

staron® | Solid
Surfaces

STARON® A PREMIUM SOLID SURFACE MATERIAL

DURABILITY, COLOUR VARIETY,
DESIGN WITHOUT LIMITS

STARON® Solid Surfaces is an acrylic-based material made of natural minerals. Just as decorative as natural stone, but with all the advantages of a solid surface material. As it is solid and non-porous, it can be processed three-dimensionally, offering architects and designers maximal freedom.

Although STARON® incorporates all important qualities of stone, it can be worked by carpenters in a similar way as hardwood. Unlike stone however, STARON® feels warm and pleasant to the touch.

With its many advantages and versatile application possibilities, STARON® is a convincing contribution to the private, commercial and medical sectors alike.



ROBUST AND DURABLE

- Easy maintenance and repair
- Flame and shock resistant



HYGIENIC

- Non-porous and homogeneous
- Antimicrobial resistance
- Chemical resistance



FLEXIBILITY AND VARIETY

- Thermoformable and 3D-effects
- Organic and geometric design
- Perfectly suitable for complex design



LIMITLESS COLOUR VARIETY

- 150 colours
- Reflection and depth-effect
- Supreme Collection offering stone, marble and concrete looks



FREE FROM JOINTS

- Glues together seamlessly
- Soft and flawless to the touch
- Cast-like design



TRANSLUCENT

- Full-surface backlighting
- Variable luminosity
- Individual backlighting for logos and texts

NATURAL

Displaying a graceful and delicate pattern, Staron Solid Surfaces evoke the natural character of stone while offering all the practical benefits of a solid surface. For those looking to create a warmer scheme, Staron is the ideal choice and perfectly suited to any type of residential environment.



UNIQUE

Drawing on the latest interiors trends, Staron's wide range of exquisite, smooth and colourful surfaces add an exciting pop of colour to your home. The speckled structure of the high-density Staron surfaces lends kitchens a subtle note of colour, creating texture and depth – suitable for a wide range of interior design schemes.



URBAN

Designed with modern living in mind, the Urban Series collection from the solid surface specialists Staron introduces an effortless urban chic to interiors. Eleven exciting colour options are available, inspired by the wave of contemporary industrial design trends that have captured the world of interiors. Opt for Steel to conjure up an on-trend industrial feel or select the softer and more detailed Ash Concrete to create a subtle urban style.



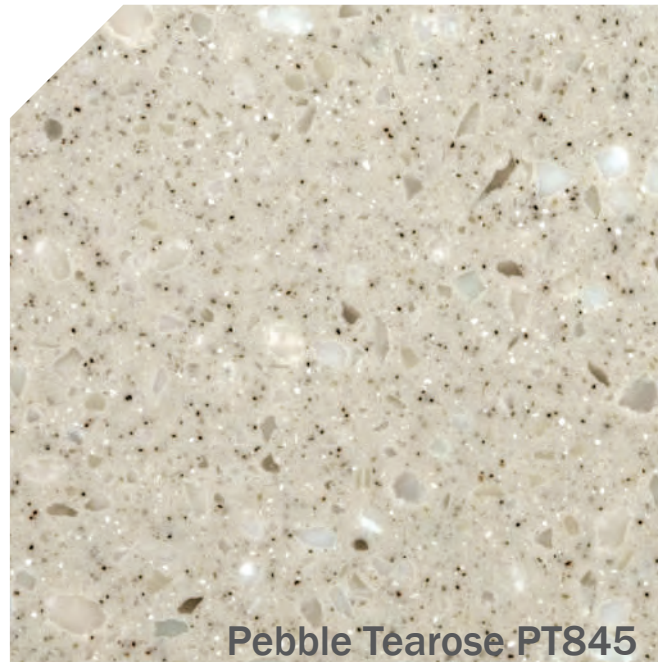
LIFESTYLE

YOUR DESIGN SOLUTIONS BY STARON

Combining a stunning appearance with outstanding practical qualities, Staron Solid Surfaces are truly revolutionary surface materials. Staron offers an impressive range of solid, metallic and natural stone effect surface designs suited to any interior scheme. They provide a smooth, grout-free surface, and their solidity ensures that both colour and detail run right the way through the thickness of the material, meaning that drainer grooves, edge profiles and cutout shapes can be applied seamlessly.



NEW COLOURS



Pebble Tearose PT845



Sanded Mint SM463



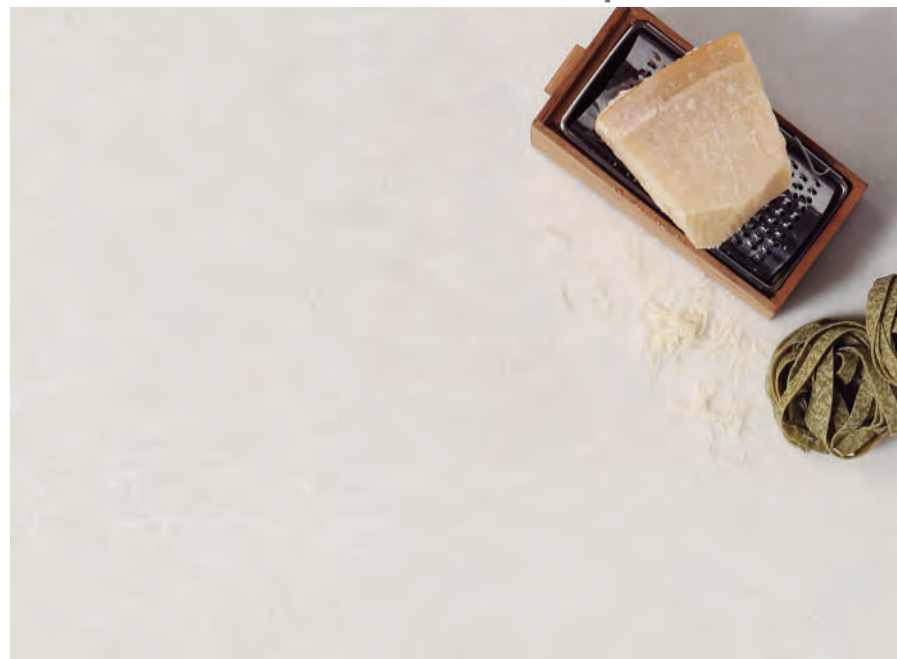
Sanded Iceblue SI462



Supreme Concerto VC157



Terrazzo Venezia NT150



Supreme Flux VF113



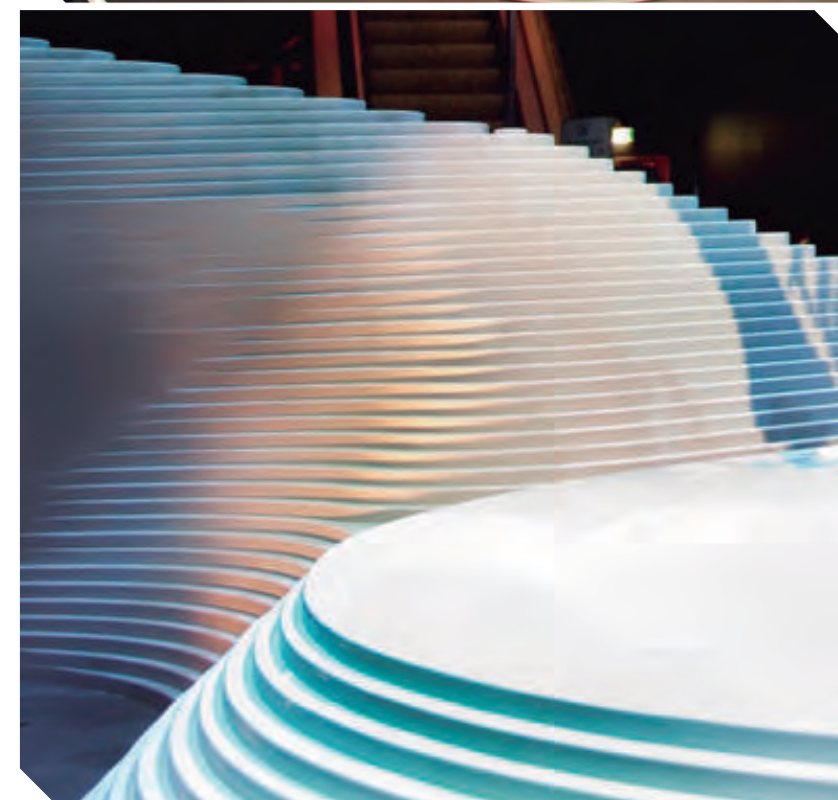
Supreme Ash Concrete VA129

Designed with modern living in mind, premium solid surface brand, Staron has introduced seven new colours to its collection. Inspired by contemporary design and interiors, the new surfaces offer a refined finish that's guaranteed to enhance any residential kitchen, bathroom or commercial space.

Neutral, yet eye-catching, each new colour from Staron features intricate, considered detail. From the unfinished, industrial look of Supreme Ash Concrete, to the contrasting flecks of Terrazzo Venezia, each new shade combines a stunning appearance with outstanding practical qualities. Opt for the wash-effect shades of brown, ash and white in Supreme Concerto for a unique worktop designed to make a statement, or choose Supreme Flux for a bright, yet subtly mottled surface. Pebble Tearose, made from Staron's most popular sandy stone shades, features a multitude of flecks for a more textured appearance, whilst Sanded Mint and Sanded Iceblue offer a more vibrant choice, perfect for the healthcare sector due to their translucent characteristics.

PUBLIC BUILDINGS

01



National History Museum

London, UK

Design and contractor: Paragon Creative

Photo: NHM London

Colour: Sanded Stratus, Sanded Tundra

When London's Natural History Museum had the opportunity to display the world's most complete Stegosaurus skeleton, no risks were taken. After all, this 900kg behemoth took 150 million years to find. A design solution was therefore required that would raise the installation above ground level to prevent accidental collisions, while also hide the supportive steel frame from view.

An outer plinth constructed from Staron® was created that beautifully complemented, and cleverly disguised, the complex steel frame. As the inner frame sat on bespoke shock-absorbent feet, it was also essential that the outer plinth have no contact with it at any point.

Inspired by the Wyoming heritage of the Stegosaurus, two shades of Staron® were used for the outer plinth layers – Sanded Tundra and Sanded Stratus. Each thermoformed layer was then precisely CNC cut and fabricated to create a flawless curved structure capable of withstanding 900kg of bones and metal.



02

Berlin Olympic Stadium visitor centre
DE

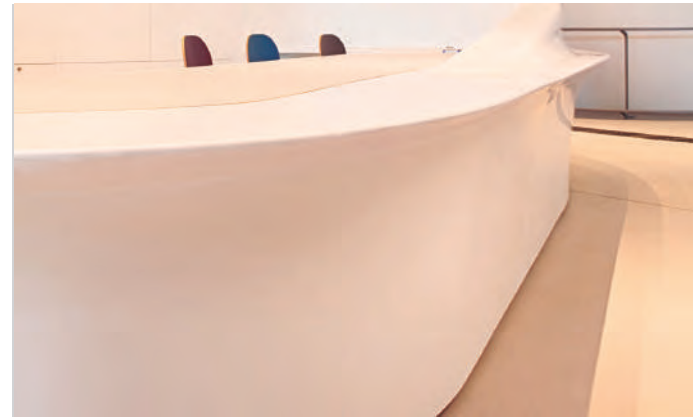
Design and photo: Akay von Oppen, Berlin
Colour: Bright White



03

Indoor pool Blaubeuren
DE

Design: Gebhardt Architectural Offices
Contractor: Mohring
Photo: Webvisio Mediadesign
Colour: Pure White



04

New campus of the University of Economics and Business Vienna, AT

Design: Zaha Hadid Architects
Contractor: Joinery Scheschy
Photo: Studio M. Eder
Colour: Bright White



05

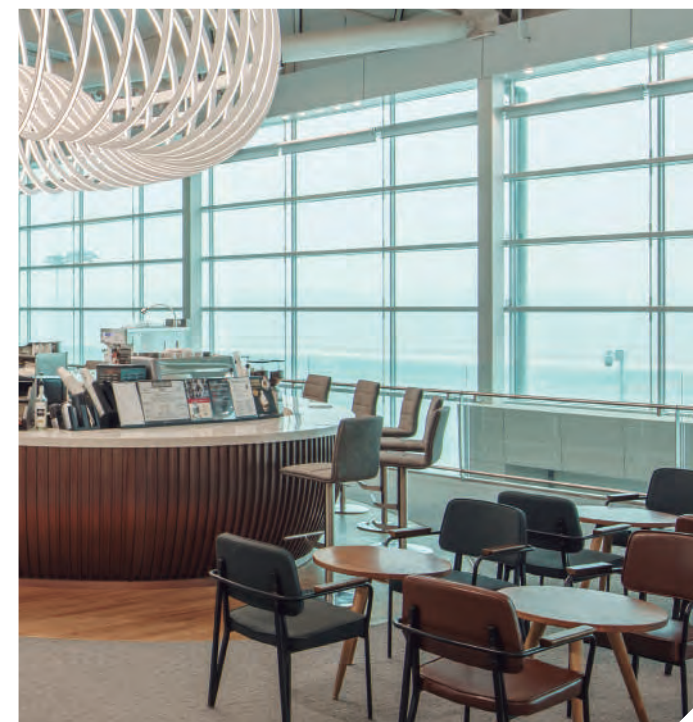
Student Residence Milestone Vienna, AT

Design: Josef Weichenberger Architects
Photo: Studio M. Eder
Colour: Quasar White

In an age where encouraging students to learn has never been more challenging due to endless distractions from smartphones, clever design has a key role to play in aiding concentration. At the Milestone Vienna campus you'll find an array of creative communal areas and private learning spaces constructed from Staron® that let in natural light and create a warm, inviting and effective learning environment.



HOTEL & RESTAURANT



01

Angel-in-us Cafe specialty

Bar & countertop
Incheon, KR

Colour: Quarry Oyster

Sweeping curves. Sharp lines. Bright tones. The compelling reasons for using Staron® surfaces in bar and restaurant areas quickly add up – unlike stains and bacteria, thanks to its non-porous, waterproof property.

02

Luxury Shop Lounge

UAE

Design: Mac Stopa, Massive Design
Colour: Bright White





03

Marriott Renaissance Hotel
Barcelona Fira, ES

Design: Ateliers Jean Nouvel,
Ribas & Ribas
Photo: A. A. Fuentes
Colour: Bright White

SHOPFITTING



01

Dreher's Gusto Bakery
Kehl, DE

Colour: Supreme Ocean View

While every Staron® colour delivers vibrancy and versatility, the premium Supreme collection adds even greater visual standout. Each contemporary option in the collection features random, veined-patterns that are directly inspired by nature, enabling designers to create the effect of marble and natural stone at a fraction of the cost.

When the waves break on the shores of a white beach, the foamy water droplets splash apart into organic forms that feel refreshing and natural. In the same way, the pattern of Supreme Ocean View emits a subtle shimmer that creates a fresh atmosphere.

02

Fashion select shop
FR

Design by Architecte DESA
Colour : Mosaic Dalmatian

For a retail environment to be truly successful, it needs to be both daringly original and relentlessly hardwearing. It's why Staron® is used by retailers across the globe to create luxurious and inventive showrooms capable of withstanding the impact of thousands of daily consumers.





03

Heidi.com Flagship Store CH

Design: Zaha Hadid Architects
Colour: Pure White

When designing their first Flagship store, leading online fashion brand Heidi.com wanted a solution that would effortlessly bring together their on and offline worlds in a way that would surprise and engage consumers. To bring their vision alive, they collaborated with world-renowned Zaha Hadid Architects and Staron® to fashion a modern interior space awash with light and interactive elements. With digital playing such a pivotal role in the company's success, a key deliverable for the new store was a secure housing unit for a giant digital screen. Staron® was chosen for the task, due to its hardwearing properties and ability to be thermoformed into free-flowing curves – a key motif of Zaha Hadid's work. Complementing the unit were a series of curved walls and display plinths in Pure White Staron®, again reflecting the architect's signature style.



04

Stuart Weitzman Shoe shop Athens, GR



HEALTH CARE

01

Ahrend Healthcare Inspiration Studio Showroom
Dubai design district, UAE

Design by MASSA Interior Design & Architecture
Colour: Bright White



JOINT-FREE
DESIGN



EASY
MAINTENANCE



NON-POROUS
MATERIAL



EASY TO
CLEAN



DURABLE AND
EASY-CARE



HOMOGENEOUS



CHEMICALS AND
STAIN RESISTANT



EXCELLENT
QUALITY



FLEXIBILITY
THROUGH FORM
VARIETY



ENVIRONMENTALLY
FRIENDLY
CERTIFICATION



02

University of Queensland
Victoria, AU

Design: Luke Pendergast, Conrad Gargett
Colour: Aspen Glacier

Rather fittingly, very few environments are more testing on work surfaces than a laboratory. So when designing a new teaching facility within the University of Queensland's Great Court Complex, a hardwearing and versatile material was required that could withstand the rigours of daily experiments. The solution, was Staron®.

While chosen for its stain, chemical and heat-resistant qualities, the seamless and non-porous design of Staron® was also a key deciding factor, as the new facility would primarily be used as a wet laboratory. Such spaces require a high level of containment to ensure the safety of everyone inside, however those involved with the project were also keen to create a learning environment free of restriction.

Aspen Glacier Staron® surfaces were used for everything from desks and foot rests, to wall linings and custom-built sinks, and provided the design flexibility and clinically sharp aesthetic required. The final result was a future-focussed, state-of-the-art teaching space where both students and teachers can excel daily.

RESIDENTIAL

01

Private kitchen
Bulli Beach, NSW, AU

Design/concepts by Gavin Hepper
Colour: Sanded Heron, Fog

Using Staron® Solid Surfaces with a 12mm edge in colour Sanded Heron as the benchtop, enabled a seamless connectivity within the monolithic island and its concealed beauty.

The key feature and magic of this kitchen is in those items that are still concealed. Technology has been introduced through the centrepiece with an uprising of the island to reveal four dimensions of activity and functionality.

Staron® in colour Fog has also been utilised for seamless integration in the servery and wet areas. The versatility of Staron® allowed for it to be wrapped around the window, benchtops, side walls of the cabinetry and underside of the bulkhead.





02

Private kitchen
London, UK

Colour: Tempest Peak

Kitchen necessity, or design talking point? With Staron®, the two quickly become one and the same. Sinks can be fully integrated into the solid surface, creating a free-flowing design that's also free of any unhygienic joints. Drainer grooves and complementary upstands complete the look in style.



03

'Motive' Washbasin
Victoria, AU

Design and photo: Thomas Coward
for Omvivo Kitchen
Colour: Bright White

While Staron® may be an obvious choice for any bathroom due to its 100% waterproof and seamless qualities, the way in which it can be shaped and thermoformed commonly results in designs that are anything but obvious.





EXTERIOR WALL CLADDING

01

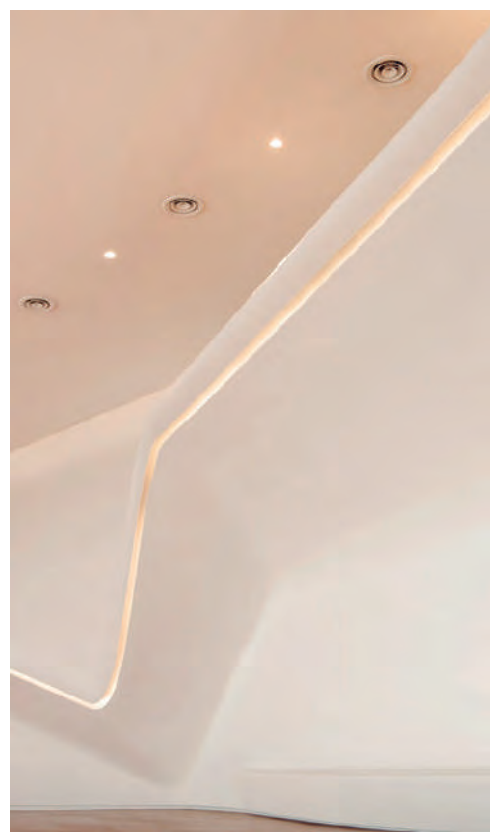
Tectum Group Office building
Genk, BE

Colour: Bright White

02

KUHO Shop
Jeju, KR

Colour: Bright white



INTERIOR WALL CLADDING

01

Riley - a Crystalbrook Collection Resort
AU

Design: Tim Bentley, Thomson Adsett
Colour : Supreme Delphi

Thermoformed Staron® panels enable you to achieve a contemporary minimalist aesthetic with maximum ease. Inset lighting, long flowing curves and a seamless finish can all be achieved, resulting in an eye-catching finish where walls and ceilings effortlessly become one.

02

Sky Lounge, Dongdaemun Design Plaza
Seoul, KR

Design: Zaha Hadid Architects
Colour : Dazzling white

TRANSPORT



01

Yacht
AU

02

Yacht
IT

Design: Maurizio Cossutti&Italia
Yachts
Colour: Bright White

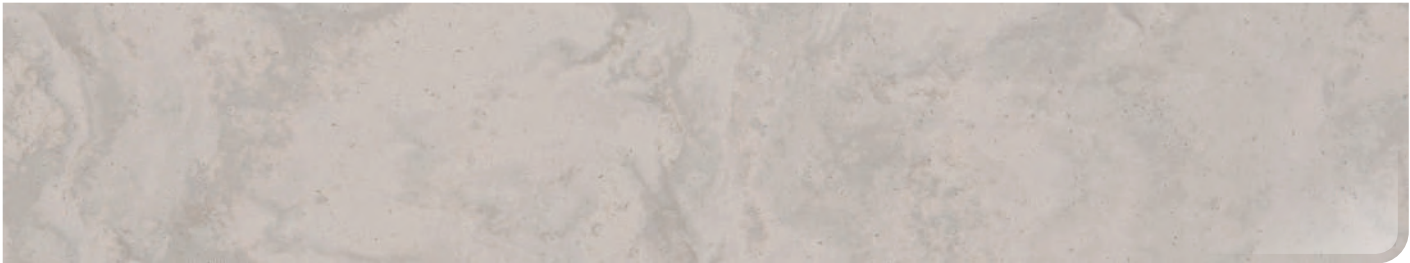


STARON® COLOURS

Supreme™



Delphi VD111



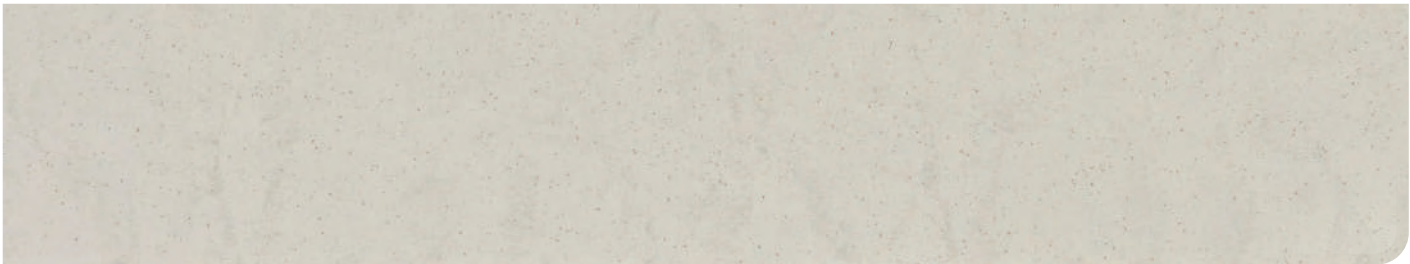
Dawn VD126



Urban Grey VU127 ✦



Ocean View VO171



Natural Bridge VN144



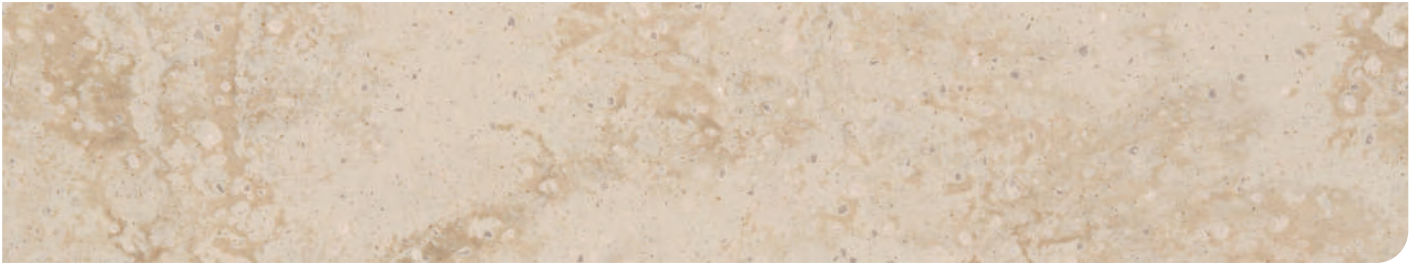
Cloudbank VC118



Magnolia VM143



Beige Granite VB172



Dandelion VD175 ✦

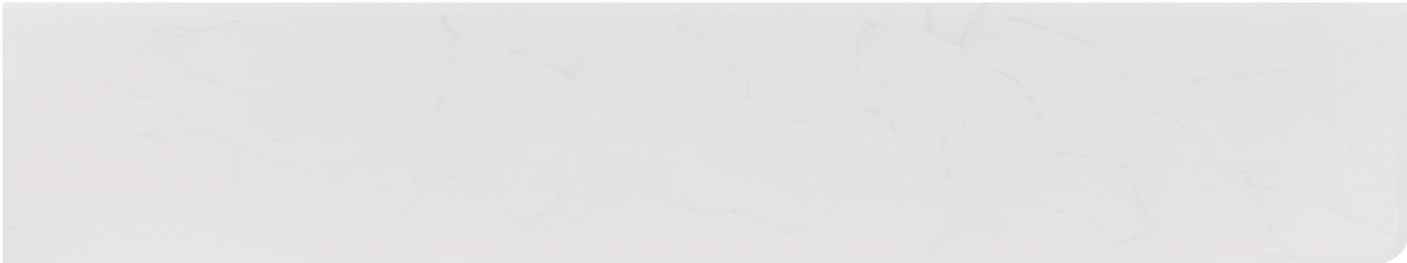


Loam VL155 ✦

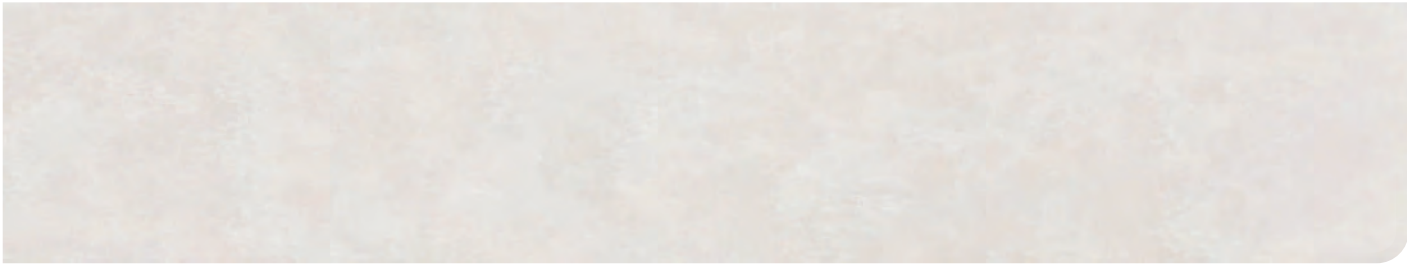
Supreme™



Cotton White VC110



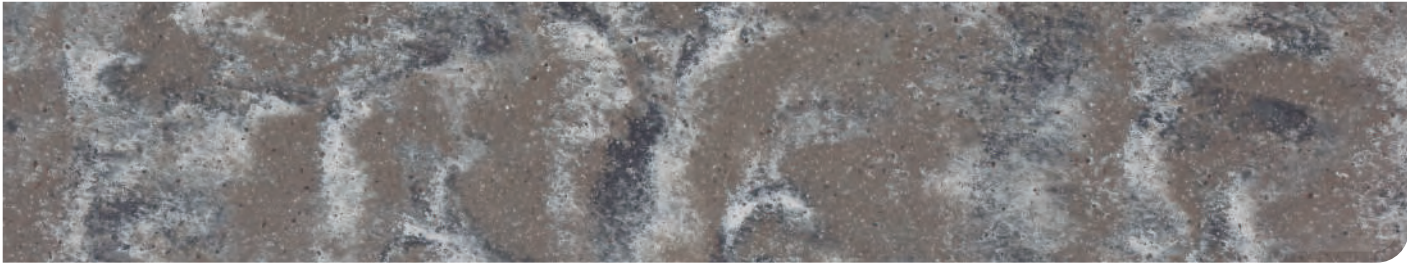
Morning Sky VM114



Flux VF113 **NEW**



Ash Concrete VA129 **NEW**



Concerto VC157 **NEW**

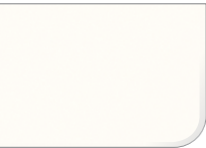
SOLID

Quasar White SQ019	Dazzling White SD001	Pure White SP016	Bright White BW010	Pearl SP011	Natural SV041
Ivory SI040	Fog SF020	Bliss SB022	Serene SS023	Steel ST023	Onyx ON095
Sunflower(N) SS042	California Poppy(N) SC052	Oasis SO064	Univers(N) SU053		

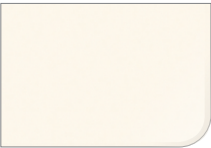
SANDED

Sanded Icicle SI414	Sanded White Pepper WP410	Sanded Birch SB412	Sanded Cream SM421	Sanded Sahara SS440	Sanded Gold Dust SG441
Sanded Stratus SS418	Sanded Goose SG428	Sanded Cornmeal SC433	Sanded Papyrus SP474	Sanded Heron SH428	Sanded Meadow SM465
Sanded Mint SM463	Sanded Iceblue SI462	Sanded Vermillion SV430	Sanded Clay SC475	Sanded Mocha SM453	Sanded Chestnut SC457
Sanded Grey SG420	Sanded Taupe ST486	Sanded Tundra ST482	Sanded Dark Nebula DN421	Sanded Onyx SO423	

FUNCTIONAL PRODUCTS




Infinity
IF188




Pharos
GP111

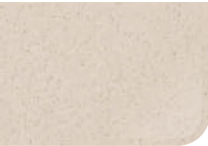
ASPEN




Aspen Glacier
AG612




Aspen Snow
AS610



Aspen Lily
AL645



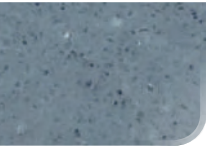
Aspen Alder
AA625



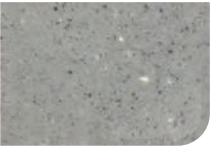
Aspen Misto
AM681



Aspen Pepper
AP640



Aspen Pond
AP665



Aspen Concrete
AC629



Aspen Brown
AB632



Aspen Mine
AM633

PEBBLE



Pebble Ice
PI811



Pebble Swan
PS813



Pebble Saratoga
PS820



Pebble Gold
PG840



Pebble Grey
PG810



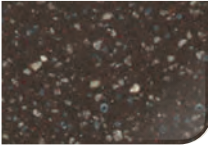
Pebble Tearose
PT845



Pebble Blue
PB870



Pebble Chocolate
PC855





Pebble Terrain
PT857



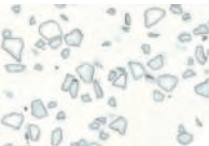
Pebble Ebony
PE814

STARON®, a premium solid surface material

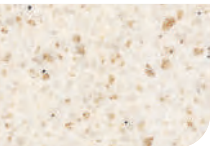
- The printed colours may differ from the sample and actual product. Please see the sample before selecting the product.
- Customised colours are available depending on order quantity. Please consult your contact person about the availability of colours and sizes.

-  STARON® colours with recycled materials
-  High-maintenance requirements


QUARRY



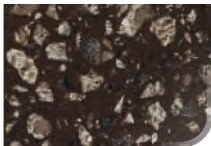
Mosaic Dalmatian
QD212



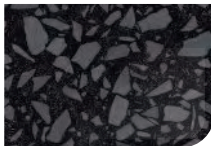
Quarry Oyster
TO310



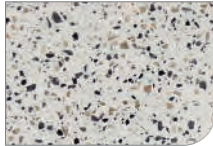
Quarry Starred(N)
QS288



Earthen Bark
QL257



Quarry Minette
QM289



Terrazzo Venezia
NT150

TERRAZZO

METALLIC



Metallic Yukon
EY510




Metallic Sleeksilver(N)
ES582




Metallic Galaxy
EG595


tempest®




Peak
FP100



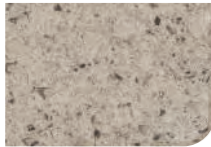
Polar
FP111




Meteor
FM111



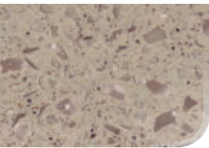
Silvercloud
FS122



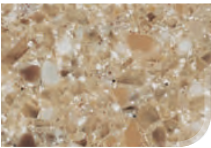
Sonoma
FS143



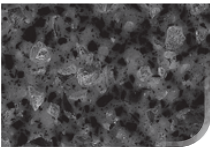
Genesis
FG174




Mystic
FM178



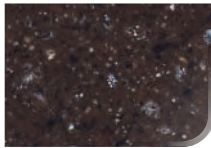
Rattan
FR124



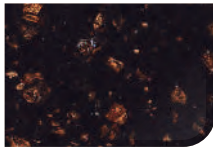
Zenith
FZ184



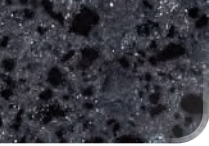
Coffee Bean
FC158



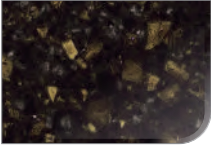
Adamantine
FA159



Radiance (Shimmer)
FR148



Caviar
FC188



Gold Leaf
FG196

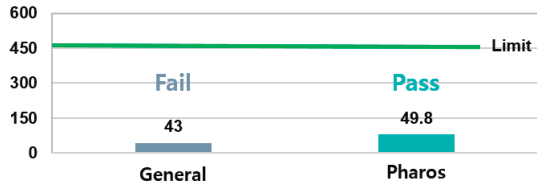
FLAME RETARDANCY

FLAME-RETARDANT SURFACES FOR ANY SHIP & BOAT INTERIORS

Staron® Pharos holds MED (Marine Equipment Directive) certification in accordance with IMO (International Maritime Organization) regulations. While most shipbuilding materials are sensitive to heat and fire, Staron® Pharos meets both flammability requirements and high aesthetic demands.

Max. smoke density

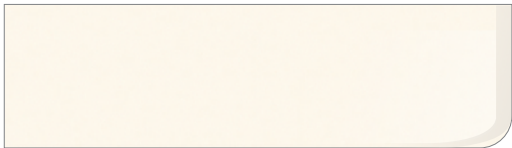
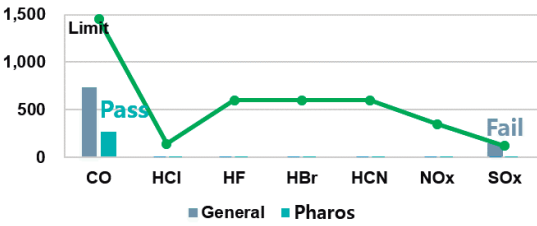
- Passed with 49.8 Dn (smoke density)



Toxic gas generation

- Tests found 273 ppm of CO; other kinds of gas were not found

- In non-certified solid surfaces, SOx gas was found



Pharos
GP111



Marine Equipment Directive (MED)
2014/90/EU

RECYCLED STARON®

Many of Staron's Solid Surface colours consist of recycled materials, which reduces industrial waste and energy consumption during the production process. The colours are also eco-friendly, as certified by GREENGUARD and GREENGUARD Gold – and particularly recommended for use in hospitals and education buildings, where hygiene matters most. Staron has also received SCS certification from the LEED Green Building Program.

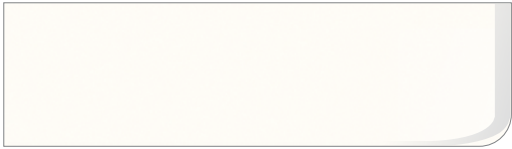


SUPER FLEX

SPECIALISED FORMULA FOR DRAMATIC CURVES & DESIGNS



Staron® Super Flex allows more dramatic curves and flexibility – resulting in high-performance applications in all commercial, residential and public space projects. Meet the new Staron innovation and get down to designing your new futuristic and functional space.



Infinity ♦
IF188

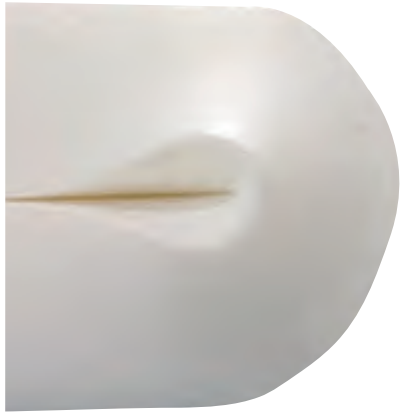


HIGH ELONGATION

- The elongation rate of Staron® Super Flex is twice as high as that of existing Staron® colours.
- Staron® Super Flex can be used in architectural and interior applications, such as high-performance wall cladding or kitchen, bathroom and furniture surfaces.

TIME-SAVING

- Staron® Super Flex can be thermoformed at lower temperatures and in shorter heating times compared to the thermoforming process of existing Staron® colours.



RADIUS
" 0 MM "

Product	Oven Temp.	Time	Radius
StaronSolid (I2T)	302°F (150 °C)	45-80 min	2" (50mm)
Staron Super Flex(I2T)	284°F (140 °C) 302°F (150 °C)	20-30 min 15-30 min	0" (0mm)

EXTERIOR WALL CLADDING

DISCOVER THE VERSATILE BEAUTY OF STARON COLOURS FOR EXTERIOR CLADDING

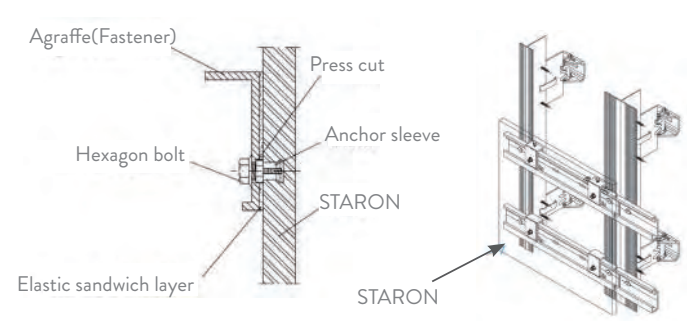
EUROPEAN TECHNICAL ASSESSMENT CERTIFIED [ETA-16/0091]

The ETA certificate for Staron® exterior cladding with Keil undercut anchor system was issued by the DIBt (Deutsches Institut für Bautechnik, the Technical Assessment Body certified by the European Organisation for Technical Approvals). It verifies that Staron® is a suitable material for exterior cladding under European regulations.

INSTALLATION

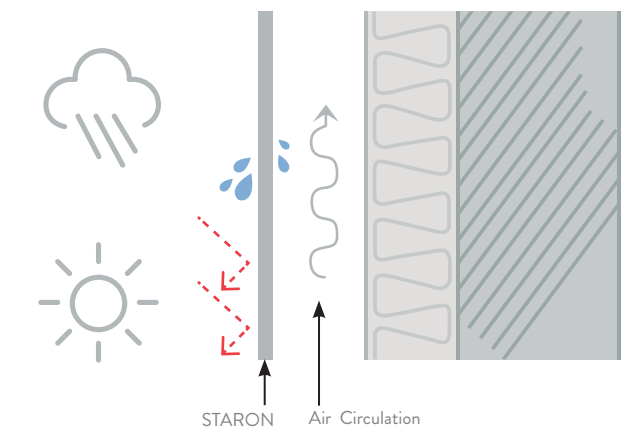
Ventilated facade cladding system and undercut anchor is the official and proper fixing method for Staron® panels of 12 mm thickness.

- UNDERCUT ANCHOR AND CLADDING FIXING



- ADVANTAGES OF VENTILATED FACADE

- Discharges rainwater entering from the outside and moisture created inside the building via the gap to prevent corrosion of the building
- Saves energy in the building thanks to increased thermal insulation
- Reduces external noise
- Prevents condensation from forming in the building



FIRE PERFORMANCE

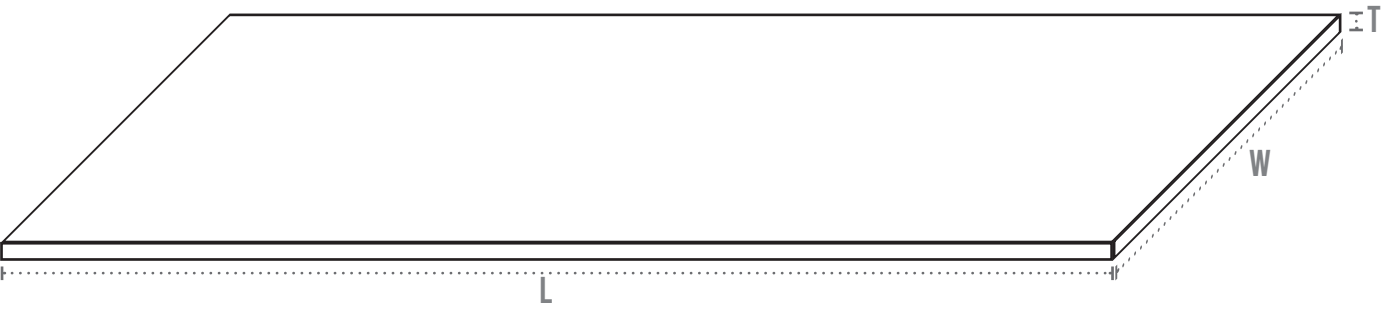
FIRE RESISTANCE	METHOD	RESULT
Euro class	EN 13501-1	B-s1, d0
Germany	DIN 4102-1	B1
Tests for external fire exposure to roofs	EN13501-5	Broof(t1)

RECOMMENDED COLOURS FOR FACADES & CLADDING



PANEL DIMENSIONS

Customers get to pick from a wide range of thicknesses and widths of Staron Solid Surfaces. Please see all available sizes in the table below and contact us if you have any special size or colour requests.



T - THICKNESS	W - WIDTH	L - LENGTH	WAREHOUSE OPERATION
mm	mm	mm	
19	760	3.680	
12	760	3.680	o
	930*	3.680	o
	1.350*	3.680	o
	1.520*	3.680	
9	760	3.680	
	930*	3.680	
	1.350*	3.680	
6**	760	2.500	o
	930*	2.500	o
	930*	3.680	

* Only available in Bright White (BW010)
Other colours can be also purchased depending on your order quantity.

** High-maintenance decor themes and panel thicknesses of 6 mm are not recommended for horizontal surfaces subject to harsh environments/stress.

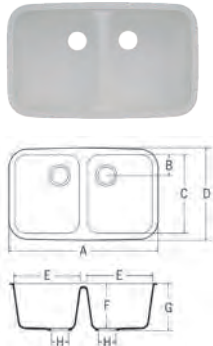
STARON® 10-YEAR LIMITED WARRANTY

LOTTE CHEMICAL ('LOTTE') grants the owner a limited 10-year warranty on any STARON® installation constructed in accordance with LOTTE approved processing and application guidelines. For more information about the terms and conditions, please consult our website www.staron.com.

SINK & BOWL

KITCHEN | SINKS

A2311



A	794mm
B	110mm
C	421mm
D	481mm
E	348mm
F	348mm
G	235mm
H	250mm

A1181



A	460mm
B	400mm
C	460mm
D	400mm
E	208mm
F	225mm

A1231



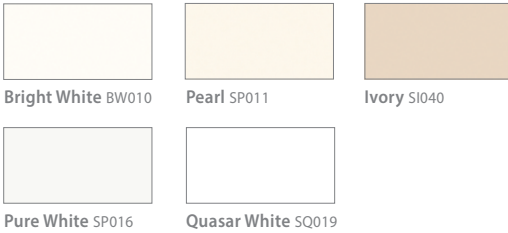
A	592mm
B	422mm
C	482mm
D	532mm
E	187mm
F	202mm



• LOTTE CHEMICAL does not guarantee the exact colour match of Sink & Bowls and sheets.

• Staron Sink & Bowls are at best implemented in a product of these five colours :

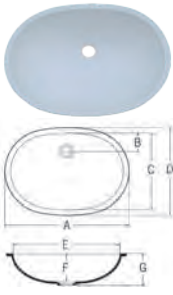
COLOUR OPTIONS



An integral sink will improve the efficiency and hygienic qualities of a kitchen or bath area and, particularly, interior commercial applications. Staron all-acrylic sinks and bowls can be installed in combination with Staron sheet materials as part of a continuous surface featuring imperceptible seams for a perfect, uninterrupted fit. That also means there are no gaps or crevices for bacteria or mold to accumulate and grow. Whichever style you choose, Staron's non-porous, hygienic surfaces will always be easy to clean and maintain. Choose from five coordinated sink colour options from a collection of ten, popular models.

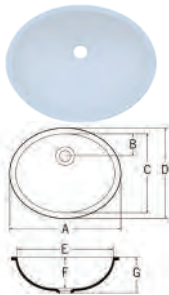
BATHROOM | WASHBASINS

A3211



A	548mm
B	86mm
C	356mm
D	396mm
E	508mm
F	156mm
G	173mm

A3181



A	462mm
B	94mm
C	336mm
D	376mm
E	422mm
F	139mm
G	156mm

B3150



A	428mm
B	278mm
C	328mm
D	378mm
E	116mm
F	138mm

B3190



A	524mm
B	279mm
C	324mm
D	474mm
E	116mm
F	138mm



MOUNTING OPTIONS

Seam mount



Under mount



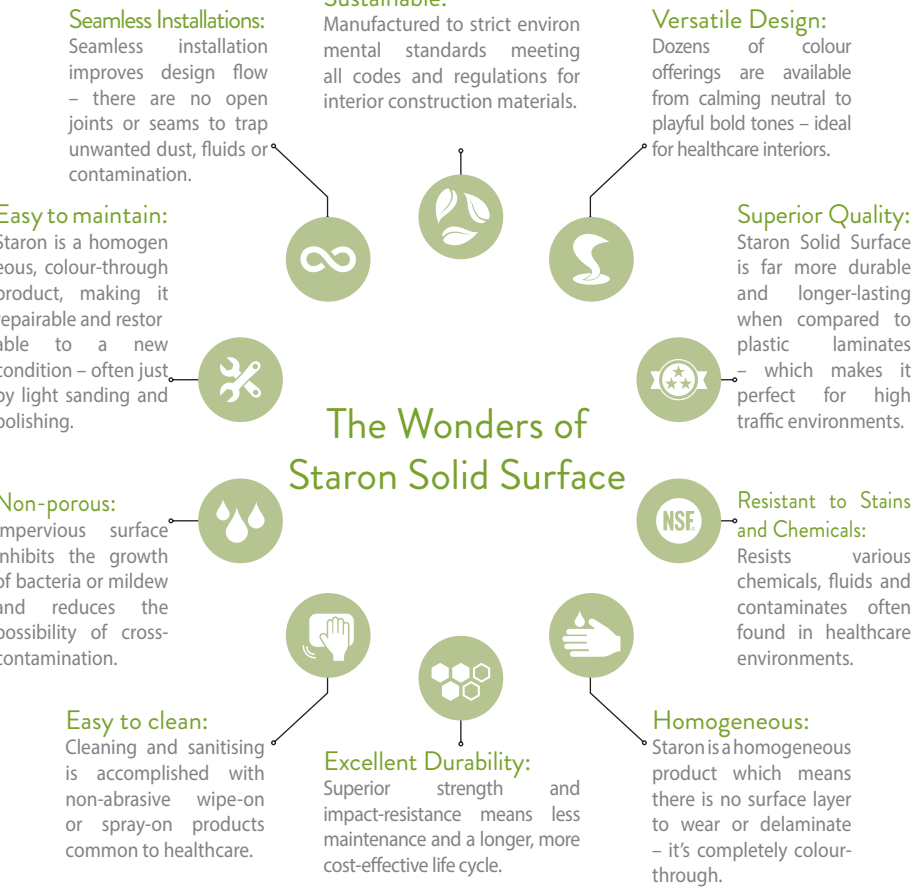
Angled mount



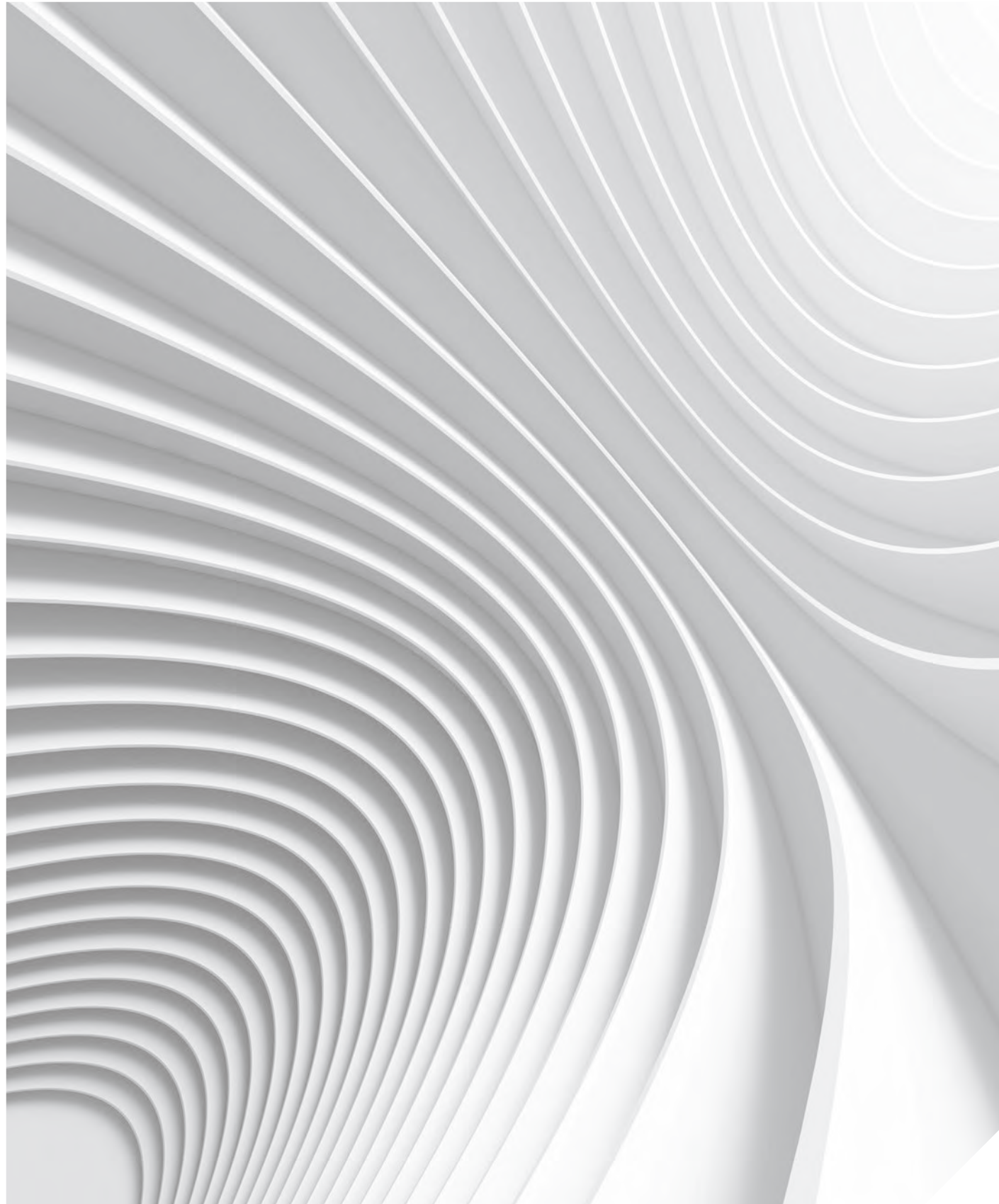
PERFECT SOLUTION FOR HEALTHCARE PROVIDER

Preventing the spread of infection starts at the surface

Staron acrylic solid surface is non-porous and not affected by moisture so it will not support the growth and spread of bacteria or mold. A seamless adhesive installation process eliminates gaps and crevices where pathogens could propagate – providing an extra level of hygiene. Cleaning and sanitising is easily accomplished with typical healthcare cleaning solutions.



TREATMENT & CARE



CARE & MAINTENANCE

STARON® SURFACES

STARON® offers you an easy-care, durable material that can be cleaned, maintained or repaired with little effort. The maintenance effort required for STARON® and its durable flawless surface in general depends on the colour and the selected finish. Brighter colours and matt finishes require less care than dark colours and glossy finishes.

For standard care and maintenance, wipe STARON® surfaces with a damp cloth or sponge on a daily basis.



Small scratches or stubborn stains on surfaces with matt or satin finishes can be removed by making circular movements with a wet sponge and scouring agent. Next, rinse with clear water and dry off with a dry cloth to avoid the creation of stripes.

Do not use abrasive cleaners, scrubbing sponges or wire wool for dark colours and glossy finishes. To avoid dulling down the gloss, only use a mild cleaner without abrasive and a soft cloth.

INSTRUCTIONS

Please adhere to the following instructions in case of damage, dirt or stains:

- Never put hot pots or pans on STARON® surfaces. To avoid heat congestion, always use heat-resistant supports or coasters with soft feet.
- Do not expose STARON® surfaces to aggressive chemicals or corrosive substances. Rinse immediately after contact.
- Do not leave staining foodstuffs or remains on the surfaces. Rinse immediately after contact.
- Avoid cutting on STARON® surfaces, always use a cutting board.

Your joiner-carpenter can repair deeper scratches or stubborn stains by grinding them down.



Disclaimer

The contents of this brochure have been prepared by the manufacturer with the utmost care. The contents are updated regularly and in a timely manner. Nevertheless, it cannot be excluded that the brochure might contain mistakes. Despite careful verification, the manufacturer cannot assume unlimited legal liability for the accuracy, completeness and up-to-dateness of this brochure. The manufacturer in particular does not assume liability regarding any damages or consequences resulting from the use of the contents provided.

FABRICATION

Due to the advantages of STARON® joiners and carpenters can easily work the material with woodwork tools. Apart from sawing, milling, drilling, gluing and grinding, Staron can also be formed thermally. The following instructions are the basis for optimal processing in accordance with the client's wishes.

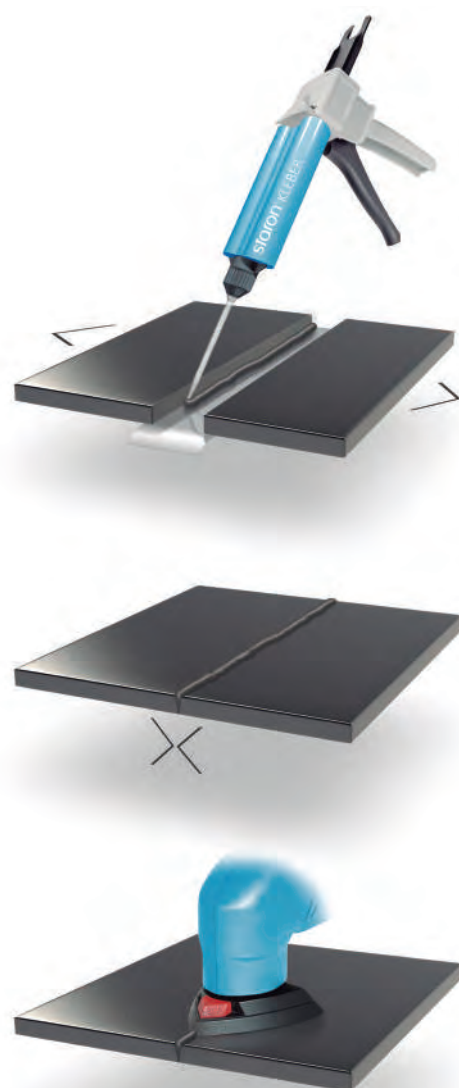
COMBINING WITH OTHER MATERIALS

Please use permanently elastic industrial glue to combine the product with other materials. When doing this, it is important to take into account the expansion coefficient of each specific material. Alternatively, screw connections with plastic dowels or undercut anchors can be used.



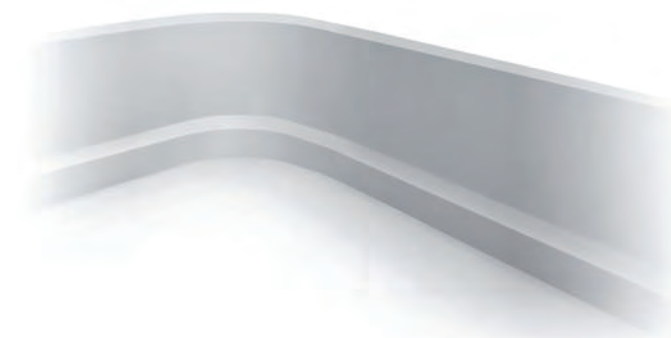
GLUING

STARON® panels are glued with a two-component adhesive that matches the colour of the panel. After the adhesive residues have been removed and the surface has been polished, the glue joints are almost invisible.



WALL CONNECTION PROFILES

The use of a hollow profile is recommended to obtain an optimal, joint-free wall connection profile. The best way to achieve this is to join the STARON® groove panel elements with STARON® glue. Next, smooth out the radius (e.g. 12.5 mm) with a groove milling tool.



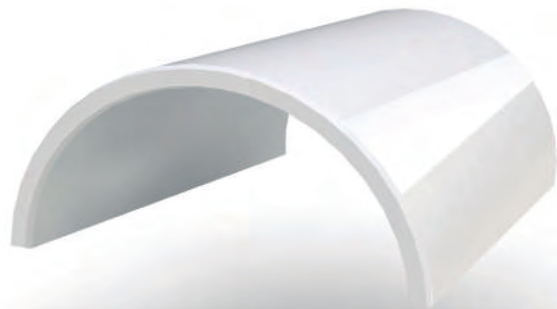
EXPANSION

Left: The material specific expansion coefficient of $35.0 \times 10^{-6}/K$ (corresponding to 1 mm per metre at a temperature difference ΔT of $30^\circ C$) must be taken into account for all applications.

FORMING

STARON® panels can be formed at 150°C, via either a vacuum or press process. In case of Super Flex, it can be thermoformed at lower temperature as 140°C - 150°C. The forming radius depends on material thickness and colour.

COLOUR	PANEL THICKNESS IN MM	RADIUS IN MM
Solid, Sanded	6	25
Solid, Sanded	12	76
Aspen, Pebble	12	127
Quarry, Metallic	12	203
Supreme	12	126
Super Flex	12	0



Tempest and Quarry colours are conditionally malleable. If you have any questions, please contact your STARON® Customer Services team.



CONFIGURATION OPTIONS

Backlighting, sublimation printing and inlays are optionally available with STARON®.

BACKLIGHTING

Almost all colours are suitable for partial backlighting of translucent logos or lettering. Full surface backlighting is possible for certain STARON® colours.

Milling out the STARON® panels creates optimal surfaces for LED backlighting for logos or design elements.



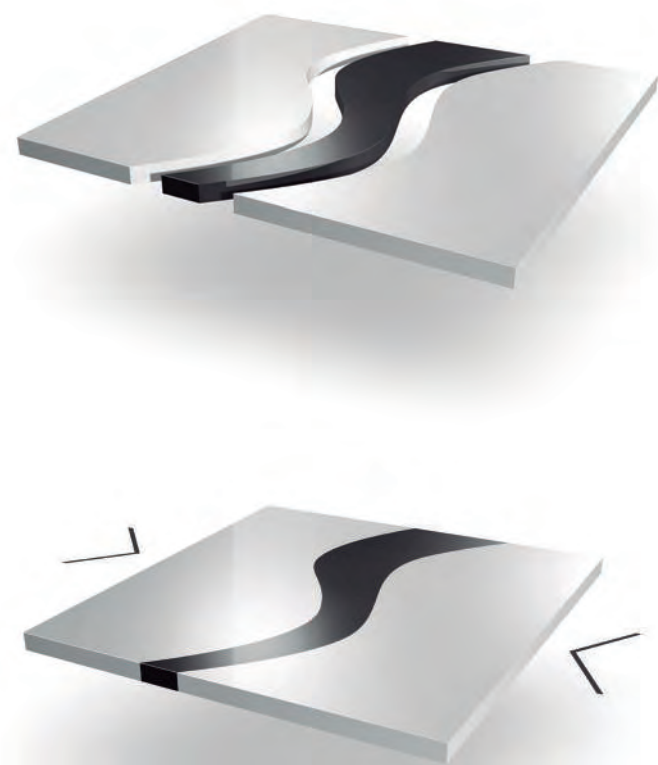
SUBLIMATION PRINTING

In a sublimation print process, images or colour pigments are pressed via heated paper foil onto the surface of the heated STARON® panel. The colour pigments remain abrasion-proof in the lower layer of the material, just like with tattooing.



INLAYS

After the milling process, different colour STARON® veins are glued together. The colour structures are retained and complement each other.



CASTING INLAYS

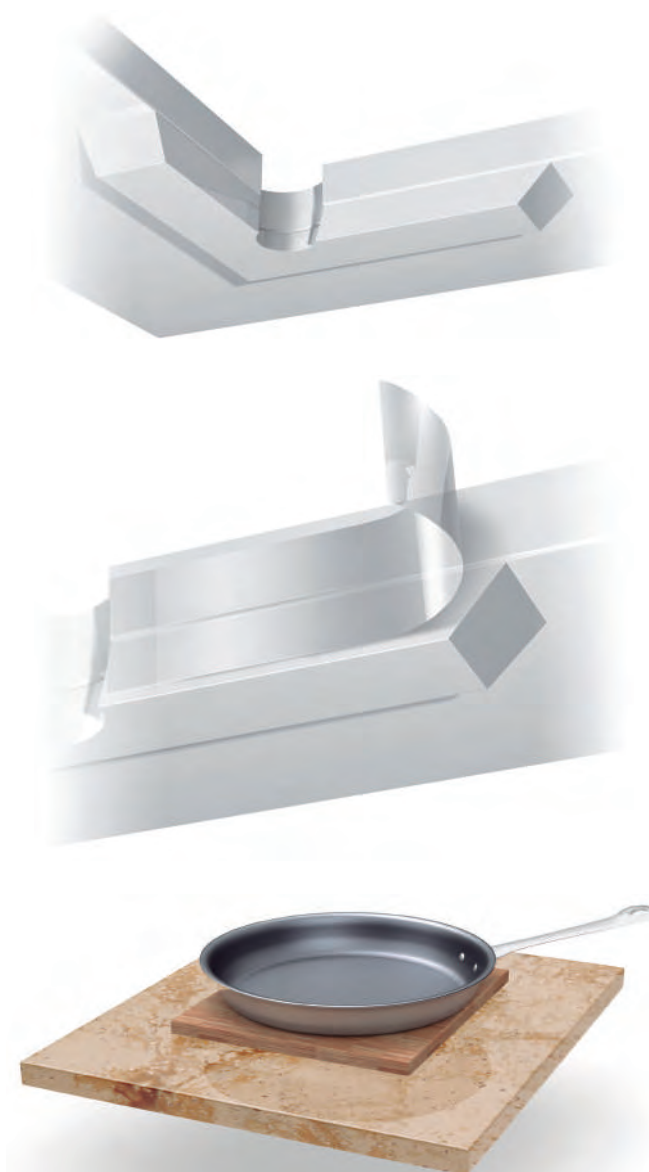
For smaller inlays, fill up the grooves in the panels with STARON® adhesive in the desired colour and grind off flush.



INTEGRATED HOBS

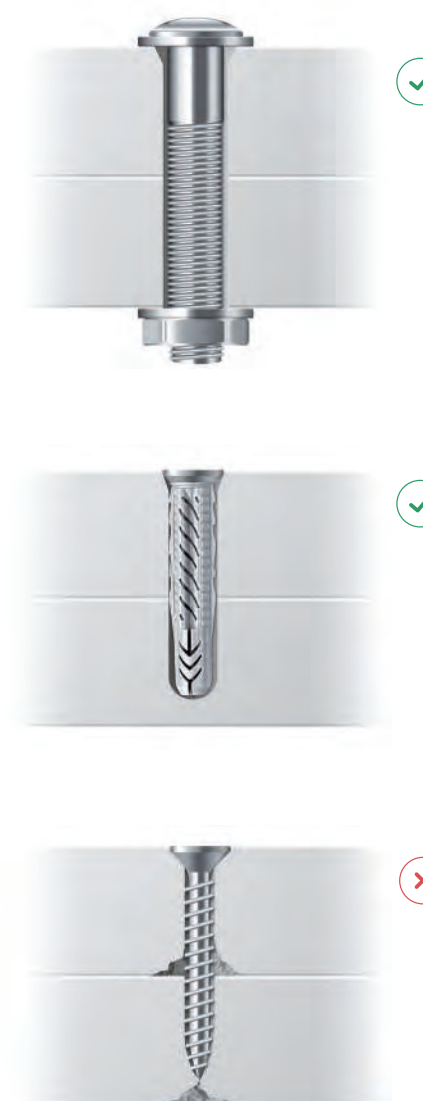
Please pay attention to the following when integrating hobs into STARON® panels:

- Shape the inner corners with tapered radius
- Reinforce the inner corners and cut-out areas with STARON® panel elements
- Mask the panel edges with heat-protection tape
- The use of a heat-resistant support is recommended to avoid heat congestion caused by hot pans etc.



SCREW FITTING

STARON® panels should never be screwed on directly or with self-tapping screws. Please use plastic dowels where possible. Alternatively, you can use penetrating screws or undercut anchors.



SURFACE FINISHES

MATT FINISH

Matt finish is the standard finish for surfaces subject to harsh environments or strain.



GLOSS FINISH

Gloss finish has a reflective gloss and requires, depending on use, more intensive care than matt or satin finishes, especially for darker colours. It is recommended to only use gloss finish for vertical areas.



SATIN FINISH

Satin finish has a high lustre and requires more care.



PRODUCT INFORMATION
TECHNICAL PROPERTIES

SORT	PROPERTY	TEST METHOD	UNIT	TEST RESULT
Fire resistance	Fire resistance (Euroclass)	EN 13501-1		B-s1 d0
	Fire resistance (Germany)	DIN 4102-1		B1
	Fire resistance (UK)	BS 476 part 6 & 7		class 0
	Fire exposure to roofs tests	EN 13501-5		Broof(t1)
	Fire Testing to Railway Components	DIN 45545-2		R1 for HL3
	Fire Testing to Marine interior application	MED IMO B, D		Approved
Mechanical property	Flexural modulus	DIN EN ISO 178	Mpa	9030
	Flexural strength	DIN EN ISO 178	Mpa	64.5
	Elongation at break	DIN EN ISO 178	%	0.83
	Compressive strength	EN ISO 604	Mpa	181
	Tensile strength	ASTM D 638	psi	6000
	Electrostatic surface resistance	EN 61340-4-1	Ω	>1x10 ¹²
	Electrostatic surface resistivity	EN 61340-5-1	Ω	960x109
	Dimentional stability at 20°C - gross	ISO 4586 p10	mm	-0.2
	Dimentional stability at 20°C - weight	ISO 4586 p10	%	-0.2
	Water absorption	ASTM D570		0,04% in 24h
	Thermal conductivity	DIN EN 12664	W/(m.K)	0.53 ~ 0.57
	Thermal resistance	DIN EN 12664	m².K/W	0.083 ~ 0.092
	Thermal expansion	ASTM D 696	mm/mm°C	3.6 * 10-5
Physical property	Density	DIN ISO 1183	g/cm³	1.74
	Impact resistance (Spring force)	DIN EN 438-2	N	>25
	Impact resistance (Height)	DIN EN 438-2	cm	180
	Surface hardness(Moh's index)	DIN EN 101		2-3
	Resistance to wear and tear	ISO 4586 p6	g /%	0.56 / 0.26
	Anti-slip properties with 100µm	DIN 51130:2009-5		R9
	Anti-slip properties with 120µm	DIN 51130:2009-5		R9
	Anti-slip properties with 150µm	DIN 51130:2009-5		R9
	Light fastness	DIN EN 15187:2006	Blue wool scale	> 6
	Load test	EN ISO 19712-2		No cracks/ 0,10 mm
	Resistance to cigarette burns	EN ISO 19712-2		3
	Resistance against dry heat	EN ISO 19712-2		3
	Resistance against wet heat	EN ISO 19712-2		5
	Resistance against temperature changes	EN ISO 19712-2		Section 4, passed
	Chemical resistance	EN ISO 19712-2		Method A
	Antibacterial and fungistatic	DIN EN ISO 846 A/C ASTM G 21, G22		No Growth
Special usage	Facade fixing authorisation	ETA-16/0091		KEIL / Undercut anchor
	Food equipment materials	NSF/ANSI³ 51 (Food Zone)		Approved

Certificates, test results and information about the properties of Staron® can be obtained upon request from STARON® Customer Services.

LOTTE WORLD TOWER



LOTTE

LOTTE is a global Korean company. Founded 50 years ago in Seoul, South Korea, the company has successfully developed through acquisitions and partnerships to become a world leader in the chemical, construction, tourism, retail, finances and food industries.

Lotte Chemical Corp., formerly Cheil Industries, established in 1954 as the founding parent company of the Samsung Group, kicked off its chemical business as part of its portfolio expansion strategy. In 1992, the company started its solid surface business and in 2009 made a foray into manufacturing of engineered stone (quartz surfaces) in a move to strengthen its business portfolio further. In May 2016, the company was renamed as Lotte Chemical Corp., a move forward toward achieving a greater vision of becoming a global supplier of high-quality, decorative surfacing materials.

A brand that cannot be overlooked: With its 555 metres, the LOTTE World Tower in Jamsil-Dong, Seoul, is the highest building in Korea and the 6th highest in the world. The impressive complex surrounding LOTTE World Tower includes a mall, hotels and a theme park.

LOTTE CHEMICAL DEUTSCHLAND GMBH

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