## UCSD Rimac Annex, 3680

**UCSD LEED for New Construction Equivalent**

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### Sustainable Sites

<table>
<thead>
<tr>
<th>Credit</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Development Density</td>
<td>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.</td>
</tr>
<tr>
<td>1</td>
<td>Brownfield Redevelopment</td>
<td>Not attempted</td>
</tr>
<tr>
<td>1</td>
<td>Alternative Transportation: Public Transportation Access</td>
<td>University provided documentation which confirms the project is within 1/4 mile of more than two separate bus lines.</td>
</tr>
<tr>
<td>1</td>
<td>Alternative Transportation: Bicycle Storage &amp; Changing Rooms</td>
<td>Documentation provided indicates location of showers and bike racks which serve the building occupants.</td>
</tr>
<tr>
<td>1</td>
<td>Alternative Transportation: Alt. Fuel Vehicles</td>
<td>Not attempted</td>
</tr>
<tr>
<td>1</td>
<td>Alternative Transportation: Parking Capacity</td>
<td>Not attempted</td>
</tr>
<tr>
<td>1</td>
<td>Site Development: Protect or Restore Habitat</td>
<td>Not attempted</td>
</tr>
<tr>
<td>1</td>
<td>Site Development: Maximize Open Space</td>
<td>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.</td>
</tr>
</tbody>
</table>

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- **Credit 1** Site Selection
  - 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.
    - 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 - Project complies.
        - 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.
**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.

**Credit 7.2**

**Heat Island Effect, Roof**

1 Not attempted.

**Credit 8**

**Light Pollution Reduction**

1 Not attempted

### Water Efficiency

| 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. |
| Credit 1.2 | Water Efficient Landscaping: No Potable Use or No Irrigation | 1 | |
| Credit 2 | Innovative Wastewater Technologies | 1 | Not attempted |
| Credit 3.1 | 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%. |
| Credit 3.2 | Water Use Reduction: 30% Reduction | 1 | Not attempted |

### Energy & Atmosphere

**Y** 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.

**Y** Prereq 2  **Minimum Energy Performance**  Required  Mechanical engineer provided energy use summary and confirmed projects out performs T24 by 19%.

**Y** Prereq 3  **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.

**Credit 1**  **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%.

**Credit 2**

3 Renewable Energy

1 Additional Commissioning

1 Ozone Depletion

1 Measurement & Verification

1 Green Power

### Materials & Resources

**Y** 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.

**Credit 1.1**

Building Reuse: Maintain 25% of Existing Walls, Floors & Roof

1

**Credit 1.2**

Building Reuse: Maintain 50% of Existing Walls, Floors & Roof

1 Not attempted

**Credit 1.3**

Building Reuse: Maintain 75% of Interior Non-Structural Elements

1
### Construction Waste Management: Divert 50% from Disposal

The team has included construction diversion information for dedicated recycling loads as well as the SANCO Services Resource Recovery Facility monthly records. The project achieved over a 50% diversion in construction waste.

#### Credit 2.1
- Divert 50% from Disposal
- Not attempted

#### Credit 2.2
- Divert 75% from Disposal
- Not attempted

#### Credit 3.1
- Resource Reuse: 5%
- Not attempted

#### Credit 3.2
- Resource Reuse: 10%
- Not attempted

#### Credit 4.1
- Recycled Content: 5% (post-consumer + ½ pre-consumer)
- No documentation provided.

#### Credit 4.2
- Recycled Content: 10% (post-consumer + ½ pre-consumer)
- Not attempted

#### Credit 5.1
- Regional Materials: 20% Manufactured Regionally
- Not attempted

#### Credit 5.2
- Regional Materials: 20% Extracted, Processed & Manufactured Regionally
- Not attempted

#### Credit 6
- Rapidly Renewable Materials: 2.5%
- Not attempted

#### Credit 7
- Certified Wood
- Not attempted

### Indoor Environmental Quality

#### Minimum IAQ Performance
- Required
- The mechanical engineer provided a description of the 100% outside air system and provided the T24 outside air analysis.

#### Carbon Dioxide Monitoring
- Required
- Not attempted

#### Increased Ventilation
- Required
- Not attempted

#### Construction IAQ Management Plan: During Construction
- Not attempted

#### Construction IAQ Management Plan: Before Occupancy
- Required
- Not attempted

#### Low-Emitting Materials: Adhesives & Sealants
- All adhesives and sealants meet VOC requirements. Cut sheets provided for each material.

#### Low-Emitting Materials: Paints & Coatings
- All Frazee paints and coatings meet VOC requirements.

#### Low-Emitting Materials: Carpet Systems
- InterfaceFLOR GlasBac Tile and EnviroTech carpet adhesive meet the credit requirements.

#### Low-Emitting Materials: Composite Wood & Agrifiber Products
- Not attempted

#### Indoor Chemical & Pollutant Source Control
- The project was designed around this credit. There are three entry mats at the high volume building entrances, dedicated exhaust for the janitors room and the janitors room is plumbed or liquid waste disposal and includes full height walls.

#### Controllability of Systems: Perimeter spaces
- Not attempted

#### Controllability of Systems: Non perimeter spaces
- Not attempted

#### Thermal Comfort: Compliance with ASHRAE 55-1992
- The 'Indoor Design Conditions' provided in the BOD dated 11/2004 are met, this credit is very feasible.

#### Thermal Comfort: Verification
- Not attempted

#### Daylight & Views: Daylight 75% of Spaces
- Not attempted

#### Daylight & Views: Views for 90% of Spaces
- Floor plans and sections provided indicating location of vision glazing.
<table>
<thead>
<tr>
<th>Credit</th>
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<th>Points</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Innovation in Design: Comprehensive Alt. Trans.</td>
<td>1</td>
<td>UCSD has a comprehensive alternative transportation program which has measurable reductions in personal vehicle trips to and from campus.</td>
</tr>
<tr>
<td>1.2</td>
<td>1</td>
<td>Not attempted</td>
<td></td>
</tr>
<tr>
<td>1.3</td>
<td>1</td>
<td>Not attempted</td>
<td></td>
</tr>
<tr>
<td>1.4</td>
<td>1</td>
<td>Not attempted</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>LEED® Accredited Professional</td>
<td>1</td>
<td>Documentation provided for Brian Pratt, nothing else required.</td>
</tr>
</tbody>
</table>

**Totals (pre-certification estimates)**

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

Date: 12/22/2010