



LET'S GO GREENER TOGETHER

LEED® v4.1

2020

GAINING POINTS
GOING GREEN
WORKING WITH US



LEED®, or leadership in Energy & Environmental Designs.

LEED v4.1 is the next generation standard for green building design, construction, operations and performance. It raises the bar on building standards to address energy efficiency, water conservation, site selection, material selection, day lighting and waste reduction.

The rigorous focus on material selection, human comfort, air quality and human health features of a building rightly prioritizes the most important asset of the building: human beings.

The specific focus on social equity ensures that buildings are not considered in isolation of their communities but prioritize access and inclusiveness for all.

To ensure a building is resilient from natural and unnatural disturbances a comprehensive set of design and construction strategies has been established in LEED v4.1.



LEED is for all building types and all building phases including new construction, interior fit outs, operations and maintenance and core and shell.

LEED for Building Design and Construction (LEED BD+C) provides a framework for building a holistic green building, giving you the chance to nail down every sustainability feature, maximizing the benefits.

Projects pursuing LEED certification earn points for various green building strategies across several categories based on the number of points achieved, a project earns one of four LEED rating levels.

LEED rating levels :

 Certified 40-49 points earned	 Silver 50-59 points earned
 Gold 69-79 points earned	 Platinum 80+ points earned

In which way TVITEC can help you to reach points LEED®

Glass in itself can contribute to reaches a high LEED rating level. Why glass? Because glass is one of the key points in the building performance. Glass appears in five of nine requirements in a direct and indirect way*.

Integrative Process	Water Efficiency	Indoor Environmental Quality (EQ)
Location and Transportation	Energy and Atmosphere (EA)	Innovation (IN)
Sustainable Sites (SS)	Materials and Resources (MR)	Regional Priority

*Mixing glass with others materials is another way to get points.



LEED BD+C Scoreboard

CATEGORY	Reference	LEED CREDIT	Points
Energy and Atmosphere	EAc2	Optimize Energy Performance	18
Sustainable Sites	SSpc55	Bird Collision Deterrence	1
Material and resources	MRp2	Impact reduction of the life-cycle of the building	3
	MRC2	DOBP Environmental Product Declaration	2
	MRC3	DOBP Sourcing of Raw material	1
	MRC4	DOBP Material ingredients	2
	MRC9	Construction and demolition waste management	2
Indoor Environmental Quality	EQc5	Thermal Confort	1
	EQc7	Daylight	3
	EQc8	Quality views	1
	EQc9	Acoustic performance	1
Innovation	INc1	Innovation	5

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* DOBP : Disclosure and optimization of building products.



LEED
ENERGY AND
ATMOSPHERE



EAc2 - Optimize Energy Performance

A building can be awarded between 1 and 18 points, depending on the building's overall energy performance. Tvitec's architectural glass, both flat and curved, provides buildings with luminosity, comfort, and energy efficiency through insulating glass units with high selective coatings controlling thermal transmittance and solar factor. This benefits the occupant's well-being and the sustainability of the planet by reducing CO2 emissions into the atmosphere.



**SSpc55 - Bird Collision
Deterrence - 1 point available**

LEED category is about making decisions based on having less impact to the environment. It covers decisions from the time before ground disturbance activities begins and ends with native landscaping and light pollution.

Projects with a scope of work related to the building façade and/or site structures shall evaluate bird-safe design strategies to minimize bird deaths by collision. Tvitec advanced architectural glass can be provided with bird friendly solutions for collision deterrence.



LEED
SUSTAINABLE
SITES

LEED
MATERIALS &
RESOURCES

MRp2 - Impact reduction of the life-cycle of the building - 3 points available

LEED encourages recycling, building reuse, waste management, the use of regional materials and the specification of renewable materials favoring adaptive reuse and optimization of the environmental efficiency of products and materials. Tvitec is able to provide the life-cycle analysis of the majority of glass processed which contributes to the analysis of the life-cycle impact of the building itself. If required, it is recommended to ask for the availability of this information in the tender phase.

MRc2 Disclosure and optimization of building products - Environmental Product Declaration - 2 points available

Environmental Product Declaration (EPD) is an independently verified and registered document that communicates transparent and comparable information about the life-cycle environmental impact of products. Tvitec is able to provide the EPD of the majority of glass processed. it is recommended to ask for the availability of this information in the tender phase.

MRc3 - Disclosure and optimization of building products – Sourcing of Raw material – 1 point available

LEED encourages to select products who have verified that they have been extracted or collected from sources responsibly. Products with better environmental performances throughout their entire lifetime, including the recycling stage can be selected. Tvitec is able to provide the recycled content of the glass processed, both pre- and post-consumer.

MRc4 - Disclosure and optimization of building products – material ingredients – 2 points available

Environmental Product Declaration (EPD) is an independently verified and registered document that communicates transparent and comparable information about the life-cycle environmental impact of products. Tvitec is able to provide the EPD of the majority of glass processed. it is recommended to ask for the availability of this information in the tender phase. Tvitec is certified by the International Standard ISO 14001 that assure the use and commitment with an environmental Policy

MRc9 - Disclosure and optimization of building products – Sourcing of Raw material – 1 point available

LEED encourages to reduce construction and demolition waste deposited in landfills and incineration plants through the recovery, recycling and reuse. Glass units are finished products ready to be installed so they do not leave any glass residue. Specialized freight options using returnable steel rack transportation versus wood crating to preserve natural resources not to generate packaging waste other than a minimum volume of recyclable materials as carton, paper or wood is used by Tvitec.



EQc5 – Thermal comfort – 1 point available

LEED encourages to promote occupants’ productivity, comfort and well-being by providing quality thermal comfort. Tvitec’s architectural glass, both flat and curved, Neutralux® and Solarlux® are designed to optimize the solar factor and reduce glare that have a direct impact on the thermal comfort of the occupants of the building

EQc7 – Daylight – 3 point available

LEED encourages to connect building occupants with the outdoors, reinforce circadian rhythms and reduce the use of electrical lighting by introducing daylight into the space. Tvitec manufactures Neutralux® and Solarlux® which are glass products with low emissivity and excellent visible light transmission, involving outstanding solar control. A variety of coated glass products with light transmission from 8% to close to 80% that allows designers the ability to provide ample visible light to connect the occupants to the outdoors and enhance the experience of the space.

**LEED
INDOOR
ENVIRONMENTAL
QUALITY**



EQc8 – Quality views – 1 point available

LEED encourages to give building occupants a connection to the natural outdoor environment by providing quality views. Tvitec’s architectural glass is able to provide buildings with high visible light transmission and high color rendering index providing more accurate color transmission through the glazing.

EQc9 – Acoustic performance – 1 point available

LEED encourages to provide workspaces and classrooms that promote occupants’ well-being, productivity and communications through effective acoustic design. Tvitec advanced architectural glass, Akustex®, can provide buildings with a relatively high sound reduction performance.





INC1 – Innovation
– 5 points available

LEED encourages projects to achieve exceptional or innovative performance. Tvitec advanced architectural glass can be provided with self-cleaning properties among many other solutions for solar and acoustic controlling, aesthetics and safety requirements.

Rocalux® is a novel and versatile product. Made of glass, it enables one to adopt the textures and nuances of other materials used for construction providing many advantages, such as lightness, versatility, freedom of design, a greater ability to replicate ideas, ease of assembly or greater flexibility.

LEED
INNOVATION



LEED
LET'S GO GREENER TOGETHER



glass from another dimension



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