TECHNICAL DATA

Staron® Recycled Series

staron Solid Surfaces

SN-316-2020

Staron®, a division of worldwide technology leader Lotte Chemical Corp., offers a range of Staron® solid surface products **'Staron® recycled series'** that are **SCS Material Content Certified**.

Staron® recycled series products are manufactured using Pre-consumer Recycled Content, resulting in a reduction of industrial waste and energy consumption utilized during the manufacturing process. Using recycled content helps conserve energy and resources, alleviates pressure on landfill space and reduces the need for transportation during certain phases of a product's life cycle.

In addition to SCS Certification, all Staron® colors including Staron® recycled series feature **GREENGUARD** and **GREENGUARD Children & Schools certification** and is listed as a low-emitting interior building product, further adding to its eligibility as a contributing product toward LEED points.

Staron® RECYCLED SERIES

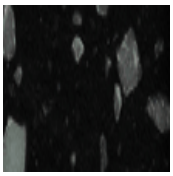
Pebble Caper
Minimum 1%

Aspen Cliff
Minimum 1%

Aspen Alder
Minimum 1%

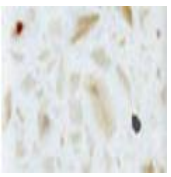
Aspen Lily
Minimum 1%

Sanded Heron
Minimum 1%



Pebble Ebony
Minimum 1%

Tempest Caraway
Minimum 1%



Tempest Horizon
Minimum 1%

Tempest Twilight
Minimum 1%

Solid Bright White
Minimum 1%

Solid Sunflower(N)
Minimum 1%

Aspen Pepper
Minimum 2%

Aspen Iceberg
Minimum 2%

Solid Quasar White
Minimum 2%

Pebble Chocolate
Minimum 2%

Tempest Pinacle
Minimum 4%

This Technical Bulletin is intended to provide guidelines for optimal fabrication, installation, and performance of Lotte Chemical Corp. products mentioned. Though the information contained herein is deemed reliable, none of the contents--including but not limited to the instructions, techniques, graphics, and recommendations--is to be understood as implying legal liability of fitness for a specific purpose, any other type of warranty, or being complete or absolute in its range and nature of information.
Depending on the user's particular application, all necessary measures must be taken to verify and test the adequacy for such needs or application. Any information or recommendation herein is strictly for purposes of reference and as such, Lotte Chemical Corp. assumes no responsibility for its suitability or accuracy or the use of such information for products other than Lotte Chemical Corp. Staron® solid surfaces & Radianz® quartz surfaces.

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The following information will assist architects, specifiers, and designers who pursue the LEED Green Building Rating System for New Construction and Major Renovations using Staron® solid surface as components to interior architecture, casework and surfaces:

The LEED 2009 Green Building Rating System for New Construction and Major Renovations is a set of performance standards for certifying the design and construction of commercial or institutional buildings and high-rise residential buildings of all sizes, both public and private. The intent is to promote healthful, durable, affordable, and environmentally sound practices in building design and construction.

Materials & Resources (MR) Credit 4: Recycled Content (1–2 Points)

Intent

To increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

Requirements

Use materials with recycled content such that the sum of postconsumer recycled content plus 1/2 of the preconsumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project. The minimum percentage materials recycled for each point threshold is as follows:

Recycled Content	Points
10%	1
20%	2

The recycled content value of a material assembly is determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value.
Mechanical, electrical and plumbing components and specialty items such as elevators cannot be included in this calculation. Include only materials permanently installed in the project. Furniture may be included if it is included consistently in MR Credit 3: Materials Reuse through MR Credit 7: Certified Wood.

Potential Technologies & Strategies

Establish a project goal for recycled content materials, and identify material suppliers that can achieve this goal. During construction, ensure that the specified recycled content materials are installed. Consider a range of environmental, economic and performance attributes when selecting products and materials.

Staron® Recycled Series

Sanded cream color of the Staron® solid surface are third-party certified by SCS. These products contain a percentage of pre-consumer recycled materials that are diverted from the waste stream during the manufacturing process; thereby, reducing the processing of virgin materials. The products can help to earn LEED® Credits in the category under Materials & Resources (MR) Credit 4.

Materials & Resources (MR) Credit 3: Materials Reuse (1–2 Points)

Intent

To reuse building materials and products to reduce demand for virgin materials and reduce waste, thereby lessening impacts associated with the extraction and processing of virgin resources.

Requirements

Use salvaged, refurbished or reused materials, the sum of which constitutes at least 5% or 10%, based on cost, of the total value of materials on the project. The minimum percentage materials reused for each point threshold is as follows:

Recycled Content	Points
5%	1
10%	2

Mechanical, electrical and plumbing components and specialty items such as elevators and equipment cannot be included in this calculation. Include only materials permanently installed in the project. Furniture may be included if it is included consistently in MR Credit 3: Materials Reuse through MR Credit 7: Certified Wood.

Potential Technologies & Strategies

Identify opportunities to incorporate salvaged materials into the building design, and research potential material suppliers. Consider salvaged materials such as beams and posts, flooring, paneling, doors and frames, cabinetry and furniture, brick, and decorative items.

Staron® solid surface

Staron® solid surface is easily repaired or refinished to original condition, thus minimizing replacement or disposal. These surfaces may also be redesigned and refabricated into entirely new products.

ID Credit 1: Innovation in Design (1–5 Points)

Intent

To provide design teams and projects the opportunity to achieve exceptional performance above the requirements set by the LEED Green Building Rating System and/or innovative performance in Green Building categories not specifically addressed by the LEED Green Building Rating System.

Requirements

Credit can be achieved through any combination of the Innovation in Design and Exemplary Performance paths.

Potential Technologies & Strategies

Substantially exceed a LEED 2009 for New Construction and Major Renovations performance credit such as energy performance or water efficiency. Apply strategies or measures that demonstrate a comprehensive approach and quantifiable environment and/or health benefits.

Staron® Solid Surfaces

Engineering of finished products incorporating Staron® solid surface materials may help reduce waste through custom sizing, while also reducing waste and labor. The materials may also be integrated into modular designs allowing for additional flexibility.

INDOOR ENVIRONMENTAL EQUALITY

Staron® solid surface has passed the requirements of two **GREENGUARD** certification programs. **GREENGUARD Indoor Air Quality Certified® product** certification is granted for low-emitting interior building materials, furnishings and finish systems. The more stringent **GREENGUARD for Children & Schools℠ certification** is granted for low-emitting interior building materials, furnishings and finish systems used in educational (daycare and K-12) environments. The positive results streamline the process for attaining points toward **LEED®** for Commercial Interiors certification in its Environmental Quality (EQ) 4.5 section. Any architect, builder or developer who includes **GREENGUARD**-certified Staron® solid surface products in commercial, institutional or multi-family housing projects will no longer have to wait for the otherwise lengthy **LEED®** certification process for its “Low-Emitting Materials, Systems Furniture and Seating” category.

Note: *The LEED® Green Building Rating System™ does not certify, endorse or promote any products, services or companies, nor do we track, list or report data related to products and their environmental qualities. LEED is a certification system that deals with the environmental performance of buildings based on the overall characteristics of the project. USGBC does not award credits based the use of particular products, but rather upon meeting the standards in our Rating Systems. All of USGBC's Rating Systems and supporting documentation templates are available for free download at www.usgbc.org/leed.*

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ABOUT SCS

SCS (Scientific Certification Systems) is a global leader in independent certification of environmental and sustainability claims. For more than two decades, SCS has developed internationally recognized standards and certification programs aimed at spurring the highest level of environmental improvements, social accountability and product performance. SCS programs span a wide cross-section of the economy, recognizing accomplishments in agricultural production, food processing and handling, forestry, fisheries, flowers and plants, energy, green building, consumer and business product manufacturing, and corporate social responsibility. The SCS Material Content Certification verifies that Lotte Chemical Corp. is working responsibly to minimize environmental impact during the manufacturing process.

For more information, please visit www.SCScertified.com.

ABOUT USGBC

The U.S. Green Building Council (USGBC) is a nonprofit organization that certifies sustainable businesses, homes, hospitals, schools, and neighborhoods. USGBC is dedicated to expanding green building practices and education through its LEED® (Leadership in Energy and Environmental Design) Green Building Rating System™. that Lotte Chemical Corp., the producer of Staron® solid surface and Radianz® quartz surface products are a current member.

For more information, please visit www.usgbc.org.

ABOUT LEED

The Leadership in Energy and Environmental Design (LEED®) Green Building Rating System™ developed by the U.S. Green Building Council (USGBC) encourages global adoption of sustainable green building and development practices. Architects, facility managers, engineers, interior designers, construction managers, government officials, and others use LEED® to help transform the built environment to sustainability. Staron® solid surfaces and Radianz® quartz surfaces products are eligible to contribute towards the LEED® 2009 Rating System for many projects.

