

UCSD Rimal Annex, 3680

UCSD LEED for New Construction Equivalent



GREEN FIELDS
sustainable design & construction consulting

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26 0 43 12/22/10: UC LEED Equivalent Review

Yes			?			No			Sustainable Sites		14 Points	Notes
7	0	7										
Y			Prereq 1	Erosion and Sedimentation Control	Required							RBF provided the Erosion Control Plan, and specification for the SWPPP. Project meets the intent of the EPA 832/R-92 005 by preventing soil loss, drain inlet protection, storm preparation, stockpiling, and the maintenance of these measures.
1			Credit 1	Site Selection	1							GF confirmed that the project site does not meet any of the prohibited criteria. Prohibited criteria: -Prime farmland: Project site is carlsbad gravelly loamy sand or chesterton fine sandy loam, and is NOT classified as prime farmland - Project complies -Flood Zone: Documentation provided by Turner for North Campus Housing confirms the project site is in FEMA flood zone X, which is defined as area outside the 100 year flood -Critical Habitat: The closest critical habitat to the project site is east of interstate highway 805 - Project complies. -Within 100 feet of any water body: The project site is not within 100' of any water body including wetlands - Project complies. -Parkland: The project site area was not previously public parkland prior to acquisition for the project - Project complies.
1			Credit 2	Development Density	1							Project meets community connectivity requirements. The project site is within a 1/2 mile of 10 basic services and a residential area with 10 or more units per acre net.
		1	Credit 3	Brownfield Redevelopment	1							Not attempted
1			Credit 4.1	Alternative Transportation: Public Transportation Access	1							University provided documentation which confirms the project is within 1/4 mile of more than two separate bus lines.
1			Credit 4.2	Alternative Transportation: Bicycle Storage & Changing Rooms	1							Documentation provided indicates location of showers and bike racks which serve the building occupants.
		1	Credit 4.3	Alternative Transportation: Alt. Fuel Vehicles	1							Not attempted
1			Credit 4.4	Alternative Transportation: Parking Capacity	1							Not attempted
		1	Credit 5.1	Site Development: Protect or Restore Habitat	1							Not attempted
1			Credit 5.2	Site Development: Maximize Open Space	1							The project team provided documentation that indicates the open space for the project (the softball field) is well above the area of the development footprint.
		1	Credit 6.1	Stormwater Design: Rate and Quantity	1							Not attempted
		1	Credit 6.2	Stormwater Design: Treatment	1							Not attempted

1		
		1
		1

Credit 7.1

Heat Island Effect, Non-Roof	1	Scofield concrete colors listed on Hardscape Plan meet credit requirements (using LEED-NC v2.2 requirements), of a min SRI of 29 (per http://www.scofield.com/LEED/SRI_CHROMIX.pdf), and concrete paving used in softball area appears to be typical gray concrete per specifications, which will meet the credit requirements as well
Heat Island Effect, Roof	1	Not attempted.
Light Pollution Reduction	1	Not attempted

Yes	?	No
3	0	2

Water Efficiency	5 Points	Notes
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1		
1		
		1
1		
		1

Credit 1.1

Water Efficient Landscaping: Reduce by 50%	1	The landscape irrigation uses reclaimed water, which achieves 2pts for WEc1. Reclaimed water map included.
Water Efficient Landscaping: No Potable Use or No Irrigation	1	
Innovative Wastewater Technologies	1	Not attempted
Water Use Reduction: 20% Reduction	1	The fixtures listed on P0.2 of the 1/29/10 As Builts achieve a water savings of approximately 24%.
Water Use Reduction: 30% Reduction	1	Not attempted

Yes	?	No
4	0	13

Energy & Atmosphere	17 Points	Notes
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Y		
Y		
Y		
4	0	6
		3
		1
		1
		1
		1

Prereq 1

Fundamental Commissioning of the Building Energy Systems	Required	Team provided Basis of Design, Cx specification, training logs. UCSD commissioning procedures meet LEED requirements.
Minimum Energy Performance	Required	Mechanical engineer provided energy use summary and confirmed projects out performs T24 by 19%. See
CFC Reduction in HVAC&R Equipment	Required	Project base building does not utilize CFC based refrigerants; see attached mechanical schedule. The project is connected to the Central Utility Plant, which uses R-500 (CFC). We have provided the letter to the USGBC confirming that it is economically infeasible to replace the refrigerant.
Optimize Energy Performance	1 to 10	Team claims 4 pts, which requires a 17.51% reduction over Title 24-2001. Perf-1 indicates projects achieves energy savings of 19.3%.
Renewable Energy	3	Not attempted
Additional Commissioning	1	Not attempted
Ozone Depletion	1	Not attempted
Measurement & Verification	1	Not attempted
Green Power	1	Not attempted

continued

Yes	?	No
1	0	12

Materials & Resources	13 Points	Notes
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Y		
		1
		1
		1

Prereq 1

Storage & Collection of Recyclables	Required	Documentation indicating each recycling collection area for the building has been provided, in combination with UCSD's recycling program, the requirements for this prerequisite are met.
Building Reuse: Maintain 25% of Existing Walls, Floors & Roof	1	Not attempted
Building Reuse: Maintain 50% of Existing Walls, Floors & Roof	1	
Building Reuse: Maintain 75% of Interior Non-Structural Element	1	

Yes ? No			Innovation & Design Process		5 Points	Notes
2	0	3				
1			Credit 1.1	Innovation in Design: Comprehensive Alt. Trans.	1	UCSD has a comprehensive alternative transportation program which has measureable reductions in personal vehicle trips to and from campus.
		1	Credit 1.2	Innovation in Design:	1	Not attempted
		1	Credit 1.3	Innovation in Design:	1	Not attempted
		1	Credit 1.4	Innovation in Design:	1	Not attempted
1			Credit 2	LEED® Accredited Professional	1	Documentation provided for Brian Pratt, nothing else required.
Yes ? No	26 0 43 Totals (pre-certification estimates)			69		

Certified: 26 to 32 points, Silver: 33 to 38 points, Gold: 39 to 51 points, Platinum: 52 to 69 points