



LEED-NC

LEED-NC Version 2.2 Registered Project Checklist

Cal State University - Fullerton, Student Recreation Center

Date: February 5, 2009 - Gold Certification Awarded



Yes ? No

8		6		Sustainable Sites		14 Points		Credit Approach	
Y		c		Prereq 1	Construction Activity Pollution Prevention	Required		Plans included implementation of SWPPP (Storm Water Pollution Prevention Plan)	
1		d		Credit 1	Site Selection	1		Selection of project site met requirements for avoiding development on environmentally sensitive areas	
1		d		Credit 2	Development Density & Community Connectivity	1		Project site is within urban setting of CSUF campus and within 1/2 mile of 10 "basic services."	
		d	1	Credit 3	Brownfield Redevelopment	1			
1		d		Credit 4.1	Alternative Transportation, Public Transportation Access	1		Project site is within 1/4 mile of OCTA routes 24 and 26.	
1		d		Credit 4.2	Alternative Transportation, Bicycle Storage & Changing Rooms	1		30 Bicycle racks and 12 showers were included with design to promote the use of bicycles on campus	
		d	1	Credit 4.3	Alternative Transportation, Low-Emitting and Fuel-Efficient Vehicles	1			
1		d		Credit 4.4	Alternative Transportation, Parking Capacity	1		No new parking was added to project site.	
		c	1	Credit 5.1	Site Development, Protect or Restore Habitat	1			
1		d		Credit 5.2	Site Development, Maximize Open Space	1		Vegetated open space area was 20x greater than the building footprint area through designating a portion of the Arboretum.	
		d	1	Credit 6.1	Stormwater Design, Quantity Control	1			
		d	1	Credit 6.2	Stormwater Design, Quality Control	1			
1		c		Credit 7.1	Heat Island Effect, Non-Roof	1		75% of project hardscape was new concrete with SRI>29.	
1		d		Credit 7.2	Heat Island Effect, Roof	1		Roofing was covered in a white single ply membrane with SRI=104.	
		d	1	Credit 8	Light Pollution Reduction	1			

Yes ? No

3		2		Water Efficiency		5 Points		Credit Approach	
1		d		Credit 1.1	Water Efficient Landscaping, Reduce by 50%	1		Landscape irrigation was reduced by 50% through irrigation controls.	
		d	1	Credit 1.2	Water Efficient Landscaping, No Potable Use or No Irrigation	1			
		d	1	Credit 2	Innovative Wastewater Technologies	1			
1		d		Credit 3.1	Water Use Reduction, 20% Reduction	1		40% reduction in water use through installation of low-flow lavatories, showers, urinals, and dual-flush water closets	
1		d		Credit 3.2	Water Use Reduction, 30% Reduction	1			

Yes ? No

9		8		Energy & Atmosphere		17 Points		Credit Approach	
Y		c		Prereq 1	Fundamental Commissioning of the Building Energy Systems	Required		Commissioning of building energy systems such as HVAC, electrical, and power.	
Y		d		Prereq 2	Minimum Energy Performance	Required		See EAc1	
		d		Prereq 3	Fundamental Refrigerant Management	Required		No CFC based refrigerants were used within building design.	
6		d	4	Credit 1	Optimize Energy Performance	1 to 10		Project was designed to use ~30% less energy than Title 24 standards through the implementation of energy efficient measures such as a high efficiency chiller HVAC system, high efficiency glazing, and solar shading techniques.	
		d	3	Credit 2	On-Site Renewable Energy	1 to 3			
		c	1	Credit 3	Enhanced Commissioning	1			
1		d		Credit 4	Enhanced Refrigerant Management	1		Project HVAC system runs primarily on 2 high efficiency chillers using the low global warming and ozone depletion potential refrigerant, R-134a.	
1		c		Credit 5	Measurement & Verification	1		Project will measure and verify building energy use and calibrate building energy model to insure energy sa	
1		c		Credit 6	Green Power	1		CSUF purchased "green" energy to offset 600 MWh of building energy use.	

continued...

Yes ? No

6	7	Materials & Resources	13 Points	Credit Approach
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Y	?	No	d	Prereq 1	Required	Credit Approach
			d	Prereq 1 Storage & Collection of Recyclables	Required	Recycling bins have been placed throughout the SRC to promote student involvement.
			c	Credit 1.1 Building Reuse , Maintain 75% of Existing Walls, Floors & Roof	1	
			c	Credit 1.2 Building Reuse , Maintain 100% of Existing Walls, Floors & Roof	1	
			c	Credit 1.3 Building Reuse , Maintain 50% of Interior Non-Structural Elements	1	
1			c	Credit 2.1 Construction Waste Management , Divert 50% from Disposal	1	Greater than 75% of building construction wastes were diverted from landfills through recycling, salvaging, and reuse
1			c	Credit 2.2 Construction Waste Management , Divert 75% from Disposal	1	
			c	Credit 3.1 Materials Reuse , 5%	1	
			c	Credit 3.2 Materials Reuse , 10%	1	
1			c	Credit 4.1 Recycled Content , 10% (post-consumer + ½ pre-consumer)	1	30% of project construction materials included recycled content, including structural steel, rubber flooring, roofing membrane, brick veneer, and insulation.
1			c	Credit 4.2 Recycled Content , 20% (post-consumer + ½ pre-consumer)	1	
1			c	Credit 5.1 Regional Materials , 10% Extracted, Processed & Manufactured Regionally	1	20% of project construction materials included regional content primarily through the portland cement concrete.
1			c	Credit 5.2 Regional Materials , 20% Extracted, Processed & Manufactured Regionally	1	
			c	Credit 6 Rapidly Renewable Materials	1	
			c	Credit 7 Certified Wood	1	

Yes ? No

10	5	Indoor Environmental Quality	15 Points	Credit Approach
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Y	?	No	d	Prereq 1	Required	Credit Approach
			d	Prereq 1 Minimum IAQ Performance	Required	Project met the requirements of ASHRAE std 62.1-2004
			d	Prereq 2 Environmental Tobacco Smoke (ETS) Control	Required	Project is a non-smoking site.
			d	Credit 1 Outdoor Air Delivery Monitoring	1	
			d	Credit 2 Increased Ventilation	1	
1			c	Credit 3.1 Construction IAQ Management Plan , During Construction	1	Good "housekeeping" practices were implemented during construction to minimize the affects of construction practices on building systems.
1			c	Credit 3.2 Construction IAQ Management Plan , Before Occupancy	1	Upon completion of construction, a building flush-out was performed to remove potentially hazardous gases from within the building.
1			c	Credit 4.1 Low-Emitting Materials , Adhesives & Sealants	1	All adhesives and sealants met a minimum allowable content for VOCs.
1			c	Credit 4.2 Low-Emitting Materials , Paints & Coatings	1	All paints and coatings met a minimum allowable content for VOCs.
1			c	Credit 4.3 Low-Emitting Materials , Carpet Systems	1	All carpeting was chosen to comply with the Carpet and Rug Institute's Green Label Plus program
1			c	Credit 4.4 Low-Emitting Materials , Composite Wood & Agrifiber Products	1	All composite woods were selected to contain no urea-formaldehyde binders.
			d	Credit 5 Indoor Chemical & Pollutant Source Control	1	
1			d	Credit 6.1 Controllability of Systems , Lighting	1	Occupants were given control of building lighting through multi level switching, dimmers, and shades.
1			d	Credit 6.2 Controllability of Systems , Thermal Comfort	1	Occupants have control of thermal comfort through thermostats and adjustable air diffusers.
1			d	Credit 7.1 Thermal Comfort , Design	1	Project was designed to meet the requirements of ASHRAE std 55-2004
1			d	Credit 7.2 Thermal Comfort , Verification	1	A building survey will be conducted to determine occupant comfort satisfaction levels, with changes to building systems if necessary.
			d	Credit 8.1 Daylight & Views , Daylight 75% of Spaces	1	
			d	Credit 8.2 Daylight & Views , Views for 90% of Spaces	1	

Yes ? No

4	1	Innovation & Design Process	5 Points	Credit Approach
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1			d	Credit 1.1 Innovation in Design: Exemplary Performance MRC4	1	See MRC4.1/4.2 comments
1			d	Credit 1.2 Innovation in Design: Water Efficiency 40%	1	See WEC3.1/3.2 comments
1			d	Credit 1.3 Innovation in Design: Green Housekeeping	1	Housekeeping products such as glass and floor cleaners have been selected for occupant health and environmental sensitivity benefits.
			d	Credit 1.4 Innovation in Design:	1	
1			c	Credit 2 LEED® Accredited Professional	1	TKSC and GreenWorks Studio were the LEED accredited professionals for the project.

Yes ? No

40	29	Project Totals (pre-certification estimates)	69 Points	
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Certified 26-32 points Silver 33-38 points Gold 39-51 points Platinum 52-69 points