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Resin Panels

Sensitile Systems®

Sensitile®
materials as dynamic as light

Resin Panels

Sensitile's® Resin Panels are a lightweight, versatile medium with a dazzling range of colors, finishes, and patterns that yield compelling effects for any design. The light filtering qualities of Jali® and SLANT® allow for elegant definitions of space, levels of privacy, and beautiful daylighting. The interactive designs of Scintilla® and Motif®/Ripple® respond magically to shadows, movement, light, and color, with no power required. And the light-emitting Lumina®, Spark®, VAPOR® and Infinity® panels use energy-efficient LED sources, allowing designers to play with brightness and shadow – to build with light itself.

USGBC LEED V4

The Leadership in Energy and Environmental Design (LEED®) is the most widely used green building rating system in the world. Available for virtually all building, community and home project types, LEED provides a framework to create healthy, highly efficient and cost-saving green buildings. LEED certification is a globally recognized symbol of sustainability achievement.

Sensitile's® award-winning, custom architectural products can contribute to several credits in LEED.

This document is meant to serve as a tool for design professionals in need of an overview of Sensitile's resin panel products, and how they may contribute to LEED certification. The following LEED V4 BD+C credits are supported.

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EQ Credit: Low-Emitting Materials (1-3 Possible Points)

LEED BD+C Rating Systems	New Construction	Hospitality
	Core and Shell	Healthcare
	Schools	Data Centers
	Retail	Warehouse

Intent of Credit

To reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.

Requirements

This credit includes requirements for product manufacturing as well as project teams. It covers volatile organic compound (VOC) emissions in the indoor air and the VOC content of materials, as well as the testing methods by which indoor VOC emissions are determined.

Option 1. Product Category Calculations (1-3 points)

Achieve the threshold level of compliance with emissions and content standards for the number of product categories listed in Table 2.

For Product Category *Ceilings, Walls, Thermal, and Acoustic Insulation,* threshold of compliance is 100% of products with General Emissions Evaluation.

Indoor Environmental Quality (EQ)

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How Sensitile's® Resin Panels Contribute to Credit

Sensitile's® Resin panels have received ETL Environmental VOC+ Product Certification from Intertek, confirming that **this product conforms to ANSI/BIFMA X7.1-2011 and ANSI/BIFMAe3-2014e (Credits 7.6.1, 7.6.2, and 7.6.3). Credit 7.6.3 is compliant to CDPH Standard Method v1.2 01350 (2017).**

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EQ Credit: Interior Lighting (1-2 Possible Points)

LEED BD+C Rating Systems	New Construction Core and Shell Schools Retail Hospitality Healthcare Data Centers Warehouse
Intent of Credit	To promote occupants' productivity, comfort, and well-being by providing high-quality lighting.
Requirements	Select one or both of the following two options.
Option 1. Lighting Controls (1 point)	For at least 90% of individual occupant spaces, provide individual lighting controls that enable occupants to adjust the lighting to suit their individual tasks and preferences, with at least three lighting levels or scenes (on, off, midlevel).
Option 2. Lighting Quality (1 point)	Choose four of the eight strategies listed for Option 2 of this credit.
BD+C Retail Only (1-2 points)	For at least 90% of the individual occupant spaces in office and administrative areas, provide individual lighting controls. In sales areas, provide controls that can reduce the ambient light levels to a midlevel (30% to 70% of the maximum illumination level not including daylight contributions).

How Sensitile's® Resin Panels Contribute to Credit

Sensitile's® Resin panels are designed to carry, extend and maximize ambient light, including daylight and energy-efficient lighting. The effect of combining these unique materials with lighting is exponential, not merely additive. The contribution of Sensitile's Resin panels to this credit is project-dependent. Please contact us if you would like to discuss the details of your project and how Sensitile's Resin panels may contribute to this credit.

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EQ Credit: Daylight (1-3 Possible Points)

LEED BD+C Rating Systems	New Construction Core and Shell Schools Retail	Hospitality Healthcare Data Centers Warehouse
Intent of Credit	To connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space.	
Requirements	Provide manual or automatic (with manual override) glare-control devices for all regularly occupied spaces. Select one of the following three options.	
Option 1. Simulation: Spatial Daylight Autonomy (2-3 points; 1-2 points Healthcare)	Demonstrate through annual computer simulations that spatial daylight autonomy 300/50% of at least 55%, 75%, or 90% is achieved; AND that annual sunlight exposure 1000,250 of no more than 10% is achieved.	
Option 2. Simulation: Illuminance Calculations (1-2 points)	Demonstrate through computer modeling that illuminance levels will be between 300 lux and 3,000 lux for 9 a.m. and 3 p.m., both on a clear-sky day at the equinox, for the floor area indicated in Table 2.	
Option 3. Measurement (2-3 points; 1-2 points Healthcare)	Achieve illuminance levels between 300 lux and 3,000 lux for the floor area indicated in Table 3.	

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MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials (1-2 Possible Points)

LEED BD+C Rating Systems	New Construction	Hospitality
	Core and Shell	Healthcare
	Schools	Data Centers
	Retail	Warehouse

Intent of Credit

To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life- cycle impacts. To reward project teams for selecting products verified to have been extracted or sourced in a responsible manner.

Requirements

Achieve one or more of the options listed.

Option 2. Leadership Extraction Practices (1 point)

Use products that meet at least one of the responsible extraction criteria below for at least 25%, by cost, of the total value of permanently installed building products in the project.

Recycled content. Products meeting recycled content criteria are valued at 100% of their cost for the purposes of credit achievement calculation. Products sourced within 100 miles (160 km) of the project site are valued at 200% of their base contributing cost.

Materials and Resources (MR)

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How Sensitile's® Resin Panels Contribute to Credit

Sensitile's® Resin panels have received third-party certification for Recycled Content from SCS Global Services, which confirms that this product conforms to **SCS Recycled Content Standard V7-0 for an average 38% Post-Consumer Recycled Content.**

Projects within 100 miles of our facility in Ypsilanti, MI can value Sensitile's resin panels at 200% of base cost.

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MR Credit: Building Product Disclosure and Optimization – Environmental Product Declarations (1-2 Possible Points)

LEED BD+C Rating Systems	New Construction	Hospitality
	Core and Shell	Healthcare
	Schools	Data Centers
	Retail	Warehouse

Intent of Credit

To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products from manufacturers who have verified improved environmental life-cycle impacts.

Requirements

Achieve one or more of the options listed.

Option 1. Environmental Product Declaration (EPD) (1 point)

Use at least 20 different permanently installed products sourced from at least five different manufacturers that meet one of the criteria listed. Environmental product declarations, which conform to ISO 14025 and EN 15804 or ISO 21930 and have at least a cradle to gate scope. Product-specific Type III EPD – Products with third-party certification (Type III), including external verification in which the manufacturer is explicitly recognized as the participant by the program operator are valued as one whole product for purposes of credit achievement calculation.

How Sensitile's® Resin Panels Contribute to Credit

Sensitile's® Resin panels have received a third-party verified, **product-specific Type III Environmental Product Declaration (EPD)** from SCS Global Services, and are therefore **worth one whole product** for purposes of credit achievement calculation.

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MR Credit: Construction and Demolition Waste Management (1-2 Possible Points)

LEED BD+C Rating Systems

New Construction
Core and Shell
Schools
Retail
Hospitality
Healthcare
Data Centers
Warehouse

Intent of Credit

To reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.

Requirements

Achieve one of the options listed.

Option 1. Diversion (1-2 Points)

Path 1. Divert 50% and three material streams (1 point)

Divert at least 50% of the total construction and demolition material; diverted materials must include at least three material streams.

OR

Path 2. Divert 75% and four material streams (2 points)

Divert at least 75% of the total construction and demolition material; diverted materials must include at least four material streams.

Option 2. Reduction of Total Waste Material (1-2 Points)

Do not generate more than 2.5 pounds of construction waste per square foot of the building's floor area.

How Sensitile's® Resin Panels Contribute to Credit

Sensitile's® Resin panels are manufactured to the exact specifications of our customers, meaning that there is very little to no excess waste from the product itself. Sensitile's® products are packaged primarily in wooden crates or cardboard boxes, which are easily recycled at most facilities. Sensitile® can help project teams estimate the weight of packaging from their shipments.

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