

## Nathan Allan: Environmentally Sustainable Glass



Environmentally Sustainable Glass. Glass is often referred to as a **Green** product, because the main component to making glass is **Silica**. Found in sand, Silica is considered a renewable and never ending resource. **Kiln cast glass offers decorative textures without compromising the environment.** Neither plastics nor resin are used in any of our processes. When you choose to use glass, it's an everlasting authentic statement **Mother Nature can live with.**

### Our Process

In the process of making float glass sheets, excess or marked portions of the glass are cut off and re-used in future production runs. Percentages will vary as to how much content of the glass is recyclable product. Stock glass is shipped to Nathan Allan, and we use this glass to manufacture all of our products. Currently, the glass sheets that Nathan Allan uses to produce our Cast Glass contain up to 30% recycled cullet. Once glass is tempered, it cannot be cut. If someone attempts to cut tempered glass, the glass will explode. We focus on Environmentally Sustainable Glass. Companies will often discard tempered glass when panels are scratched, damaged, or ordered incorrectly.

Nathan Allan has **eliminated** the need to discard glass by using a process in which we formulate and de-temper the tempered glass. After the panels are de-tempered, we can cut, re-cast, and re-use these panels in future projects. This ingenious process has eliminated the exercise of discarding of glass panels. While providing beautiful decor, our Cast Glass also **allows for ample light and warmth transmission from the sun, reducing the need for artificial lighting and heat.**

### Cleaning Properties



**Cast Glass has unique cleaning properties.** With the surfaces of the glass being textured or sealed, it is essentially a No-Maintenance product. In years to come, the glass looks brand new, reducing the need to replace the glass with newer product. This also helps to eliminate the process of discarding glass into landfills. Nathan Allan is in the process of applying for LEEDS certification. As we upgrade our building, improve manufacturing processes, and continue to increase our recycling capabilities, we look forward to being a partner in maintaining the natural beauty of the world in which we live!



#### **USGBC LEED-CI OPPORTUNITIES IN SPECIFICATION**

Designers and Architects are provided this document to assist in the specification of Nathan Allan Glass Studios' glass to potentially earn LEED-CI credits for their projects. This is an outline only and confirms only LEED credit opportunities. Environmentally Sustainable Glass Specific criteria as per LEED-CI documentation should be directed to USGBC per LEED-CI requirements. View Our [YouTube](#) Videos.

LEED credit	Intent	Requirement	Opportunity
<p><b>Energy and Atmosphere</b></p> <p>Optimizing Energy Performance (1-5 points)</p>	<p>Environmentally Sustainable Glass. To achieve increasing levels of energy conservation beyond the referenced standard to reduce environmental and economic impacts associated with excessive energy use.</p>	<p>Reduce connected lighting power density below that allowed by ANSI/ASHRAE/IESNA Standard 90.1-2007 (with errata but without addenda) using either the space-byspace method or by applying the whole building lighting power allowance to the entire tenant space.</p>	<p>Nathan Allan Glass Studios' glass specified in facility design can reduce daylight costs of electricity and provide additional natural lighting throughout. The distinct pattern designs of Nathan Allan Glass Studios' glass therefore reduce thermal solar effects as well.</p>
<p><b>Materials and Resources</b></p> <p>Credit 4.1-4.2 Recycled Content (1-2 points)</p>	<p>To increase demand for building products that incorporate recycled content materials thereby reducing impacts resulting from extraction and processing of virgin materials.</p>	<p>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.</p>	<p>As the innovator in green, kiln-fired glass, Nathan Allan Glass Studios is introducing new products with 90% post-consumer recycled content, 100% pre-consumer recycled content and ongoing attention to de-temper and reuse mis-ordered, scratched or</p>

LEED credit	Intent	Requirement	Opportunity
			<p>damaged glass to assure zero landfill waste. At present, all of our glass selections contain up to 30% preconsumer recycled cullet. Nathan Allan Glass Studios' glass is 100% recyclable.</p>
<p><b>Materials and Resources</b> Credit 5.1-5.2 Regional Materials (1-2 points)</p>	<p>To increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the regional economy and reducing the environmental impacts resulting from transportation.</p>	<p>Use a minimum of 20% of the combined value of construction materials and products that are manufactured regionally within a radius of 500 miles. Use a minimum of 10% or 20% of the combined value of construction materials and products extracted, harvested or recovered, as well as manufactured, within 500 miles of the project.</p>	<p>Projects within a 500 mile range of Nathan Allan Glass Studios' Vancouver area production facility may qualify for credit.</p>
<p><b>Indoor Environmental</b></p>	<p>To reduce the quantity of indoor air contaminants that are</p>	<p>VOC content must meet or be less than the current VOC</p>	<p>Nathan Allan Glass Studios' durable paints</p>

LEED credit	Intent	Requirement	Opportunity
<p><b>Quality</b></p> <p>Credit 4.1-4.2 Low emitting materials, Adhesives, Paints and Coatings (2 point)</p>	<p>odorous, irritating and/or harmful to the comfort and wellbeing of installers and occupants.</p>	<p>content limits of the South Coast Air Quality Management District (SCAQMD), Rule #1169 Adhesives, Rule #1113 Paints and Coatings.</p>	<p>meet the most stringent qualifications. They are HAPS (Hazardous Air Pollutants) free and low VOC (Volatile Organic Compounds) at application, Zero VOC upon curing.</p>
<p><b>Indoor Environmental Quality</b> <b>Credit 8.1</b> <b>Daylight and Views—</b> <b>Daylight (1-2 points)</b></p>	<p>To provide occupants with a connection between indoor spaces and the outdoors through the introduction of daylight and views into regularly occupied areas of a tenant space.</p>	<p>Use a combination of side-lighting and/or top-lighting to achieve a total daylight zone that is at least 75% of all the regularly occupied spaces, 95% for additional credit.</p>	<p>The specification of Nathan Allan Glass Studios’ glass offers natural lighting conveyance to all areas to the work environment, while our textures and designs provide privacy along with light transmission.</p>
<p><b>Indoor Environmental Quality</b></p> <p>Credit 8.2-8.3 Views for Seated Spaces (1 point)</p>	<p>To provide building occupants a connection to the outdoors through the introduction of daylight and views into the regularly occupied areas of tenant space.</p>	<p>Achieve a direct line of sight to the outdoor environment via vision glazing between 30 inches and 90 inches above the finished floor for building occupants in</p>	<p>Nathan Allan Glass Studios’ innovative glass textures and designs, strategically placed, provide building occupants</p>

LEED credit	Intent	Requirement	Opportunity
		90% of all regularly occupied areas.	improved natural daylight solutions.
<p><b>Innovation and Design Process</b></p> <p>Credit 1 Innovation and Design (1-5 points)</p>	<p>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.</p>	<p>Credit can be achieved through any combination of Innovation in Design and Exemplary Performance paths.</p>	<p>Nathan Allan Glass Studios' R &amp; D is focused on new one of a kind, green product introductions. Within the next few months Nathan Allan Glass Studios is introducing maximum content pre and post-consumer recycled lines. Nathan Allan Glass Studios is the go to company for innovation, new technology and wonderful green products in kiln-formed glass. Please <a href="#">contact us</a> for additional information about Environmentally Sustainable Glass.</p>

**LEED Certified Projects**





[DENVER NEWS AGENCY, CO](#)

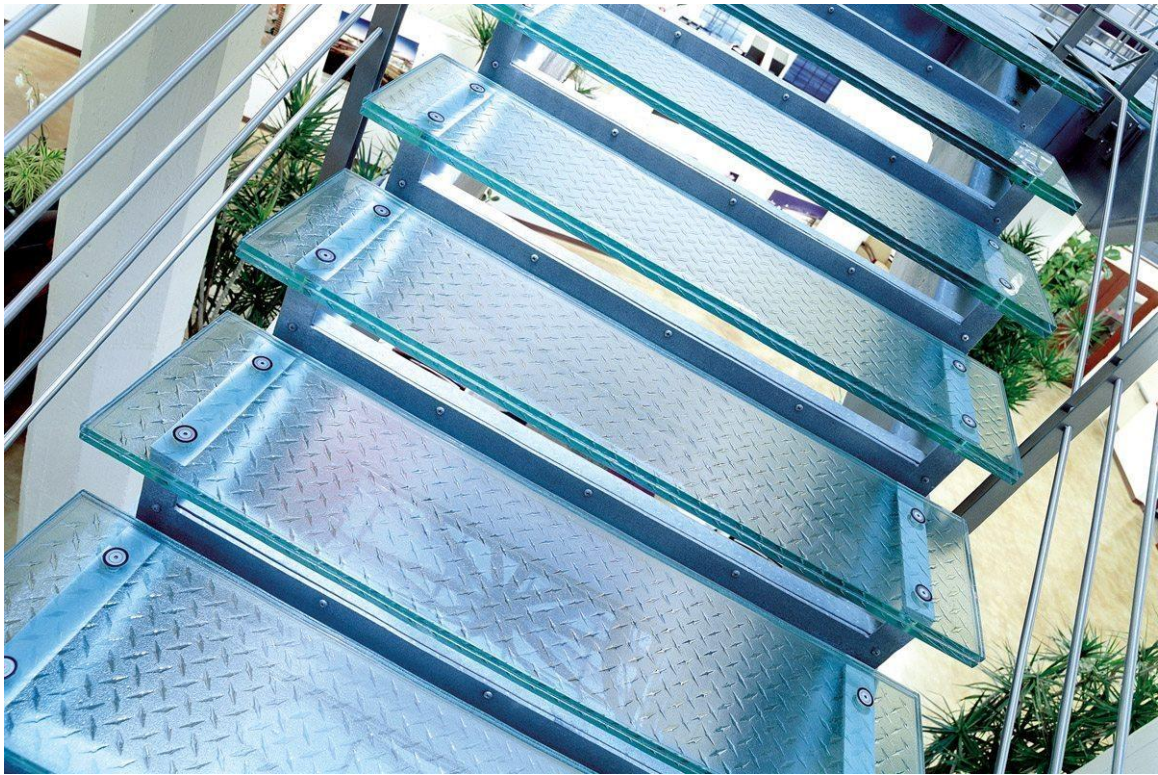


[CROSSROAD DENTAL WELLNESS, VANCOUVER](#)





[VDARA HOTEL & SPA LOUNGE, AZ](#)



[BIG D CONSTRUCTION HEADQUARTERS, UT](#)





[DELL CHILDREN'S MEDICAL CENTER, TEXAS](#)



[CANISIUS COLLEGE, NY](#)





[UNIVERSITY OF TENNESSEE, TN](#)



[THOMAS JEFFERSON SCHOOL OF LAW, CA](#)