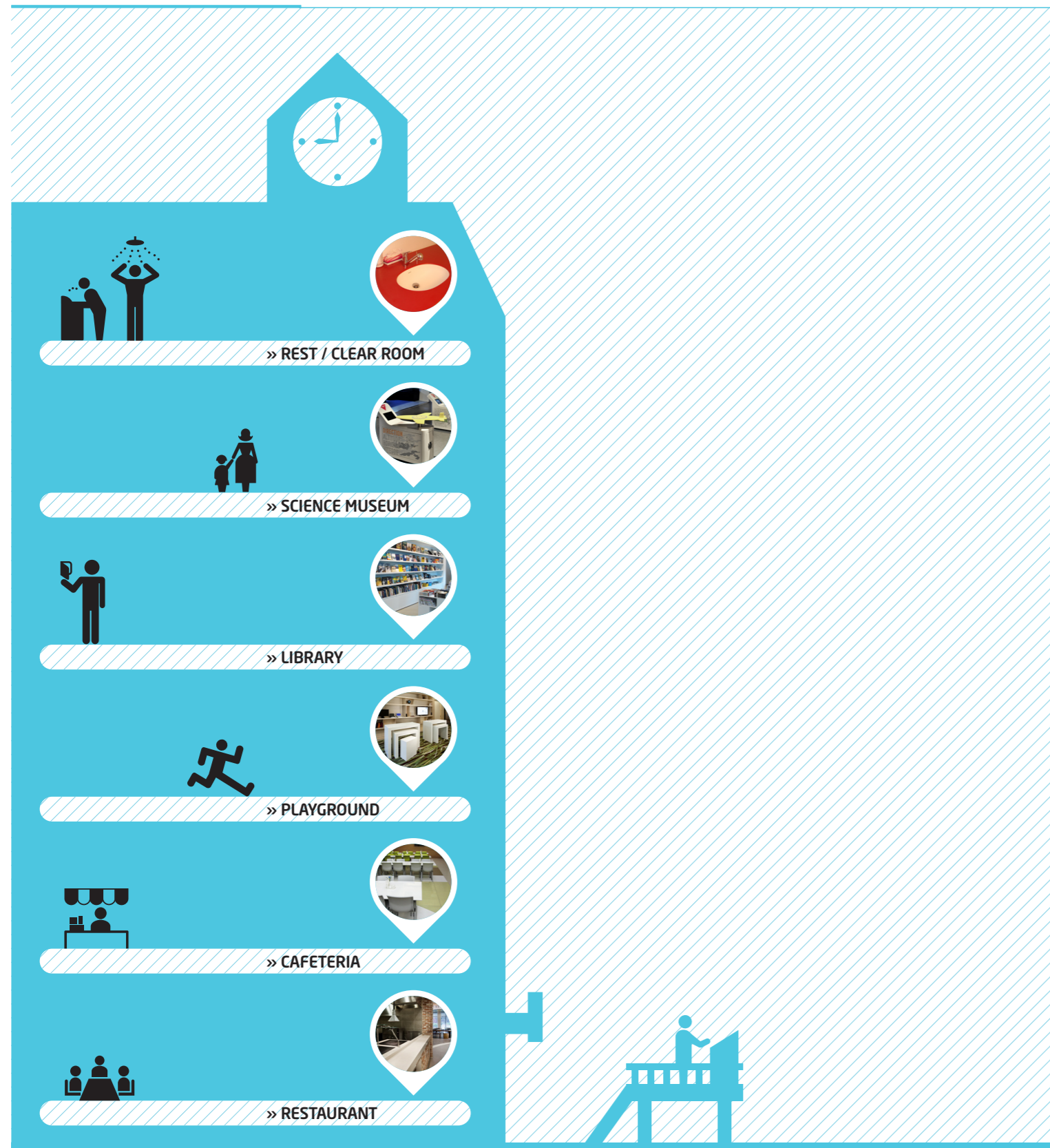


SAMSUNG

Education

Architectural Manual

staron[®]
Solid Surfaces



Staron makes healthy spaces for your children

Elegant textures and variety of colors

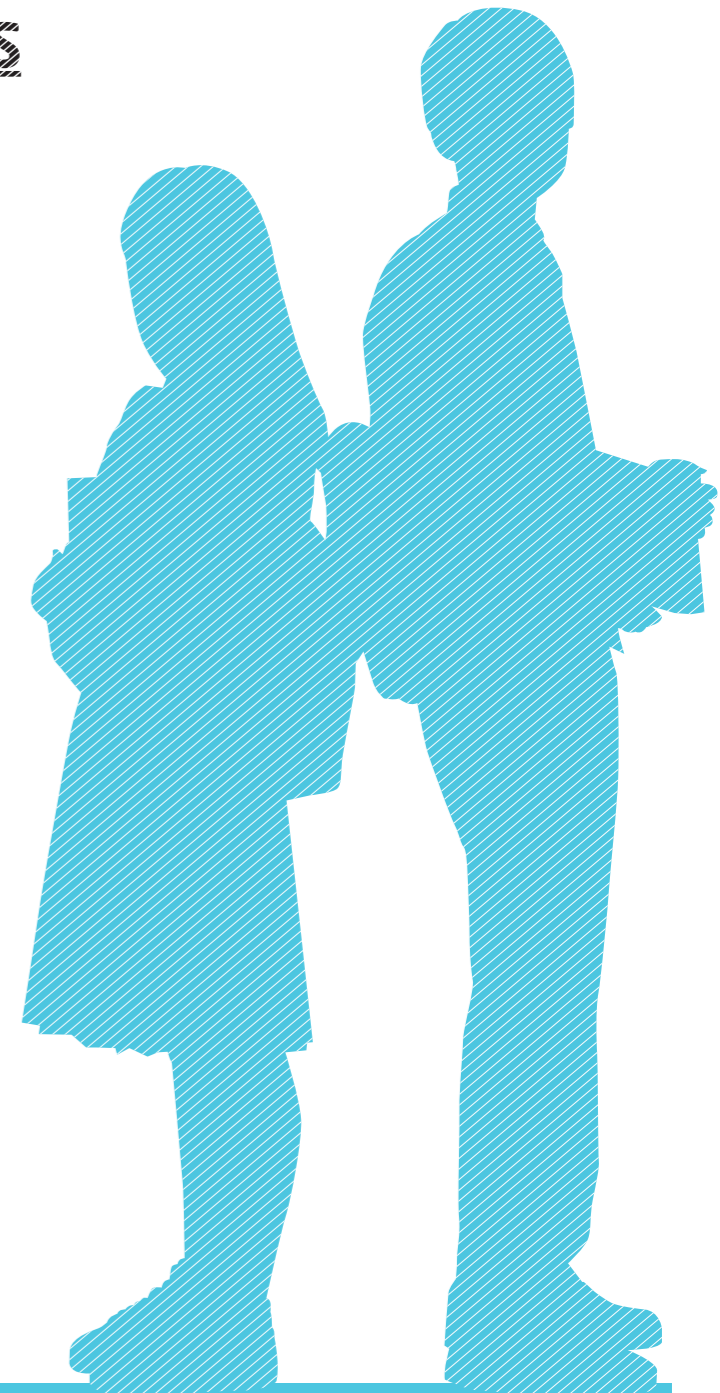
Staron materials exceed natural translucent stone with its warm, soft textures elevating any interior design of the highest quality. Upgrade your interiors with any imaginable design idea that can be expressed by the myriad of colors and patterns.

Non-porous highly hygienic material

Unlike natural stone surfaces, Staron is non-porous and impervious to moisture, making them highly resistant to bacterial growth. Most pollutants can be easily removed from the surface with soap and water.

Excellent workability and implementation of various designs

Staron is extremely durable but also can be easily handled by using wood working tools and thermo processes to create various cuts and shapes. In addition, with the use of adhesives, seamless joints can be created. It also works harmoniously with other materials such as wood and metals and offer endless possibilities.

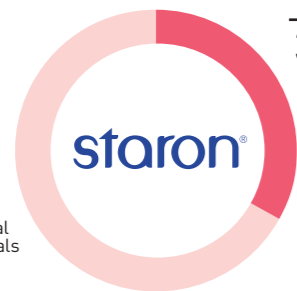




STARON, Make a safe place for kids

Staron, a gift of a healthy environment
where we can foster our children's dreams.

Staron solid surface can be easily adapted into a variety of classrooms. From kindergarten to university facilities, we strive to produce clean and hygienic spaces where the future dreams of our students can be realized.



$\frac{2}{3}$ Natural minerals

$\frac{1}{3}$ Acrylic resin

Desk, Chair | Class room | Laboratory | Cafeteria, snack bar | Lobby
Rest room | Health care | Play room | Sink | Restaurant | Library





How to do
STARON



Bacterial growth resistant 4 weeks of bacterial growth results showed no increase in bacterial growth. Staron is the optimal material choice for children who have weak immune systems.

Samsung Human Resources Development Center in Korea

A delicious dining space for our rapidly growing children

The dining space where our children eat their delicious meals every day must be a healthy and safe venue. It must also be a place that is clean, sanitary and easy to maintain for the facility management team. Unlike other finishing materials, Staron solid surface offers non-porous surfaces where it is impervious to moisture and resists bacterial growth and other contaminants from penetrating the surface. It is also stain resistant and cleans easily. Staron solid surface is often used for dining tables, buffet tables and various food serving counters. We take responsibility of the healthy lifestyle for your children.



Cheil Industries HQ in Korea



Samsung Human Resources Development Center in Korea



The University of Edinburgh in U.K



NZZ shop in Switzerland



Samsung Human Resources Development Center in Korea



Staron's class A accreditation as a fire retardant material. Making safe spaces where our children study.

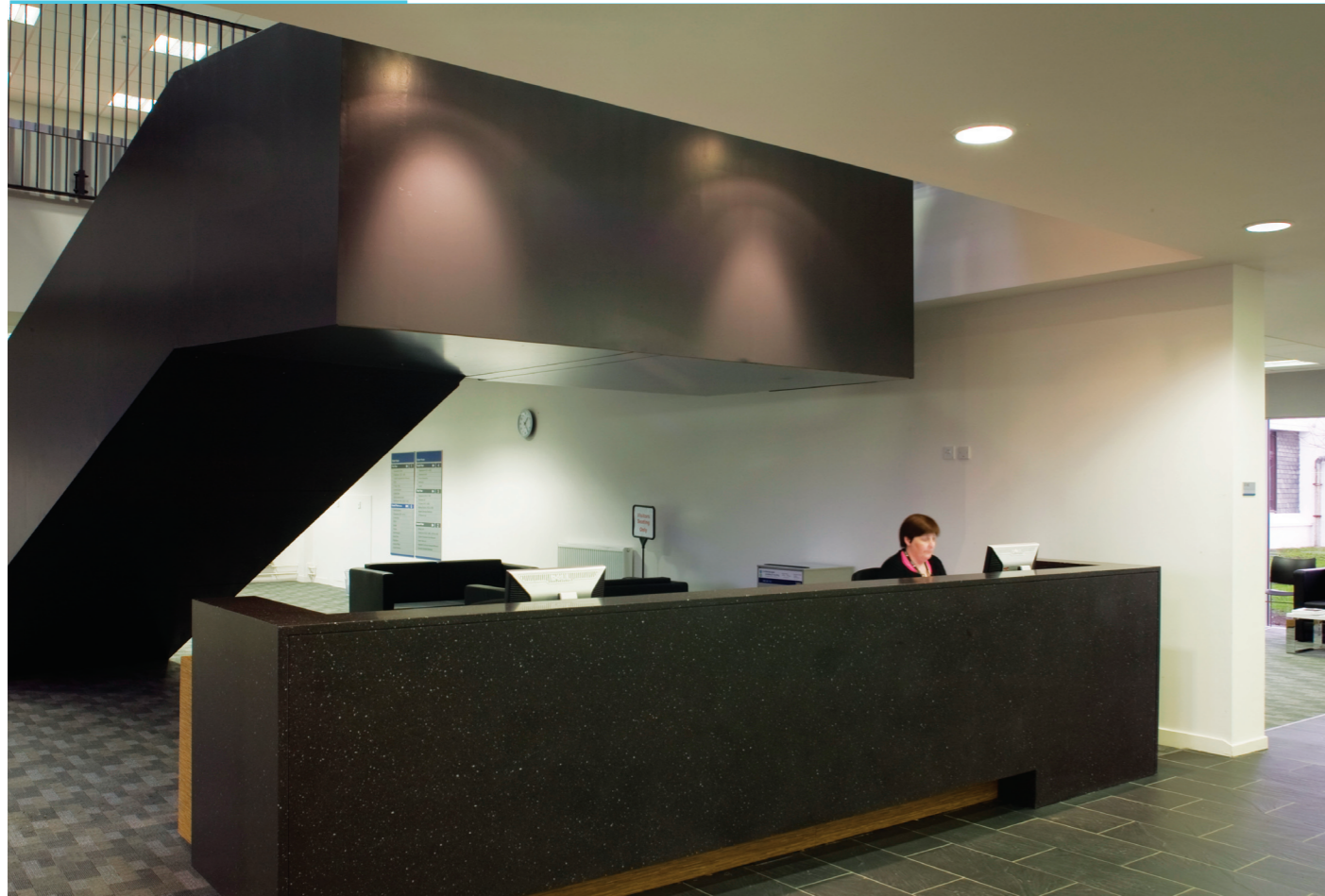
Staron was awarded the highest rating 'Class A' (ASTM E84) for its flame retardant finish, interior walls and surfaces. ASTM E84 standards are commonly used for testing low flame spread and smoke density of building materials often suitable for the high safety standards of hotel building materials.

 Class A fire safety material, Staron

- Test : ASTM E84
Surface burning characteristics of building materials

Item	Flame spread	Smoke density
Drywall (Gypsum board)	15	0
Wood Particle Board	155	200
STARON	10	10
Glass Fiber Panels	70	500+
Laminates, Plastics	70	35
Hard Board	150	400





The University of Edinburgh in U.K



Eco-friendly certified Staron, building healthy spaces where our children's dreams grow

Staron is greenguard® certified as an eco-friendly interior building product. Greenguard certifications test for potential off-gassing of volatile organic compounds (TVOCs) and passing this standard makes Staron an ideal material to use in public facilities such as hotels and resorts.

In addition, Staron® recycled series products are compliant to SCS eco-friendly production processes to reduce industrial waste and energy consumption (LEED® MR Credits 4.1 and 4.2).



The University of Edinburgh in U.K



Aerospace Museum in France



We help you build the space where your children dream of their future, where they can experience their environment with a touch.

Staron solid surface offers various forms and shapes with the acrylic faux marble process. Many surfaces types are possible with Staron when developing education equipment and space for children.

🔧 The possibilities of thermoformed surfaces

Pattern	Thickness(mm)	Min. Inside radius(R)
Solid, Sanded	6mm	25mm
	12mm	76mm
Aspen, Pebble	6mm	102mm
	12mm	127mm
Quarry, Metallic	12mm	203mm



Aerospace Museum in France



Aerospace Museum in France



Aerospace Museum in France

Kids develop their creativity in their play areas.

Staron solid surface is a durable material that is impact resistant and can withstand heavy uage. Children can runaround and freely play without damaging the product. It is an ideal interior material for spaces where children are actively engaged in their movements and learning to be creative. Staron builds the creative spaces for your children.

How to do STARON



Superior durability Staron is made of acrylic material that is stronger than ordinary laminated plastic materials and can be used for an extended period of time. In addition, when there is severe surface damage or contamination, it can be easily maintained through sanding.





300 different color choices to brighten your children's sense of creativity.

Enhance your children's EQ (Emotional Intelligence) with the variety of color types from Staron. Bring rich colors to pull the curiosity of children and create a vibrant space for their active minds.



COLOR THERAPY

Using color therapy, you can bring balance to a person's mind and body.



Kindergarten 'Tilleuls Prilly' in Switzerland



Kindergarten 'Tilleuls Prilly' in Switzerland



Samsung Human Resources Development Center in Korea



Chemical testing results

We conducted chemical tests on various surface contaminations prone to exist in Education space. These contaminants were dropped onto the surface and covered with glass plates for 16 hours. Surfaces of these areas were then scrubbed with damp pads with detergent and tested for the results.



Contaminants

- Ball point pen • Washable ink
- Aceton • Ethanol • Coffee
- Lemon juice • Shoe polish • Tea
- Soy sauce



Result

Most pollutants can be easily removed from the surface with damp pad with neutral detergent.

Comparing Staron to other products

Staron is durable but also easy to work with.

The differentiating advantages are its reliable quality and ease of use unlike other products.

Attributes	Staron solid surface	Polyester solid surface	Engineered stone	Granite	Stainless steel
Ease of maintenance/ Cleanability and repair	3	3	2	1	2
Does not support microbial growth	3	3	3	1	3
Nonporous smooth	3	3	3	1	3
Low flammability	3	2	3	3	3
Durable	3	3	3	3	3
Low VOC	3	3	3	3	3
Low smoke toxicity	3	1	3	3	3
Initial and life cycle cost effectiveness	3	3	3	1	2
Slip resistance-appropriate coefficient of friction	3	3	3	3	2
Ease of installation, demolition, replacement	3	3	1	1	2
Seamless appearance	3	3	1	1	3
Control of reflectivity	3	3	2	2	2
Option for color, pattern	3	3	3	2	2
Nontoxic, non-allergenic	3	3	3	3	3



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