


SAMSUNG

Wallcovering

Architectural Manual

staron[®]
Solid Surfaces



A first impression of a structure, complete it with Staron.

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.

Strict quality control

Cheil Industries has strict quality control standards in order to supply superior products. We will present Staron's consistent properties and satisfy you with a stable quality.

Excellent workability and implementation of various designs

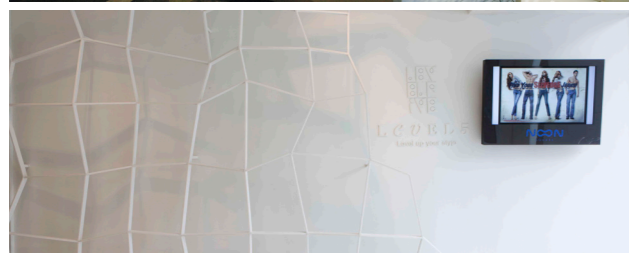
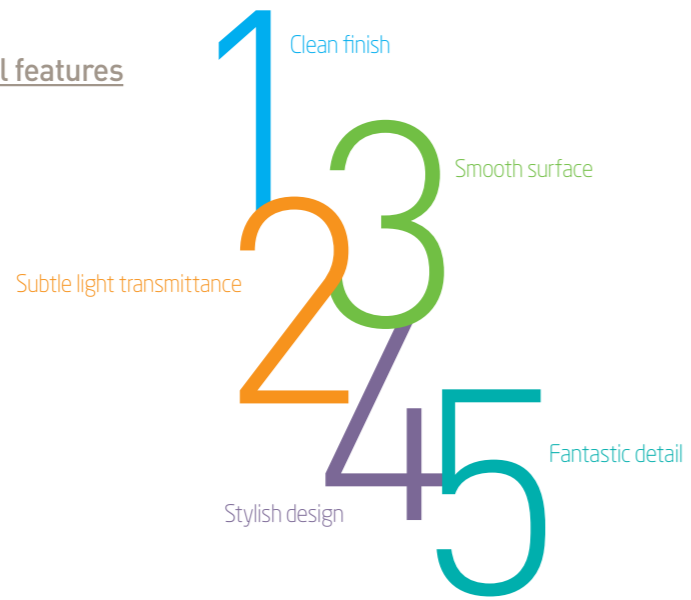
Staron is extremely durable but also can be easily handled by using wood working tools and thermo processes to create various cuts and shapes. In addition, with the use of adhesives, seamless joints can be created. It also works harmoniously with other materials such as wood and metals and offer endless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

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.

WALLCOVERING

Staron,
5 special features



- Flexible bending, impact resistant quality that has superior durability
- Resistant to pollutants, easy to maintain material
- Low water absorption and flame retardant (Certified ASTM 84)



KUHO shop in Jeju in Korea

1

CLEAN FINISH

A smart durable material

As an exterior finish, durable Staron is impact resistant with easy to restore in case of damages. Although Staron is not physically affected by the impact of the environment, over time, there may be slight changes to the gloss surface. To recover the original feel of the surface, you can easily apply light sanding and polish.



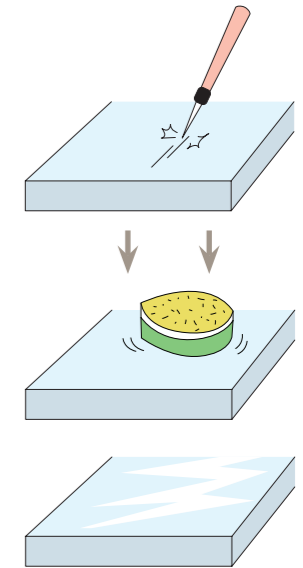
KUHO shop in Jeju in Korea



Hublot in France



TECHNICAL SOLUTION



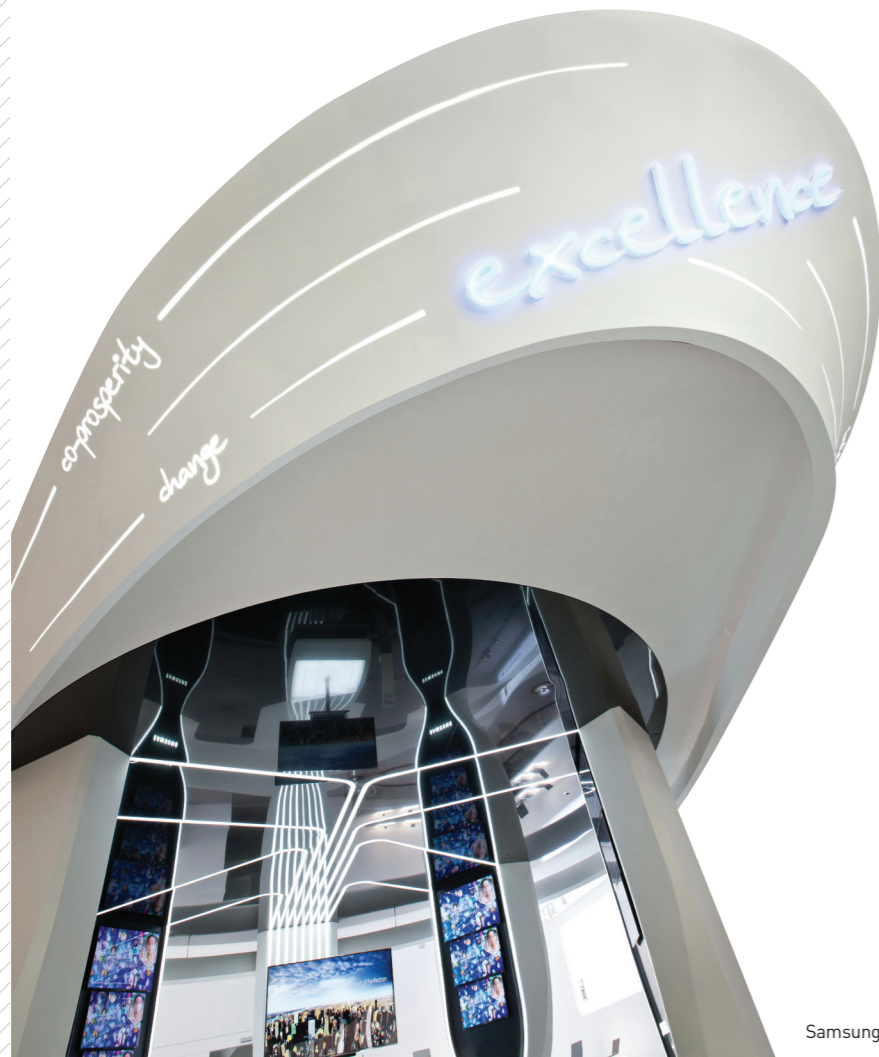
Durable against external impact

If used as an exterior material there will be some physical damage and subject to change over a period of time but against other comparable products, Staron will shine as a strong durable option. In case of cracks and surface damage, use of a scotch-brite pad can easily restore the exterior finish for a long time.

2 SUBTLE LIGHT TRANSMITTANCE

Fantastic light effects

Staron solid surface light transmittance varies depending on the thickness of the acrylic solid surface. Adjusting the amount of light depends on the processing of the outer wall and can produce a variation of effects to the interior.

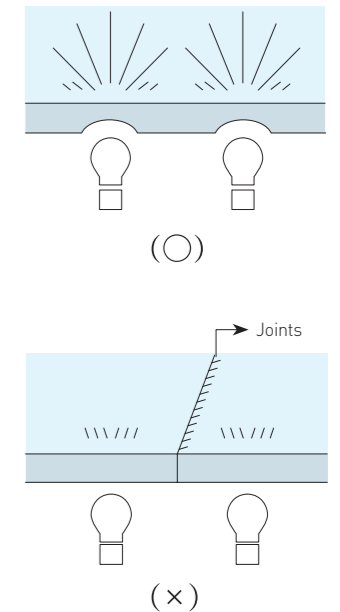


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Olympia Stadion in Germany

TECHNICAL SOLUTION



subtle light transmittance

Staron's material thickness affects the illumination of the light. Depending on the space, the level of light emitted can be modified to create a fantastic look to the interior space. If the light is illuminated in the seams or causes thermal expansion and contraction, it can damage the lighting installation so it is advisable to avoid these areas.

3

SMOOTH SURFACE

Staron, reproducing your imagination

Staron solid surface can fully implement the designer's imagined space. Numerous surface treatments are freely available and you can transform the material into various shapes to breathe new life onto the outer wall. You are no longer limited to the simple outer wall but evolve into a designer surface.

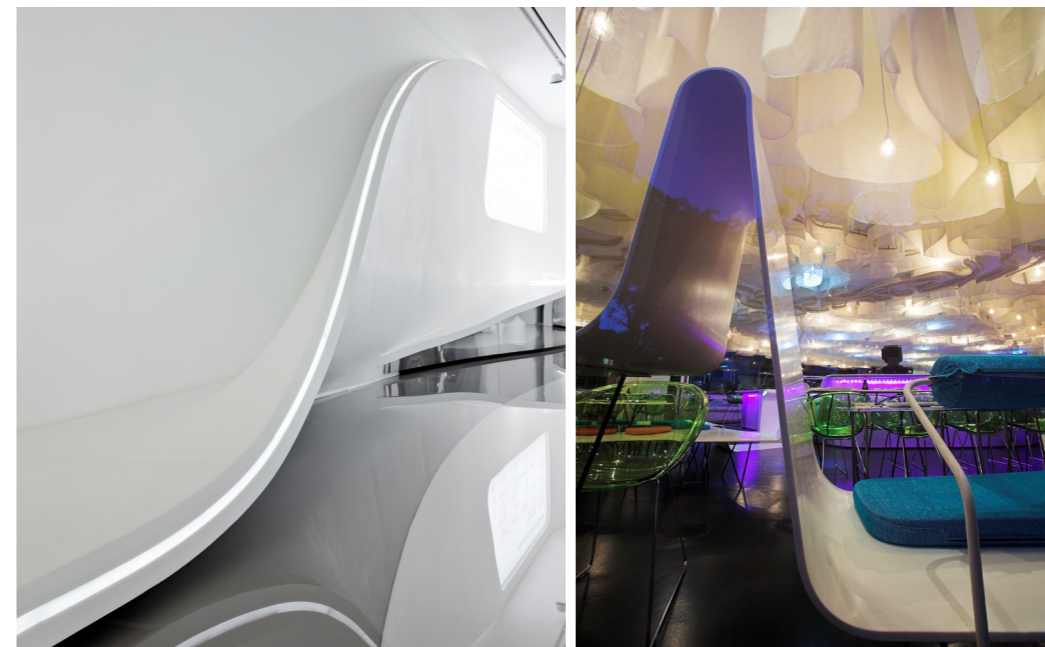
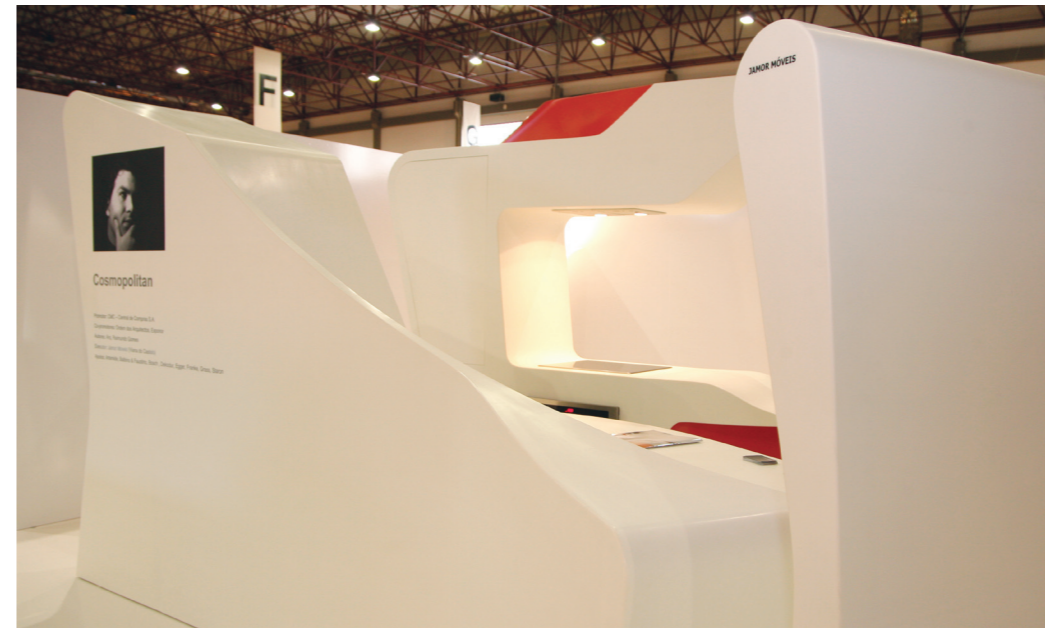
Meet Staron.

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



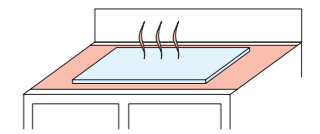
Shoes Shop in Greece



Samsung Human Resources Development Center in Korea

Sushi Bar in Cyprus

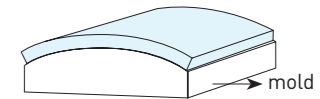
TECHNICAL SOLUTION



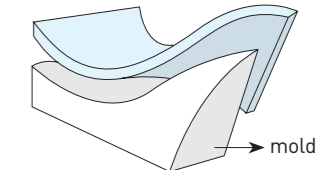
HEATING(Using Oven)



2D process



3D process



Smooth surface construction

One of the properties of Staron sheets is that it is flexible when heated under a constant temperature.

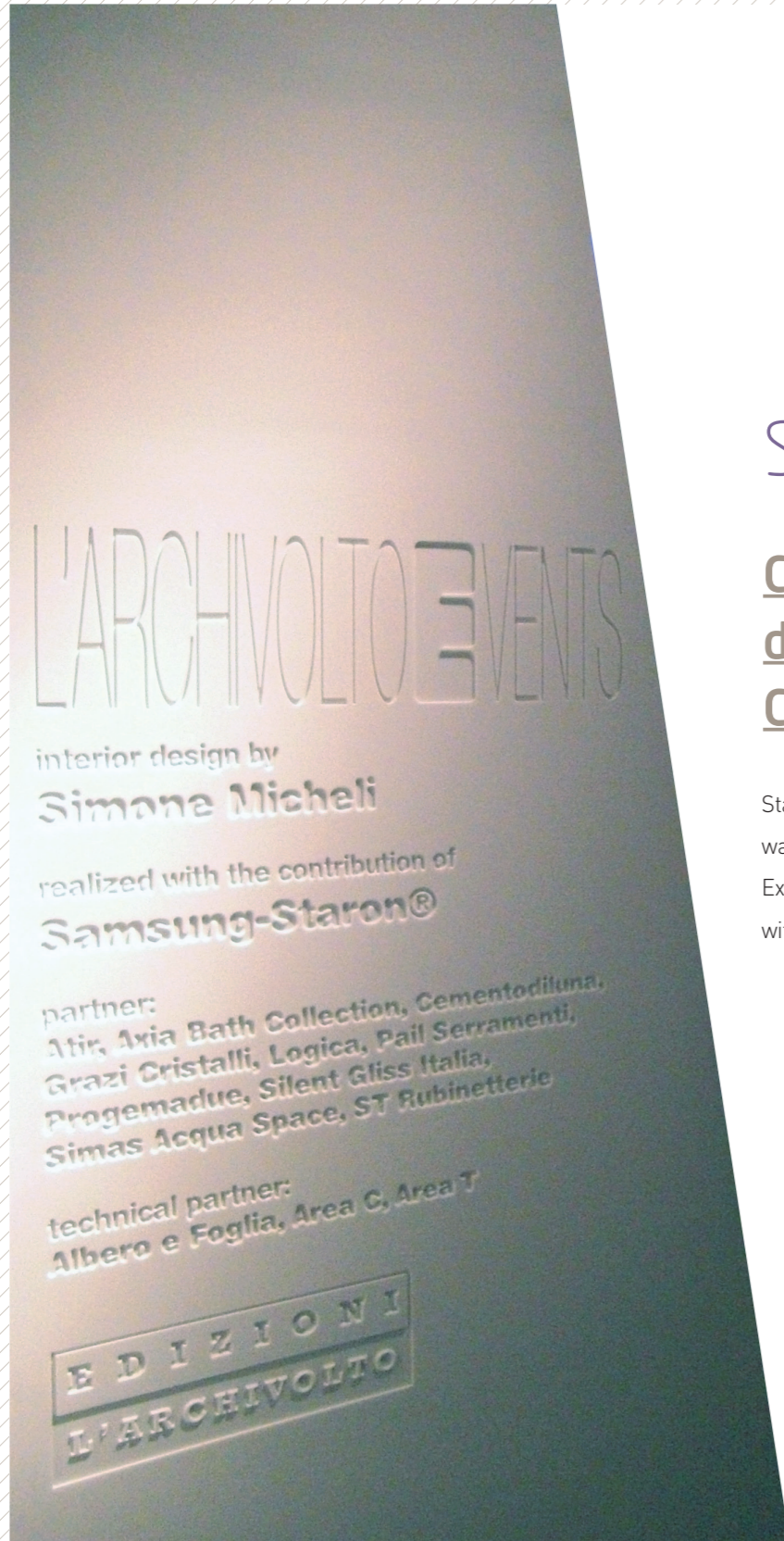
In its flexible state it can be shaped in a mold to create 2D or 3D form to create a smooth surface.

4

STYLISH DESIGN

Cloth the wall with design using the CNC machining process

Staron solid surface brings new changes to the interior walls that merely served as part of a building structure. Experience the transformation of the interior wall space with Staron.



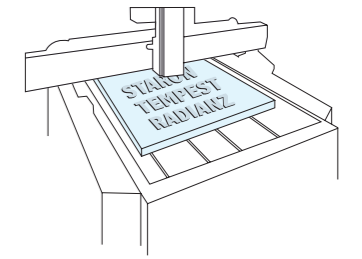
Samsung Human Resources Development Center in Korea



Noon Square in Korea



TECHNICAL SOLUTION



Freely using CNC machining process

Unlike the existing natural stone, Staron can be used with CNC machining to process precision grooving, letters and more and is easy to work the finer details. It can embody the best of what the designer wants.

CNC machining is a method of measuring the fabrication on a computer.

5

FANTASTIC DETAILS

Details come to life as a work of art, Staron

Staron solid surface is differentiated from other interior materials for its rugged functionality and versatility of use that can implement a designer's creative touch into a space. Meet the meticulous details of the newly born outer wall. We create a new style and dimension to the outer wall you have known in the past.

Noon Square in Korea



Noon Square in Korea



Office in Switzerland



Noon Square in Korea

TECHNICAL SOLUTION



Fantastic details

Staron solid surface is capable of constructing a wide variety of products that is delicate and detailed.

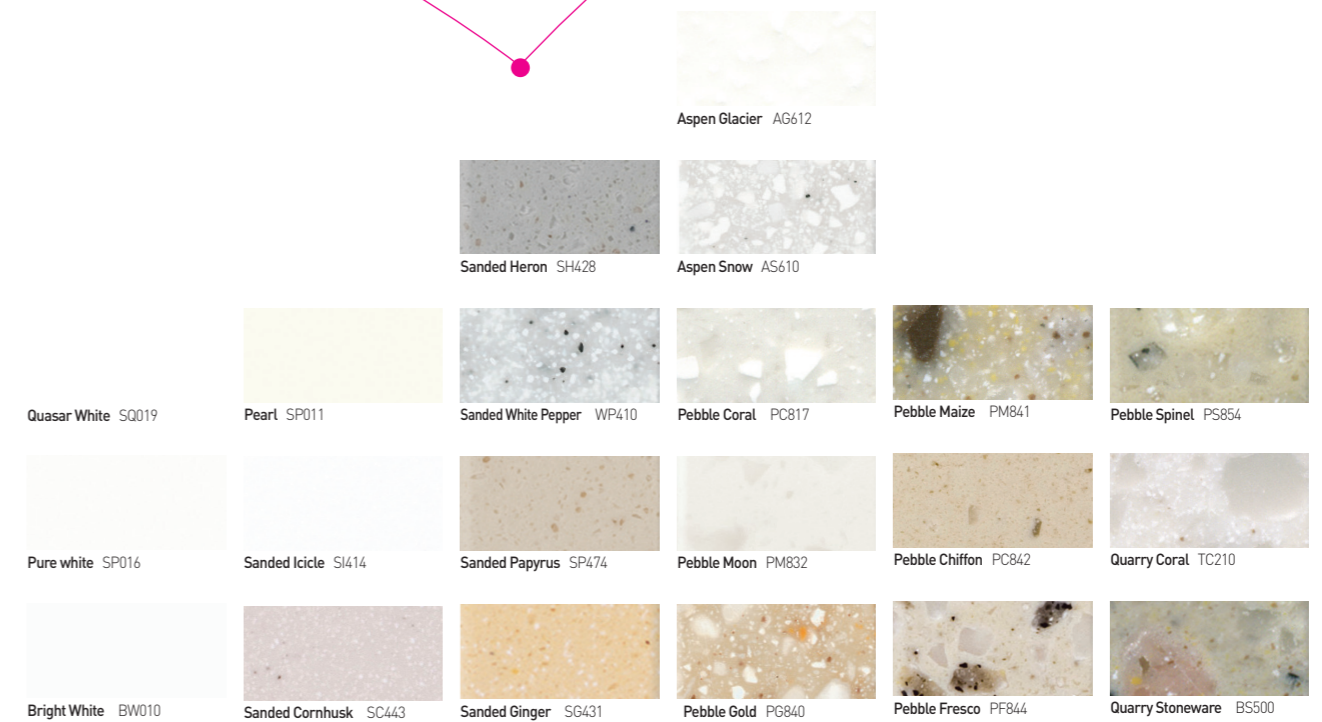
Special exterior!
Staron will create a special beauty



KUHO shop in Jeju in Korea

COLORS OF **WALLCOVERING**

Staron recommends the following exterior colors.



If you want an unique architecture, you have to cautiously select the best exterior material.
 If you want a clean seamless urban style or a fresh interior, Staron can fully satisfy your needs.
 Staron Exterior is looking outside the existing framework and into new changes for the most discerning customers.

 **Class A fire safety material, Staron**

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.

• **Testing method**

ASTM E84 (Surface burning characteristics of building materials)

• **Staron results**

Class A (Flame spread 10, Smoke density 10)

• **Other test results**

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



 **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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