



QUARTZ SURFACES RADIANTZ



LOTTE CHEMICAL

LOTTE LOTTE CHEMICAL CALIFORNIA INC.

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Radianz[®]
Quartz Surfaces



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.

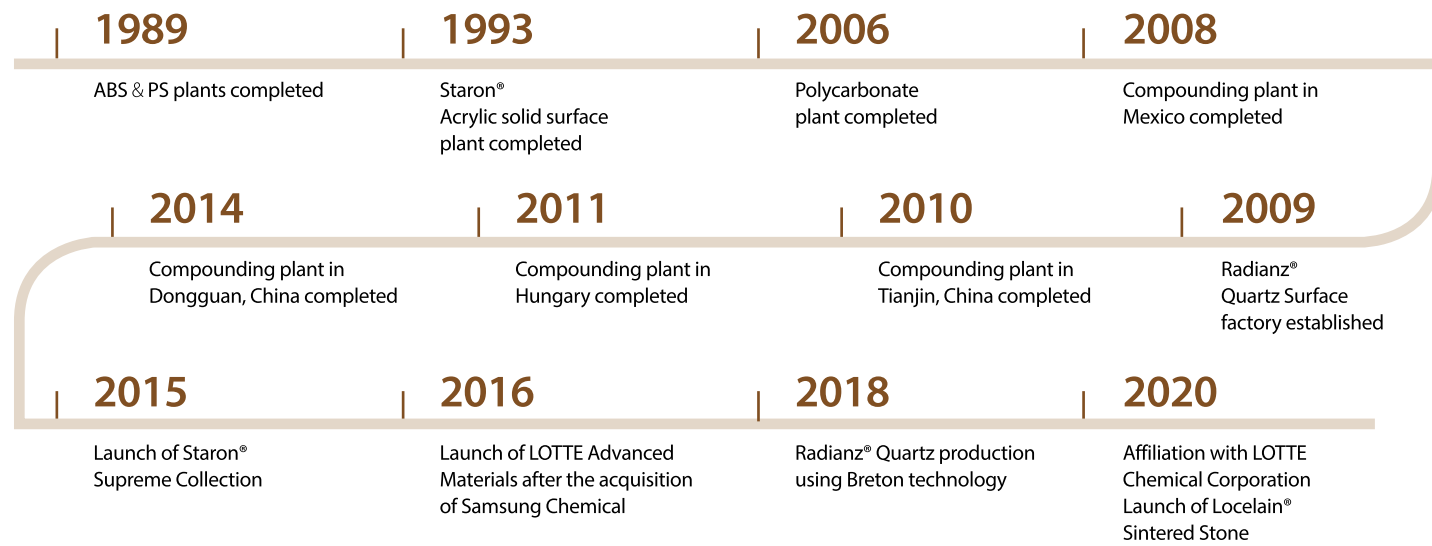
In 2020, LOTTE Advanced Materials has reached a new milestone with its affiliation with LOTTE Chemical Corporation. LOTTE Chemical pursues sustainable growth with outstanding performance in today's surface industry through cutting-edge technology and insight into global market trends.



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

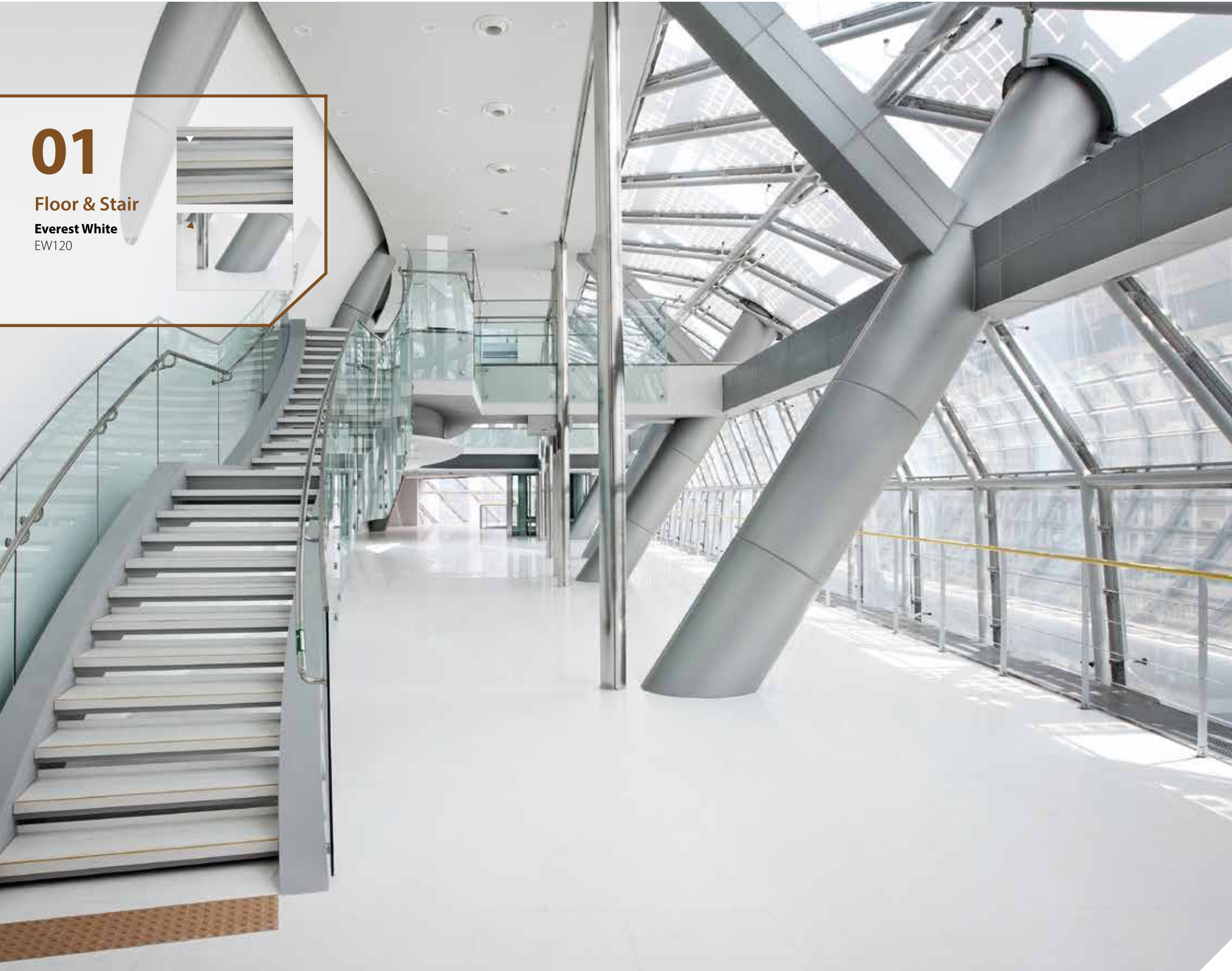
- Countertops / Vanity tops
- Lavatories and public restrooms
- Contract furniture / Conference tables
- Reception desks
- Transaction counters
- Food service and beverage counters
- Displays and fixtures
- Window sills / Wall caps

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

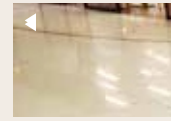
Floor
Aleutian White
AW130





03

Floor
Aleutian White
AW130



05

Floor &
Countertop
Aleutian White
AW130



04

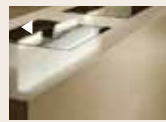
Stair
Whitney Gray
WG722



06

Tabletop
Everest White
EW120

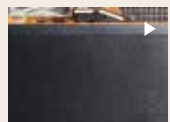




07
Countertop
Bristol Beige
BB227



09
Bathroom
Countertop
Antigua Beach
AN230



08
Countertop
Kunlun Ink
KI992

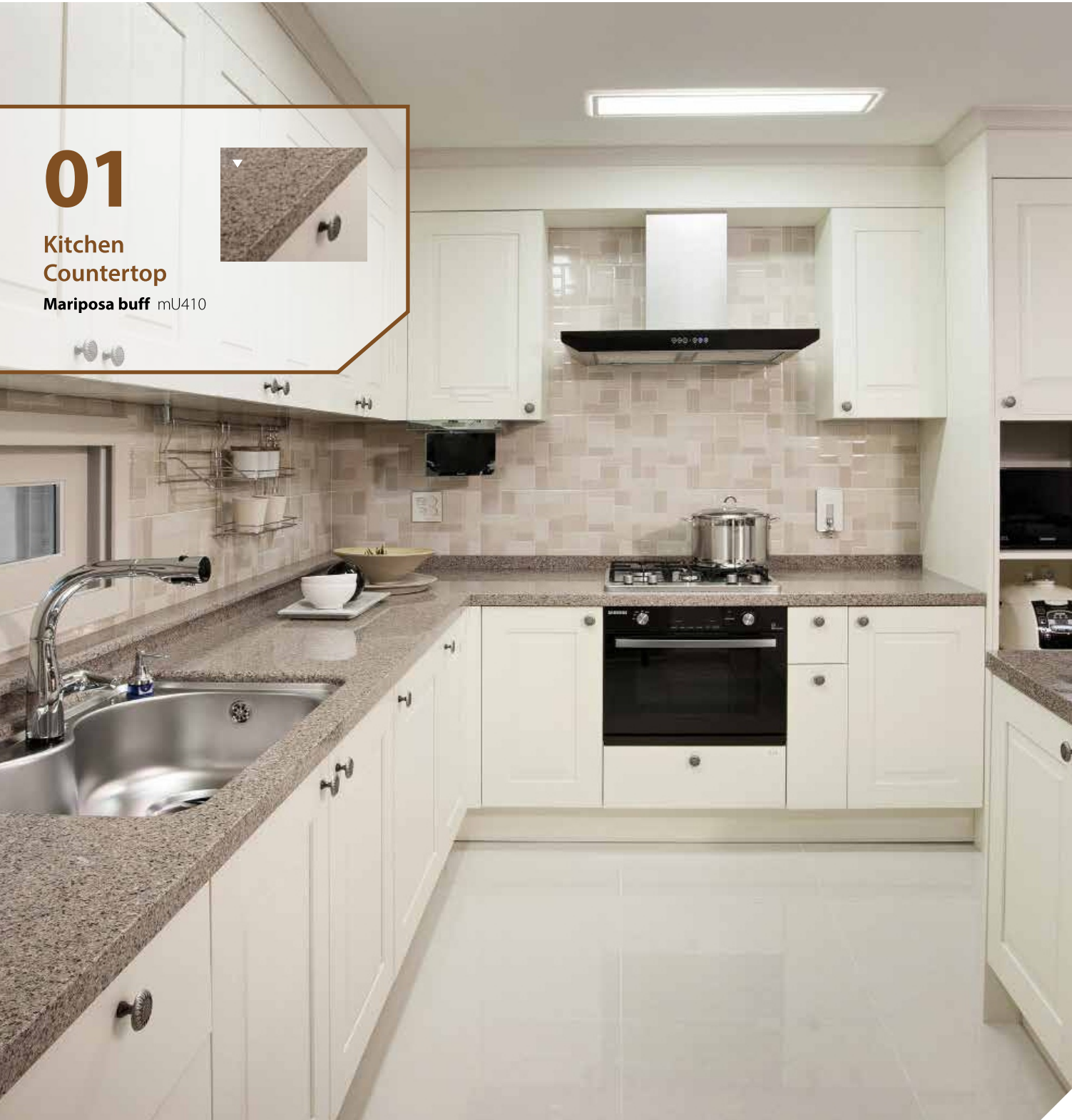


10
Bathroom
Countertop
Ural Gray
UG950



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.





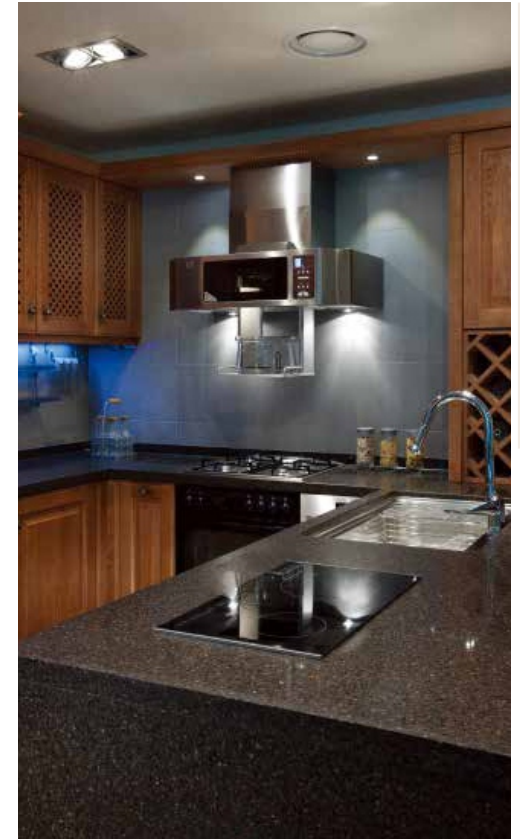
04

**Kitchen
Countertop**
Mariposa Buff
mU410



06

**Kitchen
Countertop**
Mirama Bronze
mi780



05

**Kitchen
Countertop**
Diamond White
DW105



07

**Powder
room
Countertop**
Adirondack Birch
AB144

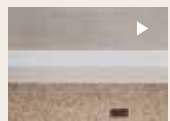




08
 Bathroom
 Countertop
 Cumberland Flax
 CF350



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

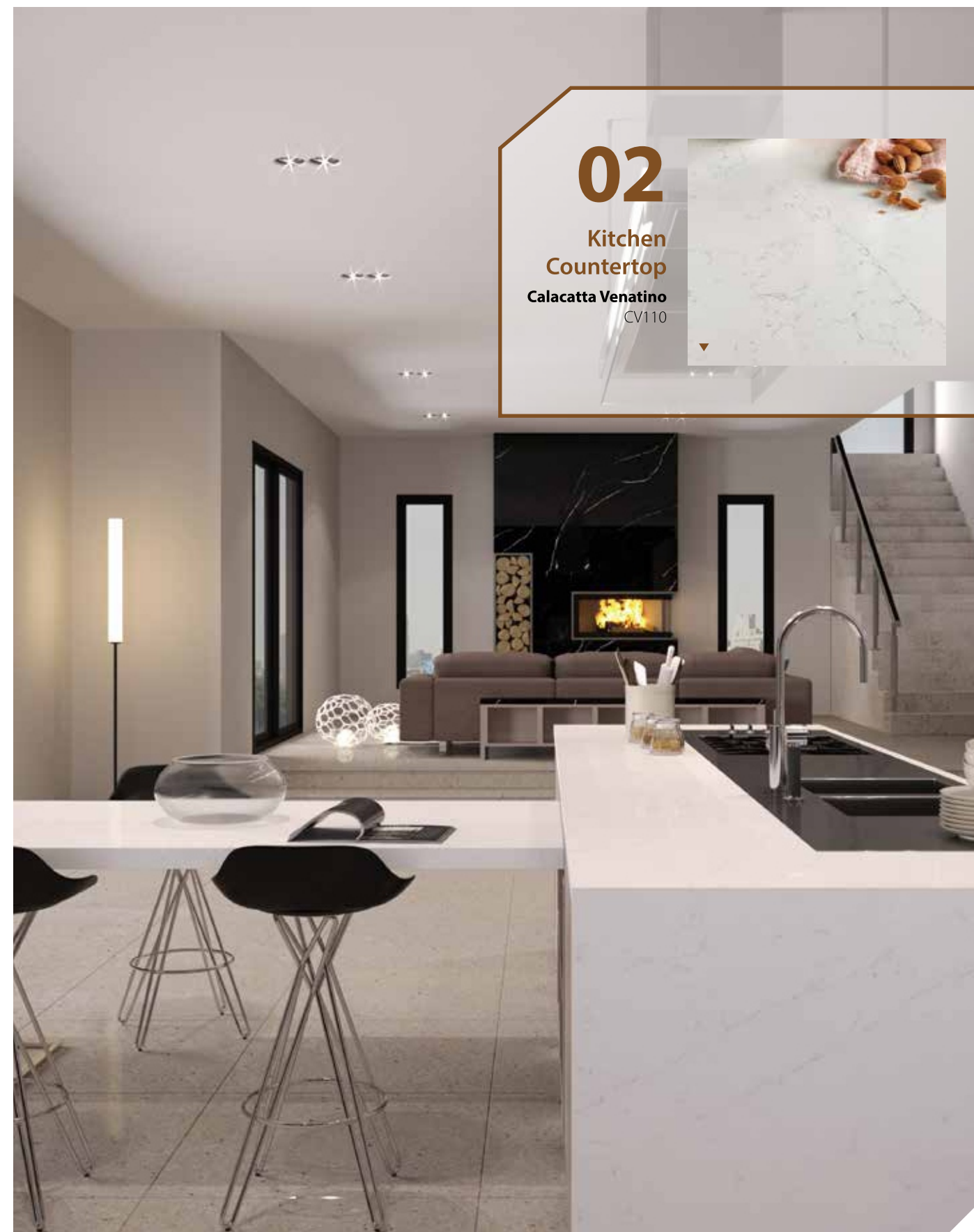
Acacia AC711



02

Kitchen Countertop

Calacatta Venatino
CV110





03
Kitchen
Countertop
Divine Di180



05
Kitchen
Countertop
Ashford Fog AF953



04
Kitchen
Countertop
Verona Verde WV254



06
Kitchen
Countertop
Sequoia SE155



07

**Kitchen
Countertop**
Modern m0799



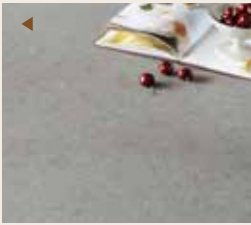
09

**Bathroom
Wall Cladding**
Starlight ST740



08

**Kitchen
Countertop**
Contrail C0811



10

**Kitchen
Countertop**
Volga V0255



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



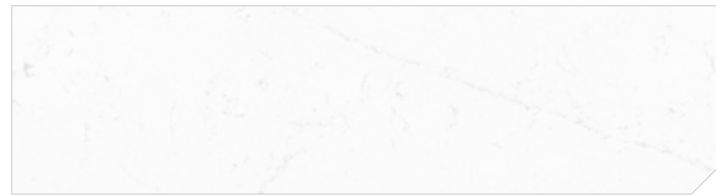
Calacatta Classic CV110



Calacatta Dolce CD150



Calacatta Mario Massa Sm160



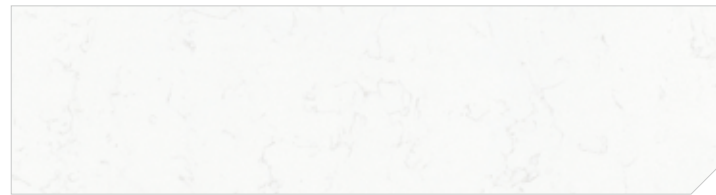
Calacatta Venatino CV110



Calacatta Verona CV120



Interstellar iN170



Divine Di180



Vega VE150



Cadiz CD760



Starlight ST740



Alpuruna 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, Radiantz offers the beauty of stone in a nonporous, low maintenance surface that never requires sealing.



Albes AD123



Alvine PG126



Aluring AL450



Rapture RA150



Halo hA120



Acacia AC711



Sequoia SE155



Lucern Lake LL195



Denali Cloud DC155



Volga VO255



Urban UR750



Pluto PL722

CIRRUS



Verona Verde W254



Modern m0799



Contrail CO811



Ceres CO925



Ashford Fog AF953



Charcoal Ch949



Aster AS955



Sylendor SP850

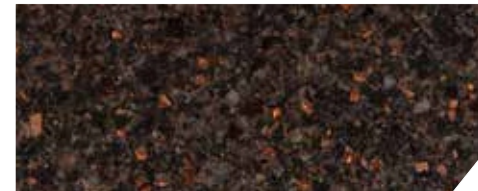
NOBLE



Mariposa Buff mU410



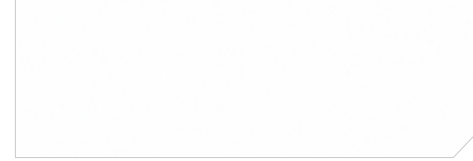
Imperial Gray IG910



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



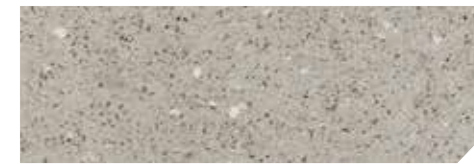
Bristol Beige BB227



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



PERFORMANCE PROPERTIES

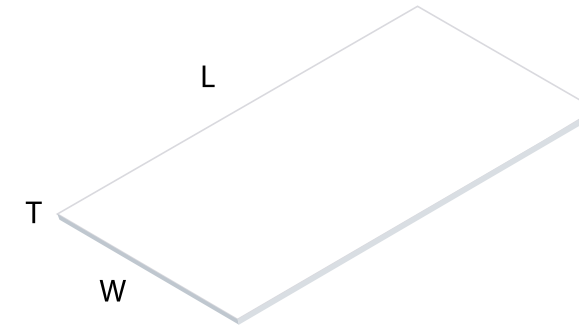
PROPERTY	UNIT	TEST RESULT	TEST METHOD
Specific Gravity	-	2.41	ASTM D 792-08
Water Absorption	%	0.03	ASTM C 373-06
Compression Strength (Dry)	Mpa	213.74	ASTM C 170-09
Compression Strength (Wet)	Mpa	251.16	
Flexural Strength	Mpa	53.6	ASTM D 790-07
Abrasion Resistance	mg	606	ASTM D 4060-07
Moh's Hardness	-	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	1.35×10^{-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

The information contained herein is provided by LOTTE CHEMICAL Co., Ltd. and LOTTE CHEMICAL CALIFORNIA INC. for information purposes only and should be used by individuals with technical experience and knowledge in the area.

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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