

LEED® Brochure and Scorecard

The LEED® (Leadership in Energy & Environmental Design) Green Building Rating System is the nationally accepted benchmark for the design and construction of high performance green buildings. While the use of no single construction material can earn LEED® points, SAFTI*FIRST*'s fire rated glass and framing products can contribute to a number of LEED® 2009 credits including:



Energy & Atmosphere

Reducing energy is an essential aspect of any sustainable building design. Utilizing energy efficient products and taking advantage of daylighting helps to achieve significant energy savings.

How SAFTIFIRST products can help:

Prerequisite 2 – Minimum Energy Performance SAFTIFIRST products can be part of a strategy to help achieve the required minimum energy performance for LEED® certification.





Our glass products have the option of being insulated with low-e or energy performance glazing to further improve the energy performance of the building. Our SuperLite II-XL and GPX Framing assemblies have NFRC (National Fenestration Ratings Council) certifications for U-Factor, Solar Heat Gain Coefficient and Condensation Resistance. In addition, our glass products can be used as part of daylighting strategies and passive solar designs to further reduce the amount of energy consumed by the building. Using fire rated glass maximizes light penetration, even from artificial lighting, by providing light transmittance in areas where opaque walls are the norm.

Materials & Resources

Reduce, reuse, recycle. Three essential steps in conservation of resources. These elements, in addition to consideration of local/regional sourcing of materials, are a few of the important ways to reduce impacts.

How SAFTIFIRST products can help:

Credits 2.1 and 2.2 - Construction Waste Management

SAFTIFIRST products are supplied to the construction site in the exact quantities needed, however should products be damaged in transit, both the glass and the metal framing systems can be recycled. Products are either delivered on wooden pallets or in shipping boxes – both of which are made from recycled materials and can be recycled after use.

Credits 4.1 and 4.2 - Recycled Content

Steel used in the GPX framing system contains approximately 30% by weight pre-consumer recycled content. Aluminum used in the GPX framing system contains approximately 25% by weight pre-consumer recycled content.

Credits 5.1 and 5.2 - Regional Materials

All products manufactured by SAFTI*FIRST* are made in our plant in Merced, CA. The primary raw material used in SAFTI*FIRST* glass products, sand, is sourced from less than 70 miles from the plant. All projects in California and those located in some cities in Nevada and Arizona may qualify for this credit if they are within 500 miles of the Merced facility.

Indoor Environmental Quality

Creating a healthy indoor environment is important for our wellbeing.

How SAFTIFIRST products can help:

All SAFTIFIRST glass products can be used to provide daylighting and visual access. In addition, SuperLite II-XL can be used as a fire resistive transparent wall to provide clear, transparent glazing that blocks radiant heat transfer.

Credit 4 - Low-Emitting Materials

SAFTIFIRST glass products meet the intent of eliminating VOC's from the indoor environment when used as interior walls and glazing.

Credit 8 - Daylight and Views

SAFTIFIRST glass products can be an integral part of a strategy to provide both daylight and views while still providing sound control, security, and privacy. SuperLite II-XL transparent walls can be used in lieu of traditional opaque fire walls to allow natural light penetration and preserve views deep within a building.

Innovation and Design

Cradle to Cradle (C2C) Certification

The Cradle to Cradle (C2C) certification for products is a recognized innovation credit when at least 2.5% (by cost) of the materials on a project achieve C2C certification. PYRAN Platinum by SAFTI*FIRST* is currently the only glass ceramic on the market that meets these requirements.

Acoustic Performance

Acoustic design is another potential area for Innovation in LEED-NC and is part of the LEED® for Schools rating system (IEQ credit 9). The criteria in LEED® for Schools requires that windows in the building shell, classroom partitions and other core learning space partitions meet an STC rating of at least 35. All SuperLite II-XL, SuperLite X-90 and PYRAN Platinum L products meet these STC requirements.

Beyond LEED®

While LEED® is an important measure of green building, sustainable building design goes beyond LEED®. Sustainable buildings are high performance buildings that incorporate features that provide resiliency and durability, as well as minimize their environmental footprint. This includes not only responsiveness to climate change, but also to fire, hurricanes and floods.

SAFTIFIRST products can contribute to the following features of a high-performance, resilient building:

Safety and Security

Resilience is a sometimes overlooked aspect of sustainable buildings, but one that is essential to long-term performance. Resilient buildings withstand what nature dishes out. They include fire resistant construction and resistance to wind-borne debris and other impacts – all of which promote occupant health and safety. All SAFTI-FIRST glass, framing and PYRAN Platinum products protect against fire. SuperLite II-XL can be manufactured to provide resistance to impacts, including ballistic, hurricane and blast.

Another aspect of safety and security involves vision and lines of sight. SAFTI*FIRST* glass products can provide visual access while still providing security. This is especially true for stairwells and other areas where attack is prone to occur because of the lack of visual access.

Environmentally Preferable Materials and Products

SAFTI*FIRST* glass products are made primarily from sand, an abundant material, and do not contain toxic materials. This includes the PYRAN Platinum line of products, which are the only glass ceramics currently available that are free from toxins and hazardous heavy metals during the manufacturing process. This superior environmental performance has been recognized in the C2C (Cradle to Cradle) certification of PYRAN Platinum.

LEED® 2009 for New Construction and Major Renovation Project Scorecard

SAFTIFIRST Fire Rated Glass & Framing can contribute to the credits highlighted below.

		Sustainable Sites	26 Points
	Prereq 1	Construction Activity Pollution Prevention	Required
	Credit 1	Site Selection	1
	Credit 2	Development Density and Community Connectivity	5
	Credit 3	Brownfield Redevelopment	1
	Credit 4.1	Alternative Transportation - Public Transportation Access	6
	Credit 4.2	Alternative Transportation - Bicycle Storage and Changing Rooms	1
	Credit 4.3	Alternative Transportation - Low-Emitting and Fuel-Efficient Vehicles	3
	Credit 4.4	Alternative Transportation - Parking Capacity	2
	Credit 5.1	Site Development - Protect or Restore Habitat	1
	Credit 5.2	Site Development - Maximize Open Space	1
	Credit 6.1	Stormwater Design - Quantity Control	1
	Credit 6.2	Stormwater Design - Quality Control	1
	Credit 7.1	Heat Island Effect - Nonroof	1
	Credit 7.2 Credit 8	Heat Island Effect - Roof Light Pollution Reduction	1
? No	Credit 6	Light Pollution Reduction	ı
? No		Water Efficiency	10 Points
1	Prereg 1	Water Use Reduction	Required
	Credit 1	Water Efficient Landscaping	2 to 4
		Reduce by 50%	2
		No Potable Water Use or Irrigation	4
	Credit 2	Innovative Wastewater Technologies	2
	Credit 3	Water Use Reduction	2 to 4
		Reduce by 30%	2
		Reduce by 35%	3
2 N=		Reduce by 40%	4
? No		Energy & Atmosphere	35 Points
	Prereq 1	Fundamental Commissioning of Building Energy Systems	Required
	Prereq 2	Minimum Energy Performance	Required
	Prereq 3	Fundamental Refrigerant Management	Required
	Credit 1	Optimize Energy Performance	1 to 19
	Credit 1	Optimize Energy Performance Improve by 12% for New Buildings or 8% for Existing Building Renovations	1 to 19 1
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SAFTIFIRST Fire Rated Glass & Framing can contribute to the credits highlighted below.

Yes ? No		Materials & Resources	14 Points
Υ	Prereg 1	Storage and Collection of Recyclables	Required
	Credit 1.1	Building Reuse - Maintain Existing Walls, Floors and Roof	1 to 3
		Reuse 55%	1
		Reuse 75%	2
		Reuse 95%	3
	Credit 1.2	Building Reuse - Maintain Interior Nonstructural Elements	1
	Credit 2	Construction Waste Management	1 to 2
		50% Recycled or Salvaged 75% Recycled or Salvaged	1 2
	Credit 3	Materials Reuse	1 to 2
	Oredit 5	Reuse 5%	1
		Reuse 10%	2
	Credit 4	Recycled Content *	1 to 2
	O. Gail .	10% of Content	1
		20% of Content	2
	Credit 5	Regional Materials	1 to 2
		10% of Materials	1
		20% of Materials	2
	Credit 6	Rapidly Renewable Materials	1
	Credit 7	Certified Wood	1
		* SAFTIFIRST GPX metal framing systems	
res ? No		Indoor Environmental Quality	15 Points
V	Prereq 1	Minimum Indoor Air Quality Performance	Required
<u>'</u>	Prereq 2	Environmental Tobacco Smoke (ETS) Control	Required
	Credit 1	Outdoor Air Delivery Monitoring	1
	Credit 2	Increased Ventilation	1
	Credit 3.1	Construction Indoor Air Quality Management Plan - During Construction	1
	Credit 3.2	Construction Indoor Air Quality Management Plan - Before Occupancy	1
	Credit 4.1	Low-Emitting Materials - Adhesives and Sealants	1
	Credit 4.2	Low-Emitting Materials - Paints and Coatings	1
	Credit 4.3	Low-Emitting Materials - Flooring Systems	1
	Credit 4.4	Low-Emitting Materials - Composite Wood and Agrifiber Products	1
	Credit 5	Indoor Chemical and Pollutant Source Control	1
	Credit 6.1	Controllability of Systems - Lighting	1
	Credit 6.2	Controllability of Systems - Thermal Comfort	1
	Credit 7.1	Thermal Comfort - Design	1
	Credit 7.2	Thermal Comfort - Verification	1
	Credit 8.1	Daylight and Views - Daylight	1
	Credit 8.2	Daylight and Views - Views	1
Yes ? No		Innovation in Design	6 Points
	Credit 1	Innovation in Design	1 to 5
	Oledit 1	Innovation or Exemplary Performance	1
		Innovation or Exemplary Performance	1
		Innovation or Exemplary Performance	1
		Innovation - Cradle to Cradle (C2C) Certification	1
		Innovation - Acoustic Performance	1
	Credit 2	LEED® Accredited Professional	1
Yes ? No		Regional Priority	4 Points
	Credit 1	Regional Priority	1 to 4
		Regionally Defined Credit Achieved	1
		Regionally Defined Credit Achieved	1
		Regionally Defined Credit Achieved Regionally Defined Credit Achieved	1 1
Yes ? No			
		PROJECT TOTALS (Certification Estimates)	

Certified: 40-49 points Silver: 50-59 points Gold: 60-69 points Platinum: 80+ points

