



LUX Art Institute
LEED NC 2.1

LEED-Online Home Credit Scorecard & Status Project Summary Team Admin Documents CIR Detail Help Project Selector Sign Out

SCORECARD

CONSTRUCTION APPLICATION

Registration Design Application Design Review Design Appeal Design Appeal Review Construction Application Construction Design Construction Appeal Construction Appeal Review Certification Appeal

MY ACTION ITEMS

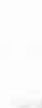
Displays the next steps for the project. Depending on your project role, the project status and number of points anticipated or awarded; different action items will appear.

- If you are satisfied with your clarifications, please click "Submit Clarifications for Review" to continue the review process.
- To attempt Credits, assign them to a member of your Project Team.



POTENTIAL LEED RATING

Displays LEED level which is based on number of points attempted. *



This Project has attempted enough points for Certified Rating.

* Actual Certification Level will be based on the number of points awarded and successful completion of all Prerequisites.

[View Review Summary](#)

You have 0 new Notifications

ATTEMPTED CREDIT SUMMARY

Displays attempted points for the project by status.

Status	Points		
	Design	Construction	Total
Not Awarded:	0	5	5
Earned:	17	6	23
Denied:	2	0	2
Total Attempted:	19	11	30

APEALED CREDIT SUMMARY

Displays your appealed Credits.

This Project is not currently under appeal.

CREDIT SCORECARD

Displays all credits and points per LEED sections. Depending on project access, one can attach team members, view attempted credits or click credits to display template.



[Collapse All Credit Categories](#)

design construction

= Marked Complete
 = Not Marked Complete

= Needs Attention
 = Credit Assigned to You

23 Points Documented

Points Available: 69

Possible Points: 14

5 Sustainable Sites

Yes SS Prerequisite 1 Erosion & Sedimentation Control

Civil Engineer Earned 0

SS Credit 1 Site Selection --Credit Not Attempted-- 1

SS Credit 2 Urban Redevelopment --Credit Not Attempted-- 1

SS Credit 3 Brownfield Redevelopment --Credit Not Attempted-- 1

SS Credit 4.1 Alternative Transportation, Public Transportation Access --Credit Not Attempted-- 1

1 SS Credit 4.2 Alternative Transportation, Bicycle Storage & Changing Rooms Project Team Administrator Earned 1

SS Credit 4.3 Alternative Transportation, Alternative Fuel Refueling Stations --Credit Not Attempted-- 1

1 SS Credit 4.4 Alternative Transportation, Parking Capacity Project Team Administrator Earned 1

SS Credit 5.1 Reduced Site Disturbance, Protect or Restore Open Space --Credit Not Attempted-- 1

<input type="checkbox"/>	MR	Credit 6	Rapidly Renewable Materials	--Credit Not Attempted--		1
<input type="checkbox"/>	MR	Credit 7	Certified Wood	--Credit Not Attempted--		1
5		Indoor Environmental Quality				Possible Points: 15
Yes	EQ	Prerequisite 1	Minimum IAQ Performance	Project Team Administrator	Earned	0
Yes	EQ	Prerequisite 2	Environmental Tobacco Smoke (ETS) Control	Project Team Administrator	Earned	0
<input type="checkbox"/>	EQ	Credit 1	Carbon Dioxide (CO2) Monitoring	--Credit Not Attempted--		1
<input type="checkbox"/>	EQ	Credit 2	Increase Ventilation Effectiveness	--Credit Not Attempted--		1
0	EQ	Credit 3.1	Construction IAQ Management Plan, During Construction	Architect	Attempted Clarify	1
<input type="checkbox"/>	EQ	Credit 3.2	Construction IAQ Management Plan, Before Occupancy	--Credit Not Attempted--		1
0	EQ	Credit 4.1-4.4	Low-Emitting Materials	Architect	Attempted Clarify	4
<input type="checkbox"/>	EQ	Credit 5	Indoor Chemical & Pollutant Source Control	--Credit Not Attempted--		1
2	EQ	Credit 6.1-6.2	Controllability of Systems	Project Team Administrator	Earned	2
1	EQ	Credit 7.1	Thermal Comfort, Comply with ASHRAE 55-1992	Project Team Administrator	Earned	1
<input type="checkbox"/>	EQ	Credit 7.2	Thermal Comfort, Permanent Monitoring System	--Credit Not Attempted--		1
1	EQ	Credit 8.1	Daylight & Views, Daylight 75% of Spaces	Project Team Administrator	Earned	1
1	EQ	Credit 8.2	Daylight & Views, Views for 90% of Spaces	Project Team Administrator	Earned	1
3		Innovation & Design Process				Possible Points: 5
1	ID	Credit 1	Innovation In Design 1.1	Architect	Earned	1
1	ID	Credit 1	Innovation In Design 1.2	Project Team Administrator	Earned	1
<input type="checkbox"/>	ID	Credit 1	Innovation In Design 1.3	--Credit Not Attempted--		1
<input type="checkbox"/>	ID	Credit 1	Innovation In Design 1.4	--Credit Not Attempted--		1
1	ID	Credit 2	LEED Accredited Professional	Project Team Administrator	Earned	1

	SS	Credit 5.1	Reduced Site Disturbance, Protect or Restore Open Space	--Credit Not Attempted--			1
1	SS	Credit 5.2	Reduced Site Disturbance, Development Footprint	★ Project Team Administrator		Earned	1
1	SS	Credit 6.1	Stormwater Management, Rate or Quantity	★ Project Team Administrator		Earned	1
	SS	Credit 6.2	Stormwater Management, Treatment	--Credit Not Attempted--			1
	SS	Credit 7.1	Landscape & Exterior Design to Reduce Heat Islands, Non-Roof	--Credit Not Attempted--			1
	SS	Credit 7.2	Landscape & Exterior Design to Reduce Heat Islands, Roof	--Credit Not Attempted--			1
1	SS	Credit 8	Light Pollution Reduction	★ Project Team Administrator		Earned	1
3	Water Efficiency					Possible Points:	5
1	WE	Credit 1.1	Water Efficient Landscaping, reduce by 50%	★ Project Team Administrator		Earned	1
	WE	Credit 1.2	Water Efficient Landscaping, No Potable Use or No Irrigation	--Credit Not Attempted--			1
	WE	Credit 2	Innovative Wastewater Technologies	--Credit Not Attempted--			1
2	WE	Credit 3.1-3.2	Water Use Reduction	★ Project Team Administrator		Earned	2
3	Energy & Atmosphere					Possible Points:	17
Yes	EA	Prerequisite 1	Fundamental Building Systems Commissioning	Commissioning Agent		Earned	0
Yes	EA	Prerequisite 2	Minimum Energy Performance	HVAC Engineer		Earned	0
Yes	EA	Prerequisite 3	CFC Reduction in HVAC&R Equipment	★ Project Team Administrator		Earned	0
0	EA	Credit 1.1-1.10	Optimize Energy Performance	★ Project Team Administrator		Denied	10
	EA	Credit 2.1-2.3	Renewable Energy	--Credit Not Attempted--			3
1	EA	Credit 3	Additional Commissioning	Commissioning Agent		Earned	1
1	EA	Credit 4	Ozone Depletion	★ Project Team Administrator		Earned	1
	EA	Credit 5	Measurement & Verification	--Credit Not Attempted--			1
1	EA	Credit 6	Green Power	Architect		Earned	1
4	Materials & Resources					Possible Points:	13
Yes	MR	Prerequisite 1	Storage & Collection of Recyclables	★ Project Team Administrator		Earned	0
	MR	Credit 1.1-1.3	Building Reuse	--Credit Not Attempted--			3
0	MR	Credit 2.1-2.2	Construction Waste Management	Architect		Attempted Clarify	2
	MR	Credit 3.1-3.2	Resource Reuse	--Credit Not Attempted--			2
2	MR	Credit 4.1-4.2	Recycled Content	Architect		Earned	2
2	MR	Credit 5.1-5.2	Local/Regional Materials	Architect		Earned	2
	MR	Credit 6	Rapidly Renewable Materials	--Credit Not Attempted--			1



LUX Art Institute

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Project Summary
Team Admin
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CIB Detail
Help
Project Selector
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SCORECARD

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Registration
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Certification / Denial

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<input type="checkbox"/>	SS	Credit 1	<input type="checkbox"/>	Site Selection	--Credit Not Attempted--			1
<input type="checkbox"/>	SS	Credit 2	<input type="checkbox"/>	Urban Redevelopment	--Credit Not Attempted--			1
<input type="checkbox"/>	SS	Credit 3	<input type="checkbox"/>	Brownfield Redevelopment	--Credit Not Attempted--			1
<input type="checkbox"/>	SS	Credit 4.1	<input type="checkbox"/>	Alternative Transportation, Public Transportation Access	--Credit Not Attempted--			1
<input checked="" type="checkbox"/>	SS	Credit 4.2	<input checked="" type="checkbox"/>	Alternative Transportation, Bicycle Storage & Changing Rooms	★ Project Team Administrator	<input checked="" type="checkbox"/>	Earned	1
<input type="checkbox"/>	SS	Credit 4.3	<input type="checkbox"/>	Alternative Transportation, Alternative Fuel Refueling Stations	--Credit Not Attempted--			1
<input checked="" type="checkbox"/>	SS	Credit 4.4	<input checked="" type="checkbox"/>	Alternative Transportation, Parking Capacity	★ Project Team Administrator	<input checked="" type="checkbox"/>	Earned	1
<input type="checkbox"/>	SS	Credit 5.1	<input checked="" type="checkbox"/>	Reduced Site Disturbance, Protect or Restore Open Space	--Credit Not Attempted--			1

<input type="checkbox"/>	MR	Credit 6	Rapidly Renewable Materials	--Credit Not Attempted--			1
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	MR	Credit 6	Rapidly Renewable Materials	--Credit Not Attempted--		1

Built in a way that light not significantly through windows, and non-emergency lighting shall be turned off during nonbusiness hours. Exterior lighting: only lite areas where safety and comfort are important and do not exceed 80% of the lighting power densities for exterior areas, & 50 % for facades.

- Storm water, all storm water runoff is filtered to prevent contaminated or dirty water from entering our storm water system and ending up in the ocean or rivers.
- Use of low-flow and water conserving fixtures to reduce water usage by 20-30% of the baseline Energy Policy Act 1992.

NATIVE LANDSCAPE

Art museums are often dedicated to the conservation and restoration of art. Lux believes that protection and conservation begins outside the museum walls and is committed to restoring the Lux site to a native landscape. Lux teamed with Greg Rubin, of California's Own Native Landscape Design to select an exquisite array of rare native plants that provide an aesthetic and ecological landscape solution.

A Model Landscape Project

Lux is one of the first institutional native landscape projects in San Diego County and is setting a precedent for sustainable gardening in the region. A tour through Lux's gardens will provide visitors the inspiration and the recipe to create their own native landscape!

California Native Plants

California native plants are plants that live and grow naturally without direct, or indirect human intervention. California native plants are in rapid decline in their land of origin due to pressures from urban development, agriculture, overgrazing, recreation, and invasive non-native species.

Why Choose Natives?

- **Aesthetic-** Some native varieties have extraordinary horticultural appeal, and have been grown in European gardens for over a century. Furthermore native landscapes borrow from surrounding scenery to fit into the natural context of the site.
- **Sense of Regional Identity-**
- **Ecological-** Native plants require less fertilizer, up to 50% less water, and less effort in pest control. Besides cutting down on the use of pesticides, fertilizers, and air- (and noise-) polluting mowers, native plant gardens benefit the environment in other ways. They stabilize soil and reduce erosion; filter storm water more effectively than exotic plantings.
- **Low Maintenance-** Native plants are adapted to local conditions and are easier to grow and maintain. This low-maintenance approach means savings, in both time and money. Once established, native plants better withstand variations in local climate such as droughts and freezes. Native wildflowers are mainly perennials or self-sowing biennials, so they take care of the next year's planting themselves.
- **Wildlife-** Native plants generally support many more species of native wildlife than non-native plants. They promote biodiversity, offering the food, nectar, cover, and nesting areas that local birds, butterflies, and mammals need.

GREEN BUILDING INFORMATION

- The building will open to provide views across the valley. The materials and colors will be derived the landscape.
- The building is a two story, approximately 3,600 sq. ft. and consists of 866 sq.ft. of residential space and 2,620 sq. ft. of studio and office space.
- The original design and energy simulation estimated an approximate 10.0% reduction in energy consumption for the commercial portion and 14% for the residential portion, compared to a building constructed to meet the California Energy Code, based on incorporating the following design features:
 - Occupancy sensors
 - Efficient HVAC systems
 - Efficient construction techniques
 - Quality Indoor Environment
 - Environmental Responsibility
 - Resource Efficiency
- The condensing units should be located away from the building, concealed with landscaping.
- The building integrates natural lighting through windows and skylights.
- The commercial portion of the new LUX Art Institute building performs 10.7% better then the requirements of the California building code. The residential portion of the new LUX Art Gallery building mechanical and building envelope performs 14.4% better then the requirements of the California building code.
- The heating and ventilating systems consist of three high efficiency condensing furnaces equipped with direct expansion cooling coil (DX). The DX coils are part of three split DX systems, with condensing units installed on a pad away from the building. Individual programmable zone thermostats control the operation of each air conditioning system. The furnace on the lower floor is vertical installed in the fan room and the supply ductwork is running in the overhead hard lid ceiling space. The two furnaces on the upper floor are horizontal and are placed in the ceiling above the kitchen and the bathroom. The air distribution consists of linear diffusers and sidewall mounted directional registers.
- Interior Lighting: The lighting throughout the building primarily utilizes halogen, low-voltage lighting, with some incandescent, compact fluorescent and fluorescent light fixtures. The average lighting density for the office space is 1.5 W/sq.ft.
- Construction waste management – more than 75% of construction waste was recycled and diverted from the landfill
- We used material with a minimum of 10% recycled content (post-consumer & ½ pre-consumer) based on the cost of total value of materials in project. Recycled content value determined by weight, then recycled fraction of assembly times cost of assembly.
- Use of regionally manufactured, harvested and extracted materials within 500 miles of the project.
- During construction an Indoor Air quality management program was implemented . Lux met control measures of SMACNA IAQ guidelines for Occupied buildings under construction, 1995, chapter 3.
- Utilized low emitting materials (adhesives and sealants) during construction. Materials meet SCAQMD rule # 1168 VOC limits as well as paints and coatings.
- Alternative Transportation, using bicycle storage and changing rooms for visitors and employees.
- Minimize light pollution – interior lighting is minimal, make usage of natureal light.