

LEED & IceStone Durable Surfaces



IceStone LLC

Sustainability: IceStone is proud to be the first and only durable surface in the world to receive McDonough Braungart Design Chemistry (MBDC)'s coveted Cradle to Cradle™ certification. Cradle to Cradle™ assesses products on a number of criteria, such as the use of safe and healthy materials, design for material reuse and recycling, efficient use of energy and water throughout production, and instituting strategies for social responsibility. At IceStone we manufacture our products with 100% recycled glass in a cement matrix, diverting hundreds of tons of glass from landfills each year. We operate out of a renovated, day-lit factory in the Brooklyn Navy Yard, creating U.S. jobs for workers in an eco-friendly, safe and respectful environment.

Design without compromise: At IceStone we are committed to creating surfaces for your home and office space that are both beautiful and sustainable. Our products offer classic and contemporary styles with 21st century intelligence. Whether your project calls for kitchen countertops, bathroom vanities, conference tables or patio surfacing, IceStone offers you cutting-edge design and environmental results.

Beauty: IceStone products come in a variety of shades, ranging from soft, earth-toned neutrals to rich, saturated colors. Our color palette is versatile, simulating the natural landscape or harmonizing with your own home or office décor. Our surfaces come with a high polish but can be honed or sandblasted to achieve your desired look and feel. And unlike petrochemical based materials, IceStone surfaces do not fade with UV exposure.

LEED

The United States Green Building Council (USGBC) developed the Leadership in Energy and Environmental Design (LEED) Green Building Rating System in order to transform the built environment to sustainability by providing the building industry with consistent, credible standards for what constitutes a green building. There are different types of LEED rating systems, and all are continuously refined. You can check the latest versions at the USGBC website – www.usgbc.org.

Using IceStone durable surfaces has helped many projects to obtain their LEED credits. Below, you will find a chart of information relating to how IceStone can help to obtain credits in the LEED Commercial Interiors (LEED-CI) version 2.0 rating system. Below that, you will find a condensed listing of the other LEED certification systems and the corresponding credits that IceStone can help your project to obtain.

Please call IceStone's Sustainability Coordinator at (718) 624-4900 for more information or questions.

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LEED Commercial Interiors (LEED-CI) Version 2.0 and IceStone

Credit	Intent	How IceStone can contribute:
<p>MR 4.1: Recycled Content: 10% (post-consumer + 1/2 pre-consumer)</p> <p>MR 4.2: Recycled Content: 20% (post-consumer + 1/2 pre-consumer)</p>	<p>Increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.</p>	<p>IceStone durable surfaces contain recycled content that ranges from 70% on average to 75% of the product by weight. Of the recycled content, generally 80-100% is pre-consumer waste, with the balance being post-consumer waste.</p>
<p>ID 1: Innovation in Design: Exemplary Performance: Recycled Content: 30% or greater</p>		
<p>MR 5.1: Regional Materials: 20% Manufactured Regionally</p>	<p>Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.</p>	<p>IceStone durable surfaces are manufactured in Brooklyn, NY. If your project is within 500 miles of us, IceStone qualifies as a regional material.</p>
<p>EQ 4.1: Low-Emitting Materials: Adhesives & Sealants</p>	<p>Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.</p>	<p>IceStone durable surfaces contains no volatile organic compounds (VOCs) and thus emit no VOCs. We recommend that IceStone be used in conjunction with certain low-VOC or no-VOC sealants.</p>
<p>ID 1: Innovation in Design: Cradle to Cradle Certification</p>	<p>Recognizing the Cradle to Cradle (C2C) program for certified building products, as well as products certified by other established systems, in an Innovation and Design Credit complements the recent recommendations by USGBC's Life Cycle Assessment Group for incorporating life cycle assessment (LCA) into LEED. LCA is a scientific methodology that evaluates the environmental impact of a product throughout its life cycle, from the extraction of raw materials through processing, manufacture, installation, use, and ultimate disposal or recycling.</p> <p>"Awarding LEED innovation points for Cradle to Cradle LCA education is the latest example of USGBC's dedication to continuous improvement," said Tom Hicks, Vice President of LEED, USGBC. "C2C is in harmony with our guiding principle of reconciling human activities with nature, and cuts a trail for exciting new directions in LEED to address the impacts of materials in the building industry in a much more sophisticated scientific manner." - Green Magazine, 6/28/2007</p>	<p>IceStone is the first and only durable surface to have achieved Cradle to Cradle certification. McDonough Braungart Design Chemistry (MBDC) – an independent third-party firm – has evaluated IceStone durable surfaces for its human health, environmental health, lifecycle attributes, social responsibility, renewable energy and water stewardship characteristics against stringent criteria and has certified it as a Silver level ecologically intelligent product.</p>

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Other LEED Systems and How IceStone Can Help

LEED New Construction (LEED-NC) version 2.2:

- MR 4.1: Recycled Content: 10% (post-consumer + ½ pre-consumer)
- MR 4.2: Recycled Content: 20% (post-consumer + ½)
- ID 1: Innovation in Design: Exemplary Performance: Recycled Content: 30% or greater
- EQ 4.1: Low-Emitting Materials: Adhesives & Sealants
- ID 1: Innovation in Design: Cradle to Cradle Certification

LEED Existing Buildings (LEED-EB) version 2.0:

- MR 2.1 – 2.5: Optimize Use of Alternative Materials
- MR 3.1 & 3.2: Optimize Use of IAQ Compliant Products
- IUOM 1: Innovation in Upgrades, Operations and Maintenance: Cradle to Cradle Certification
- IUOM 1: Exemplary Performance: Optimize Use of Alternative Materials

LEED Core and Shell Development (LEED-CS) version 2.0:

- MR 4.1: Recycled Content: 10% (post-consumer + ½ pre-consumer)
- MR 4.2: Recycled Content: 20% (post-consumer + ½ pre-consumer)
- ID 1: Exemplary Performance: Recycled Content
- EQ 4.1: Low Emitting Materials: Adhesives and Sealants
- ID 1: Innovation in Design: Cradle to Cradle Certification

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More Ways that IceStone Supports Green Building and a Healthy World:

- **Green Manufacturing and Office Facilities:** IceStone has adopted goals for energy conservation, carbon emissions, water use, and waste management. IceStone will become carbon-neutral, purchase renewable energy credits, and will continue to reduce energy use per square foot of product produced. IceStone's Water Management Principles are based on the Hannover Principles on Design for Sustainability and the Water Principles of the World Business Council for Sustainable Development. Waste from our facility is tracked and measured against reduction goals. Over 80% of our waste is recycled, recovered or composted. IceStone also conducts environmental education programs for employees.
- **Social Responsibility:** IceStone's mission statement addresses corporate ethics and social responsibility (available on www.icestone.biz). IceStone will complete a social audit with third-party verification. IceStone provides living-wages, health benefits, education programs and life-skill training to employees, including free English as a Second Language classes. IceStone's donation program provides free or discounted material to projects that share similar social and environmental goals, with Habitat for Humanity receiving annual donations. We also partner with community, nonprofit, academic, industrial assistance and local social services groups to promote green-collar job creation, sustainable business practices, and the development of the green building industry.
- **Life Cycle:** IceStone durable surfaces are defined as a Technical Nutrient by MBDC's Cradle to Cradle™ certification due to human and ecological health characterization as well as reutilization potential. IceStone surfaces are suitable for many re-uses in a long life cycle. Fabricators will accept used IceStone surfaces and may cut a new piece. IceStone LLC accepts surfaces that are packaged and shipped back at the owner's expense to IceStone LLC in Brooklyn, NY. IceStone surfaces are 100% recyclable via mechanical grinding and reforming. IceStone surfaces may also be downcycled into tiles, landscaping material and roadbed aggregate.
- **Supply Chain:** IceStone encourages suppliers to improve sustainability standards. IceStone's glass and mother-of-pearl are recycled from post-industrial and post-consumer sources. IceStone advocates for stronger glass recycling programs in New York. We hope to create an infrastructure that allows the commercial re-use of regional waste glass. We buy cement regionally (sourced near York, PA) and we advocate for the greening of the cement industry. IceStone continuously conducts product research to seek the most eco-friendly and local materials as possible.
- **Notable LEED-Certified Projects:** USGBC headquarters, Washington, D.C. (LEED Platinum); Luma green condos, downtown L.A., CA; Bank of America Tower at One Bryant Park, New York City, NY (aspiring LEED Platinum).

Please call IceStone's Sustainability Coordinator at (718) 624-4900 for more information about IceStone's efforts to make the world a better place.