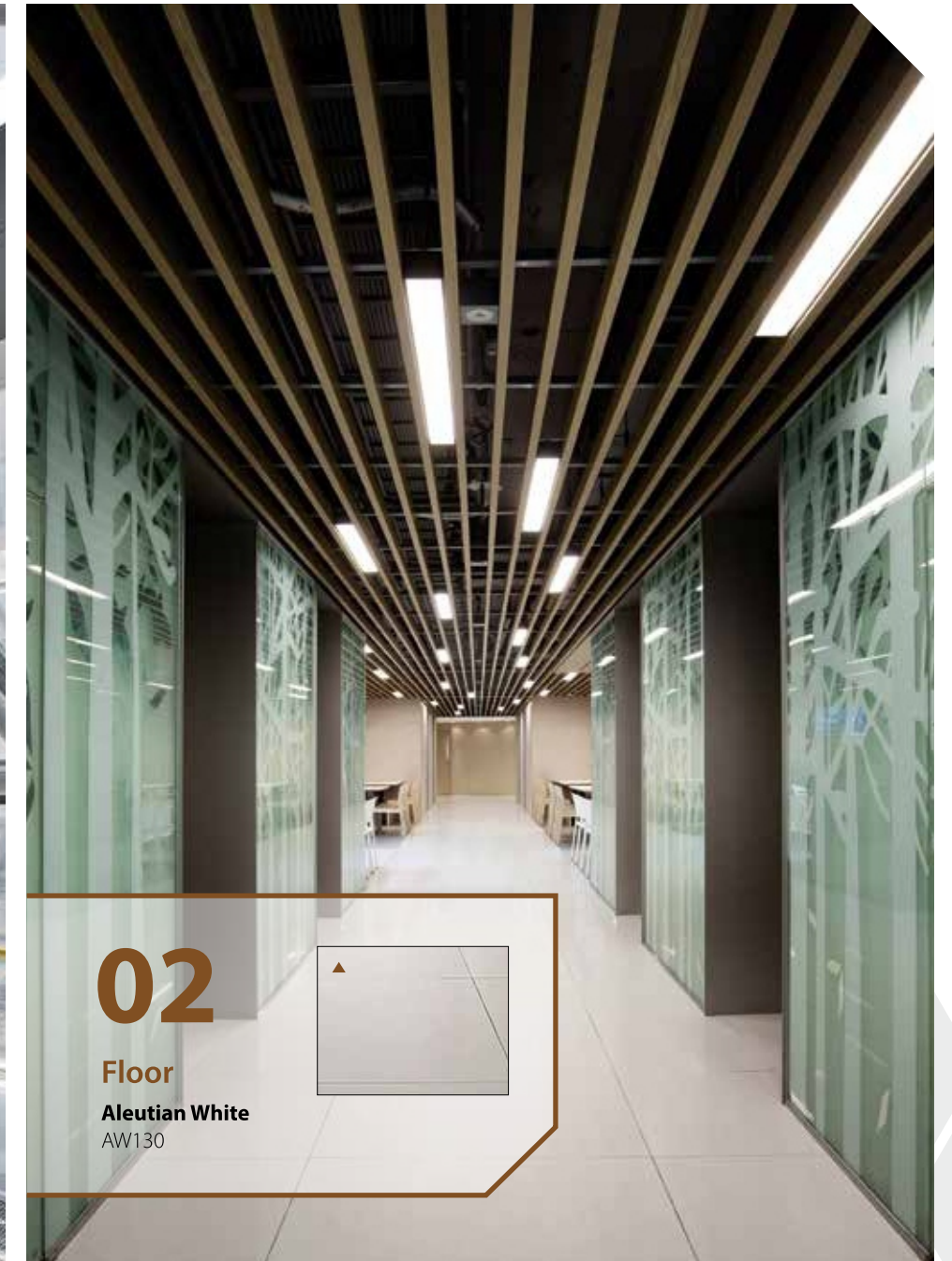
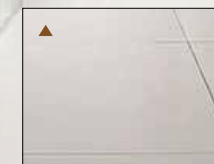
01

Floor & Stair  
Everest White  
EW120



02

Floor  
Aleutian White  
AW130





**03**

**Floor**  
**Aleutian White**  
AW130



**05**

**Floor & Countertop**  
**Aleutian White**  
AW130



**04**

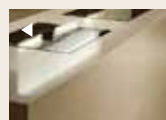
**Stair**  
**Whitney Gray**  
WG722



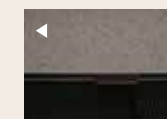
**06**

**Tabletop**  
**Everest White**  
EW120





**07**  
**Countertop**  
**Bristol Beige**  
 BB227



**09**  
**Bathroom**  
**Countertop**  
**Antigua Beach**  
 AN230



**08**  
**Countertop**  
**Kunlun Ink**  
 KI992

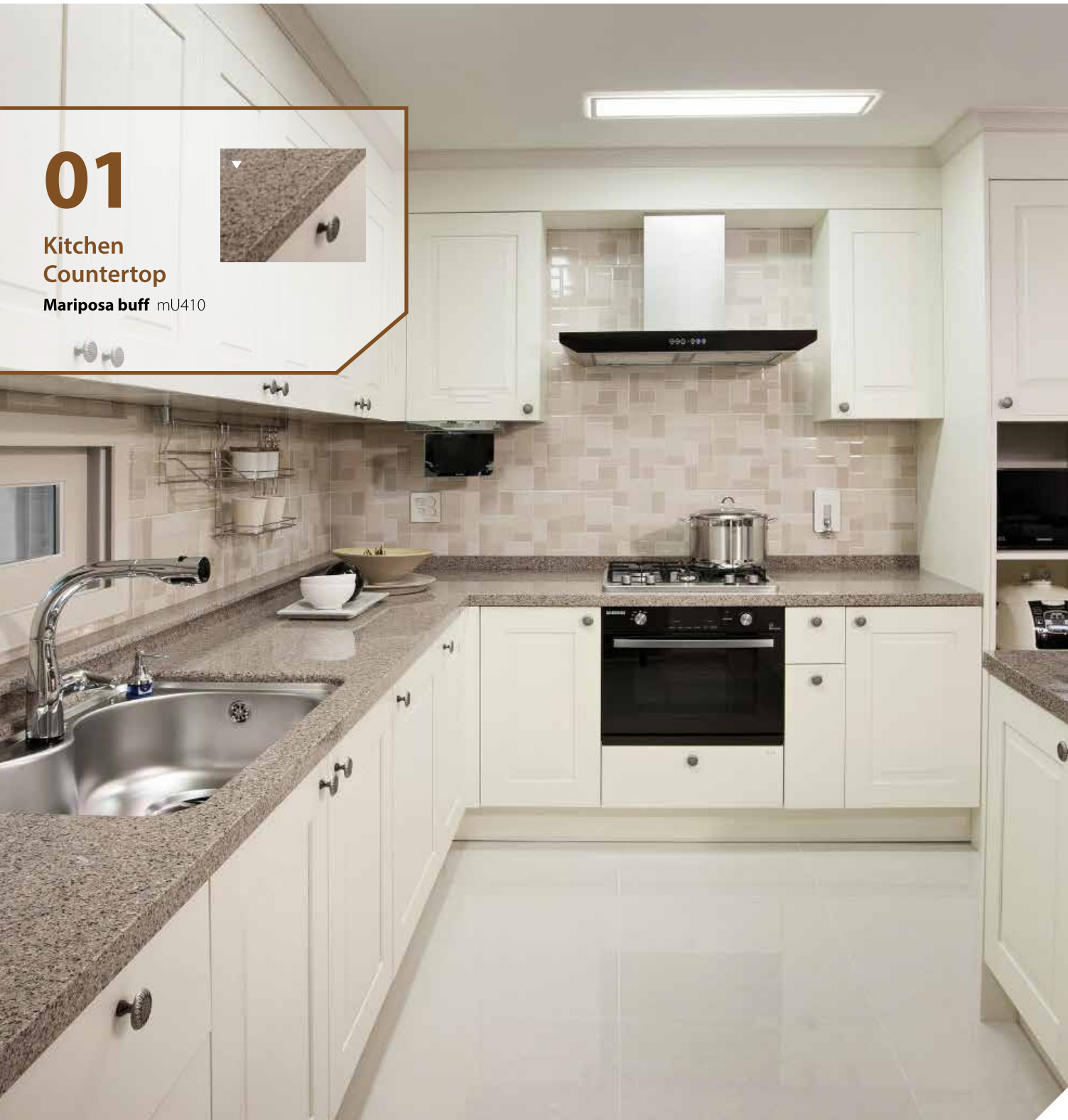


**10**  
**Bathroom**  
**Countertop**  
**Ural Gray**  
 UG950



# RESIDENTIAL SPACE

Comprised of high-density, color-controlled natural quartz, Radianz® eliminates many of the inherent limitation of stone through state-of-the-art technical solutions. Its non-porous, durable, and heat-resistant surface makes Radianz® an ideal material for both comfort and beauty in your residential space.







**04**  
Kitchen  
Countertop  
**Mariposa Buff**  
mU410



**06**  
Kitchen  
Countertop  
**Mirama Bronze**  
mi780



**05**  
Kitchen  
Countertop  
**Diamond White**  
DW105



**07**  
Powder  
room  
Countertop  
**Adirondack Birch**  
AB144





**08**  
**Bathroom  
 Countertop**  
**Cumberland Flax**  
 CF350



**10**  
**Tabletop**  
**St. Helens White**  
 Sh145



**09**  
**Entrance  
 Floor**  
**Mariposa Buff**  
 mU410  
**Mont Blanc Snow**  
 mS141



**11**  
**Tabletop**  
**Everest White**  
 EW120



# URBAN SERIES PROPOSAL

Ongoing collaboration with color trend experts guides us in the development of innovative surface options architects and designers have come to appreciate. Urban Series is a collection of sleek and refined Radianz® colors that add a contemporary finish to an interior space.

## 1. From Concrete Urban / Modern / Simplicity / Neutral



Durable, modern, essential – find the perfect color palette for creating a modern, minimalistic ambience.

## 2. Urban Outlook Urban / Powerful & Essential / Cosmopolitan





## THE CIRRUS COLLECTION

By incorporating Breton technology, the Radianz® product assortment has expanded to include the new Cirrus Collection of stylized, random-veined patterns, providing a high-performance quartz surface emulating the natural aesthetic of marble. Find the balance between personal style and practicality within the color variety Radianz® Cirrus Collection has to offer.

### Nature's Art & Movement



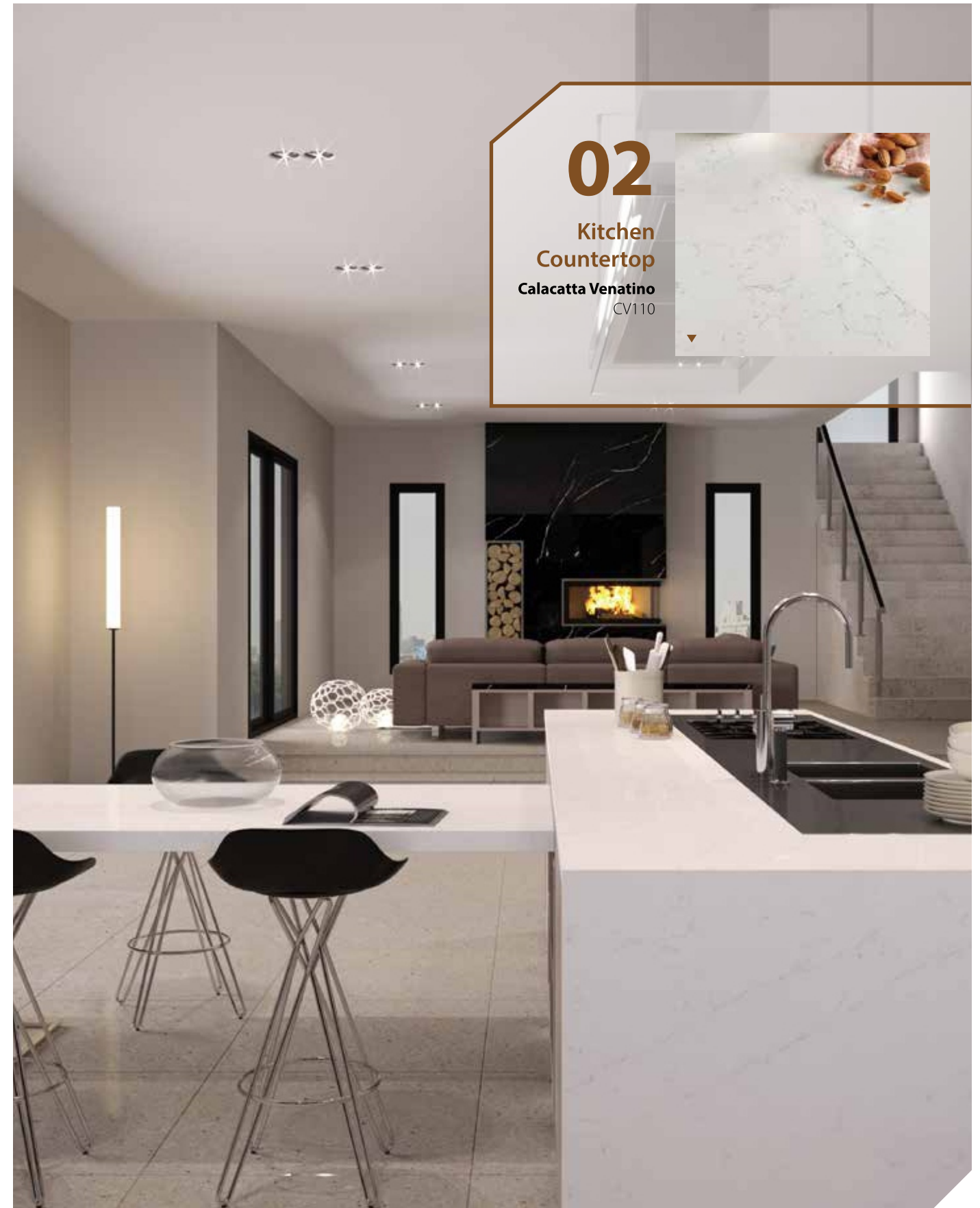
# 01

**Kitchen Countertop**  
Acacia AC711



# 02

**Kitchen Countertop**  
Calacatta Venatino  
CV110





**03**  
**Kitchen**  
**Countertop**  
**Divine** DI180



**05**  
**Kitchen**  
**Countertop**  
**Ashford Fog** AF953



**04**  
**Kitchen**  
**Countertop**  
**Verona Verde** VV254



**06**  
**Kitchen**  
**Countertop**  
**Sequoia** SE155



**07**

**Kitchen  
Countertop**  
Modern m0799



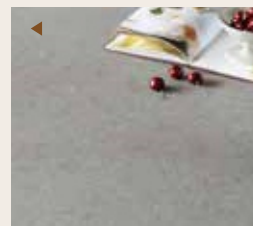
**09**

**Bathroom  
Wall Cladding**  
Starlight ST740



**08**

**Kitchen  
Countertop**  
Contrail CO811



**10**

**Kitchen  
Countertop**  
Volga VO255



# NEW COLORS

## CIRRUS COLLECTION



**Annapuruna**  
AP120



**Alluring**  
AL450



**Calacatta Dolce**  
CD150



**Pristine**  
PG126



**Andes**  
AD123



**Statuario Massa**  
Sm160



**Calacatta Classic**  
CV110



**Calacatta Ice**  
Ci180



**Splendor**  
SP850

# COLORS OF RADIANTZ

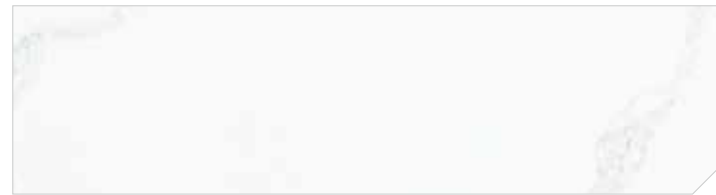
## CIRRUS



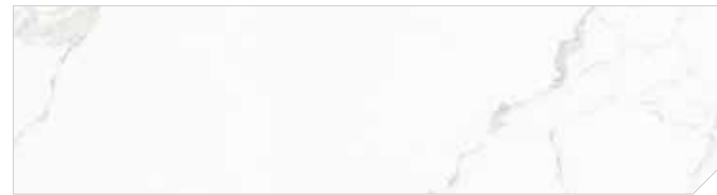
**Calacatta Ice** Ci180



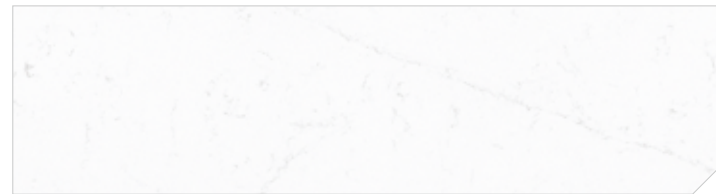
**Calacatta Classic** CV110



**Calacatta Dolce** CD150



**Quario Massa** Sm160



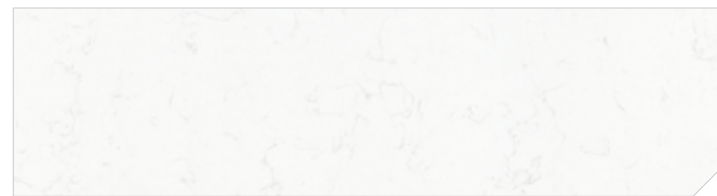
**Calacatta Venatino** CV110



**Calacatta Verona** CV120



**Interstellar** iN170



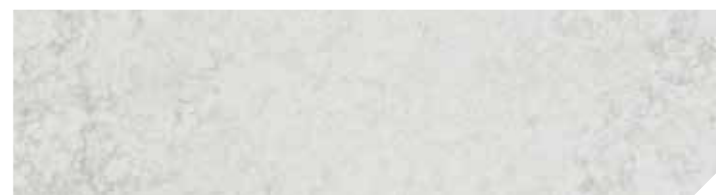
**Divine** Di180



**Vega** VE150



**Cadiz** CD760



**Starlight** ST740



**Mapuruna** AP120

Inspired by high-altitude sweeping clouds, the Cirrus Collection features dynamic, flowing patterns that create a tranquil, organic design; its classic, marble-like appearance creates the impression of timelessness and permanence. Comprised of 94% natural quartz, Radianz offers the beauty of stone in a nonporous, low maintenance surface that never requires sealing.



**Aldes** AD123



**Miyne** PG126



**Aurora** AL450



**Rapture** RA150



**Halo** hA120



**Acacia** AC711



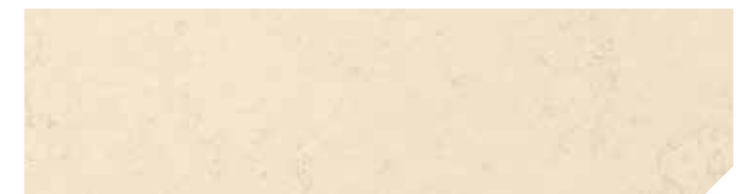
**Sequoia** SE155



**Lucern Lake** LL195



**Denali Cloud** DC155



**Volga** VO255



**Urban** UR750



**Pluto** PL722



## CIRRUS



Verona Verde VV254



Modern mO799



Contrail CO811



Ceres CO925



Ashford Fog AF953



Charcoal Ch949



Aster AS955



Sylendor SP850

## NOBLE



Mariposa Buff mU410



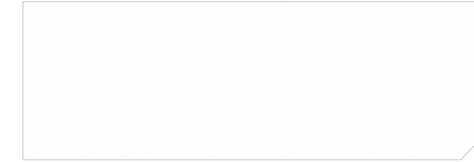
Imperial Gray IG910



Mirama Bronze mi780



## CLASSIC



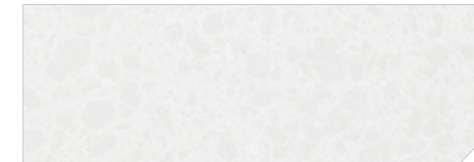
Diamond White DW105



Everest White EW120



Aleutian White AW130



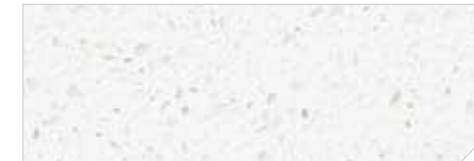
St. Helens White Sh145



Mont Blanc Snow mS141



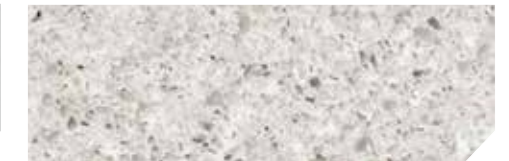
Kauai Cream KC213



Adirondack Birch AB144



Gentle Gray GG900



Sierra Bedrock SB744



Antigua Beach AN230



Bristol Beige BB227



Cumberland Flax CF350



Whitney Gray WG722



Elbrus Boulder EB866



Himalaya Ridge hR755



Columbia Gray CG910



Ural Gray UG950



Kunlun Ink KI992



### Eco-friendly Materials, Radianz

Colors shown may vary from the actual product.  
Please refer to product sample for true color representation.



Matte finish available



Recycled series

- Please consult your local supplier of Radianz® for specific recommended care and maintenance practices.
- To view new colors in greater detail, please visit [www.radianz-quartz.com](http://www.radianz-quartz.com)



# PERFORMANCE PROPERTIES

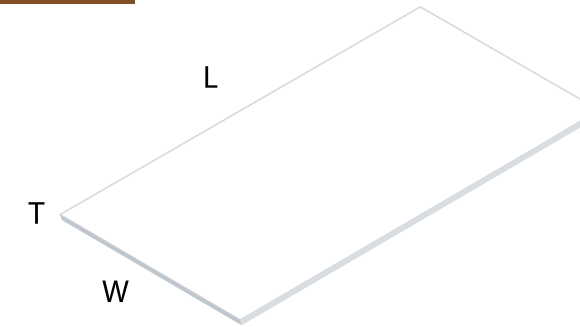
PROPERTY	UNIT	TEST RESULT	TEST METHOD
Specific Gravity	-	2.41	ASTM D 792-08
Water Absorption	%	0.03	ASTM C 373-06
Compression Strength (Dry)	Mpa	213.74	ASTM C 170-09
Compression Strength (Wet)	Mpa	251.16	
Flexural Strength	Mpa	53.6	ASTM D 790-07
Abrasion Resistance	mg	606	ASTM D 4060-07
Moh's Hardness	-	7	DIN EN 101-92
Rockwell Hardness	HRM	114	ASTM D 785-03
Slip Resistance-Static Coefficient of Friction (as received)	-	0.91/0.49 (Dry/Wet)	ASTM C 1028-07
Slip Resistance-Static Coefficient of Friction (with renovator)	-	0.89/0.48 (Dry/Wet)	
Point Impact	-	Passes	ANSI Z 124.6-07
Stain Resistance	-	Passes	
Cigarette Test	-	Passes	
Chemical Resistance	-	Passes	
Boiling Water Resistance	-	No effect	NEMA LD 3-2000 3.5
High Temp Resistance	-	No effect	NEMA LD 3-2000 3.6
Thermal Expansion	/°C	$1.35 \times 10^{-5}$	ASTM D 696-03
Fungal Resistance	-	No Growth	ASTM G 21-96
Bacterial Resistance	-	No Growth	ASTM G 22-96
Flammability	-	Class A	ASTM E 84-09
Flame Spread Index	-	10	
Smoke Developed Index	-	180	



COLORS	RECYCLED CONTENT (%)
Aster	15.5%
Verona Verde	3.9%
Gentle Gray	29.4%
Kunlun Ink	33.1%
Mont Blanc Snow	23.7%

COLORS	RECYCLED CONTENT (%)
Elbrus Boulder	24.2%
Imperial Gray	13.3%
Mirama Bronze	3.2%
Mariposa Buff	5.4%
Sierra Bedrock	9.6%

## PRODUCT DIMENSIONS



## STANDARD

THICKNESS	WIDTH	LENGTH	WEIGHT
2cm (0.8in)	152cm (60in)	310cm (122in)	237kg (522lb)
3cm (1.2in)			356kg (785lb)

## RESIDENTIAL WARRANTY

We trust in the quality of Radianz® quartz products. To ensure your satisfaction, LOTTE CHEMICAL CO.,LTD. is proud to offer a limited non-transferable 15-year warranty.

## COMMERCIAL WARRANTY

The Commercial 10-year Limited Warranty applies to Radianz® quartz that have been installed in an interior, commercial use application. For more details regarding the commercial warranty, please consult with your Radianz® distributor or contractor.

## PREVENTING DAMAGE

Protect the surface when using metal utensils, cutlery and cookware during food preparation and avoid direct contact with extremely hot objects and caustic chemicals.

## DISCLAIMER

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LOTTE CHEMICAL Co., Ltd. does not make any representation or warranties of the usefulness or expected result of the information, and does not assume any responsibility whatsoever related to the use of the information. Exclusion of the implied warranties may not apply in certain jurisdictions.

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