

Sustainability

LEED Project Checklist



LEED v4 for BD+C: Retail Project Checklist

Project Name: Gear Galaxy
Date: 3-Feb-24

Y ? N

Y **?** **N** Credit Integrative Process

1

0	0	0	Location and Transportation	16
Y	?	N	Credit LEED for Neighborhood Development Location	16
Y	?	N	Credit Sensitive Land Protection	1
Y	?	N	Credit High Priority Site	2
Y	?	N	Credit Surrounding Density and Diverse Uses	5
Y	?	N	Credit Access to Quality Transit	5
Y	?	N	Credit Bicycle Facilities	1
Y	?	N	Credit Reduced Parking Footprint	1
Y	?	N	Credit Green Vehicles	1

0	0	0	Sustainable Sites	10
Y	?	N	Prereq Construction Activity Pollution Prevention	Required
Y	?	N	Credit Site Assessment	1
Y	?	N	Credit Site Development - Protect or Restore Habitat	2
Y	?	N	Credit Open Space	1
Y	?	N	Credit Rainwater Management	3
Y	?	N	Credit Heat Island Reduction	2
Y	?	N	Credit Light Pollution Reduction	1

0	0	0	Water Efficiency	12
Y	?	N	Prereq Outdoor Water Use Reduction	Required
Y	?	N	Prereq Indoor Water Use Reduction	Required
Y	?	N	Prereq Building-Level Water Metering	Required
Y	?	N	Credit Outdoor Water Use Reduction	2
Y	?	N	Credit Indoor Water Use Reduction	7
Y	?	N	Credit Cooling Tower Water Use	2
Y	?	N	Credit Water Metering	1

0	0	0	Energy and Atmosphere	33
Y	?	N	Prereq Fundamental Commissioning and Verification	Required
Y	?	N	Prereq Minimum Energy Performance	Required
Y	?	N	Prereq Building-Level Energy Metering	Required
Y	?	N	Prereq Fundamental Refrigerant Management	Required
Y	?	N	Credit Enhanced Commissioning	6
Y	?	N	Credit Optimize Energy Performance	18
Y	?	N	Credit Advanced Energy Metering	1
Y	?	N	Credit Demand Response	2
Y	?	N	Credit Renewable Energy Production	3
Y	?	N	Credit Enhanced Refrigerant Management	1
Y	?	N	Credit Green Power and Carbon Offsets	2

0	0	0	Materials and Resources	13
Y	?	N	Prereq Storage and Collection of Recyclables	Required
Y	?	N	Prereq Construction and Demolition Waste Management Planning	Required
Y	?	N	Credit Building Life-Cycle Impact Reduction	5
Y	?	N	Credit Building Product Disclosure and Optimization - Environmental Product Declarations	2
Y	?	N	Credit Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
Y	?	N	Credit Building Product Disclosure and Optimization - Material Ingredients	2
Y	?	N	Credit Construction and Demolition Waste Management	2

0	0	0	Indoor Environmental Quality	15
Y	?	N	Prereq Minimum Indoor Air Quality Performance	Required
Y	?	N	Prereq Environmental Tobacco Smoke Control	Required
Y	?	N	Credit Enhanced Indoor Air Quality Strategies	2
Y	?	N	Credit Low-Emitting Materials	3
Y	?	N	Credit Construction Indoor Air Quality Management Plan	1
Y	?	N	Credit Indoor Air Quality Assessment	2
Y	?	N	Credit Thermal Comfort	1
Y	?	N	Credit Interior Lighting	2
Y	?	N	Credit Daylight	3
Y	?	N	Credit Quality Views	1

0	0	0	Innovation	6
Y	?	N	Credit Innovation	5
Y	?	N	Credit LEED Accredited Professional	1

0	0	0	Regional Priority	4
Y	?	N	Credit Regional Priority: Specific Credit	1
Y	?	N	Credit Regional Priority: Specific Credit	1
Y	?	N	Credit Regional Priority: Specific Credit	1
Y	?	N	Credit Regional Priority: Specific Credit	1

51	34	24	TOTALS	Possible Points: 110
Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110				

Integrative Process

Beginning in the pre construction phase and continuing through the design phases, project owner, designers, and construction managers from Houser Construction will meet on a regular basis (i.e. weekly) to discuss the impacts of various systems on the project. Beginning with energy related systems, the team will be able to identify the owners wants and needs while also providing solutions on how to achieve an energy efficient product. Next the team will take on the water related systems. All findings will be documented and sent to team leaders as a running list of “Meeting Minutes” so that the team may go back and see what has already been discussed and agreed to.

Location and Transportation

Sensitive Land Protection (1 point) - This site will not be developed on any environmentally sensitive lands.

Surrounding Density (5 points) - There will be over 10 services located within ½ mile of the main entrance to the job site qualifying this project for this credit.

Bicycle Facilities (1 point) - The project is a bike shop and there are plenty of bicycle facilities in the project design for *short term and long term* storage to meet this criteria.

Reduced Parking Footprint (1 point) - This project will not exceed the required parking per local code to reduce the overall footprint.

Sustainable Site

Construction Activity Pollution Prevention (prerequisite) - Houser Construction will install silt fencing and use gutter buddies to prevent construction pollution from leaving the job site. Also, in the last 15 minutes of every working day, the construction management team will walk the jobsite to ensure that all pollution prevention systems are still in place to guarantee compliance.

Site Assessment (1 Point) - Houser Construction will hire a surveying cre to conduct a site assessment.

Rainwater Management (3 points) - The design of the site will capture 95% of the rainwater, satisfying this credit and local codes.

Heat Island Reduction (2 points) - The project will provide shade over paved areas with vegetation and vegetation structures to meet compliance.

Light Pollution Reduction (1 Point) - The project will meet the requirements for uplight and light trespass requirements using the backlight - uplight - glare (BUG) method.

Water Efficiency

To reduce water consumption, Houser Construction will install low-flow plumbing fixtures, minimize or use water efficient landscaping methods, and use rainwater harvesting systems for irrigation (if any is required). This will ensure that this project will achieve a significant water usage reduction when compared to conventional buildings. This will promote water conservation and the buildings impact on local water utilities. (10 Points) see scorecard above.

Energy and Atmosphere

Houser Construction will utilize the enhanced commissioning approach when installing energy efficient equipment in the building. The construction management team will work closely with the commissioning agent that will act as an owner's representative and have no stake in project cost or schedule, making their findings unbiased and informed. Along with this, Houser Construction will install energy efficient HVAC systems and advanced lighting controls to meet the criteria for this section. (9 points) see scorecard above.

Materials and Resources

Houser Construction is committed to using environmentally friendly materials throughout the project, but first our construction management team will identify if local suppliers can provide such materials. This is a section of the scorecard where we have the potential to pick up more points based on suppliers inventory's. What we would like to do is source materials with high-recycled content, find responsibly harvested wood components, and utilize low emitting materials to improve indoor air quality. We want to also prioritize local suppliers to reduce transportation emissions. The project will also use waste streams to divert recyclable waste from landfills. (2 points with potential for more) see scorecard above.

Indoor Environmental Quality

Houser Construction will implement strategies to enhance indoor air quality. This includes better filtration systems, access to fresh air from outdoors, enhanced ventilation systems, and the use of low emitting materials. Also there will be no smoking inside or in the immediate proximity of the building, designated smoking area will be provided. We will also design spaces to maximize daylight that enters the building. (13 points) see scorecard above.

LEED Accredited Professional

Houser Construction will provide a certified LEED AP to this project that will oversee all efforts and implementation of LEED credits to project.

LEED Responsibility Matrix