



LEED-NC

**LEED-NC Version 2.2 Project Checklist- LEED EQUIVALENT**

Project: Cal State University, Fullerton - Children's Center

Date: 2/9/2009

Yes ? No

7				2		5		Sustainable Sites		14 Points	Credit Approach
Y				c	Prereq 1	Construction Activity Pollution Prevention		Required			
1				d	Credit 1	Site Selection		1	Project site that has been selected was a previously developed parking lot.		
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."		
			1	d	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	Children's Center will incorporate bicycle storage and showers for staff are located in nearby Student Rec. Center. However, it is beyond the 200 yard maximum distance.		
	1			d	Credit 4.3	Alternative Transportation, Low-Emitting and Fuel-Efficient Vehicles		1	Children's Center parking can designate 2 parking stalls for Low-emitting and Fuel-Efficient vehicles.		
1				d	Credit 4.4	Alternative Transportation, Parking Capacity		1	The new development reduces the parking capacity of the site from existing parking counts.		
			1	c	Credit 5.1	Site Development, Protect or Restore Habitat		1			
1				d	Credit 5.2	Site Development, Maximize Open Space		1	Project will include open space exceeding the combined building footprint areas including pedestrian hardscape, play area & vegetated areas.		
			1	d	Credit 6.1	Stormwater Design, Quantity Control		1			
			1	d	Credit 6.2	Stormwater Design, Quality Control		1			
1				c	Credit 7.1	Heat Island Effect, Non-Roof		1	Greater than 50% of site hardscape will have an SRI value exceeding 29.		
1				d	Credit 7.2	Heat Island Effect, Roof		1	Roofing will be covered in a white/tan single ply membrane with SRI > 78		
			1	d	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 will be reduced by >50% through irrigation controls, drought tolerant landscaping, and drip irrigation
			1	d	Credit 1.2	Water Efficient Landscaping, No Potable Use or No Irrigation		1	
			1	d	Credit 2	Innovative Wastewater Technologies		1	
1				d	Credit 3.1	Water Use Reduction, 20% Reduction		1	Reduction in water use through installation of low-flow lavatories and dual flush water closets.
1				d	Credit 3.2	Water Use Reduction, 30% Reduction		1	Calculations required to show compliance

Yes ? No

4				13		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	Required in California
Y				d	Prereq 3	Fundamental Refrigerant Management		Required	No CFC based refrigerants were used within building design.
2			8	d	Credit 1	Optimize Energy Performance		1 to 10	Project is being designed to use >14% less energy than Title 24 standards through the implementation of energy efficient measures such as high efficiency glazing, R-19 thermal insulation, cool roofing materials, etc.
			3	d	Credit 2	On-Site Renewable Energy		1 to 3	
			1	c	Credit 3	Enhanced Commissioning		1	
1				d	Credit 4	Enhanced Refrigerant Management		1	Project air conditioning uses the low global warming and ozone depletion potential refrigerant, R-410a.
			1	c	Credit 5	Measurement & Verification		1	
1				c	Credit 6	Green Power		1	Low cost point. Can buy green power from any provider.

continued...

Yes ? No

<b>2</b>	<b>4</b>	<b>7</b>	<b>Materials &amp; Resources</b>	<b>13 Points</b>	<b>Credit Approach</b>
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Y	?	No	d	Prereq 1	Required	Credit Approach
			d	<b>Storage &amp; Collection of Recyclables</b>		<b>Recycling bins will be provided</b>
			c	Credit 1.1 <b>Building Reuse</b> , Maintain 75% of Existing Walls, Floors & Roof	1	
			c	Credit 1.2 <b>Building Reuse</b> , Maintain 100% of Existing Walls, Floors & Roof	1	
			c	Credit 1.3 <b>Building Reuse</b> , Maintain 50% of Interior Non-Structural Elements	1	
			c	Credit 2.1 <b>Construction Waste Management</b> , Divert 50% from Disposal	1	<b>Greater than 75% of building construction wastes is planned to be diverted from landfills through recycling, salvaging, and reuse.</b>
			c	Credit 2.2 <b>Construction Waste Management</b> , Divert 75% from Disposal	1	
			c	Credit 3.1 <b>Materials Reuse</b> , 5%	1	
			c	Credit 3.2 <b>Materials Reuse</b> , 10%	1	
			c	Credit 4.1 <b>Recycled Content</b> , 10% (post-consumer + ½ pre-consumer)	1	<b>Bldg materials: Drywall, Steel, Carpet, Insulation, Fly Ash</b>
			c	Credit 4.2 <b>Recycled Content</b> , 20% (post-consumer + ½ pre-consumer)	1	<b>Bldg materials: Aluminum, Recycled Base, Acoustic Ceiling Tiles,</b>
			c	Credit 5.1 <b>Regional Materials</b> , 10% Extracted, Processed & Manufactured Regionally	1	<b>Bldg materials: Concrete, CMU, Asphalt, Landscape</b>
			c	Credit 5.2 <b>Regional Materials</b> , 20% Extracted, Processed & Manufactured Regionally	1	<b>Bldg materials: Concrete, CMU, Asphalt, Landscape</b>
			c	Credit 6 <b>Rapidly Renewable Materials</b>	1	
			c	Credit 7 <b>Certified Wood</b>	1	<b>FSC approved Trusses, Lumber, Plywood, Wood Doors for 50% of wood-based material</b>

Yes ? No

<b>14</b>	<b>1</b>	<b>Indoor Environmental Quality</b>	<b>15 Points</b>	<b>Credit Approach</b>
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Y	?	No	d	Prereq 1	Required	Credit Approach
			d	<b>Minimum IAQ Performance</b>		<b>Meet OA per ASHRAE 62.1-2004</b>
			d	<b>Prereq 2 Environmental Tobacco Smoke (ETS) Control</b>	Required	<b>Ban smoking within 25 ft. of bldgs &amp; play areas</b>
			d	Credit 1 <b>Outdoor Air Delivery Monitoring</b>	1	<b>CO2 sensors, Monitoring Locations provided</b>
			d	Credit 2 <b>Increased Ventilation</b>	1	<b>30% more OA than Prereq 1 (ASHRAE 62.1-2004). Calculation required</b>
			c	Credit 3.1 <b>Construction IAQ Management Plan</b> , During Construction	1	<b>Good "housekeeping" practices will be implemented during construction to minimize the affects of construction practices on building systems.</b>
			c	Credit 3.2 <b>Construction IAQ Management Plan</b> , Before Occupancy	1	<b>Upon completion of construction, either a building flush-out will be performed to remove potentially hazardous gases from within the building or IAQ testing to ensure gases are not present.</b>
			c	Credit 4.1 <b>Low-Emitting Materials</b> , Adhesives & Sealants	1	<b>All adhesives and sealants will be required to meet a minimum allowable content for VOCs.</b>
			c	Credit 4.2 <b>Low-Emitting Materials</b> , Paints & Coatings	1	<b>All paints and coatings will be required to meet a minimum allowable content for VOCs.</b>
			c	Credit 4.3 <b>Low-Emitting Materials</b> , Carpet Systems	1	<b>All carpeting will be required to comply with the Carpet and Rug Institute's Green Label Plus program</b>
			c	Credit 4.4 <b>Low-Emitting Materials</b> , Composite Wood & Agrifiber Products	1	<b>All composite woods will be selected to contain no urea-formaldehyde binders.</b>
			d	Credit 5 <b>Indoor Chemical &amp; Pollutant Source Control</b>	1	
			d	Credit 6.1 <b>Controllability of Systems</b> , Lighting	1	<b>Occupants were given control of building lighting through multi level switching, dimmers, and shades.</b>
			d	Credit 6.2 <b>Controllability of Systems</b> , Thermal Comfort	1	<b>Occupants have control of thermal comfort through thermostats and operable windows.</b>
			d	Credit 7.1 <b>Thermal Comfort</b> , Design	1	<b>Project will be designed to meet the requirements of ASHRAE std 55-2004</b>
			d	Credit 7.2 <b>Thermal Comfort</b> , Verification	1	<b>A building survey will be conducted to determine occupant comfort satisfaction levels, with changes to building systems if necessary.</b>
			d	Credit 8.1 <b>Daylight &amp; Views</b> , Daylight 75% of Spaces	1	<b>Project has carefully selected window glazing types and sized glazing to provide sufficient daylighting to building occupants.</b>
			d	Credit 8.2 <b>Daylight &amp; Views</b> , Views for 90% of Spaces	1	<b>Building layouts have been designed to provide views to all occupied rooms</b>

Yes ? No

<b>3</b>	<b>2</b>	<b>Innovation &amp; Design Process</b>	<b>5 Points</b>	<b>Credit Approach</b>
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			d	Credit 1.1 <b>Innovation in Design: Education Outreach</b>	1	<b>Add built-in signage, develop green website / case study</b>
			d	Credit 1.2 <b>Innovation in Design: Green Housekeeping</b>	1	<b>Housekeeping products such as glass and floor cleaners have been selected for occupant health and environmental sensitivity benefits.</b>
			d	Credit 1.3 <b>Innovation in Design:</b>	1	
			d	Credit 1.4 <b>Innovation in Design:</b>	1	
			c	Credit 2 <b>LEED® Accredited Professional</b>	1	<b>CTA is the LEED accredited professional for the project.</b>

Yes ? No

<b>33</b>	<b>6</b>	<b>30</b>	<b>Project Totals (pre-certification estimates)</b>	<b>69 Points</b>	
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Certified 26-32 points Silver 33-38 points Gold 39-51 points Platinum 52-69 points