



## Facility Design and Construction

# Alameda County Juvenile Justice Center

## LEED® GOLD — 43 POINTS

The U.S. Green Building Council evaluated the Alameda County Juvenile Justice Center using the internationally recognized Leadership in Energy and Environmental Design (LEED) Rating System. The following points earned the facility a Gold rating.

### Sustainable Sites (5 pts)

**(1 pt) Credit 5.1: Alternative Transportation, Parking Capacity**

Method: Preferred parking for car/van pools to serve 7.52% of occupants

**(1 pt) Credit 5.2: Reduced Site Disturbance**

Method: Dedicated open space, equal in size to the building footprint

**(1 pt) Credit 6.1 Stormwater Management, Rate/Quantity**

Method: Implemented a stormwater management plan

**(1 pt) Credit 6.2: Stormwater Management, Treatment**

Method: Designed in accordance with EPA best management practices

**(1 pt) Credit 7.2: Reduce Heat Islands**

### Indoor Air Quality (10 pts)

**(1 pt) Credit 1: Carbon Dioxide (CO2) Monitoring**

Method: Installed a CO2 monitoring system

**(1 pt) Credit 3.1: IAQ Management Plan, During Construction**

Method: Developed and implemented a construction IAQ mgmt plan

**(1 pt) Credit 3.2: IAQ Management Plan, Before Occupancy**

Method: Conducted a two-week flushout prior to occupancy

**(1 pt) Credit 4.1: Low-Emitting Materials, Adhesives & Sealants**

Method: Adhesive/sealant products comply with specified VOC limits

**(1 pt) Credit 4.2: Low-Emitting Materials, Paints**

Method: Paint products comply with VOC limits of Green Seal GS-11

**(1 pt) Credit 4.3: Low-Emitting Materials, Carpet**

Method: Carpet systems comply with CRI Green Label Testing program

**(1 pt) Credit 4.4: Low-Emitting Materials, Composite Wood**

Method: Indoor composite wood materials contain no urea-formaldehyde

**(1 pt) Credit 5: Indoor Chemical and Pollutant Source Control**

Method: Installed indoor chemical/pollutant source control measures

**(1 pt) Credit 7.1: Thermal Comfort, Compliance with ASHRAE 55-1992**

Method: Designed to maintain indoor comfort within the established ranges

**(1 pt) Credit 7.2: Thermal Comfort, Permanent Monitoring System**

Method: Installed a permanent temperature and humidity monitoring system

### Energy and Atmosphere (17 pts)

**(10 pts) Credits 1.1-1.5: Optimize Energy Performance**

Method: Project performs 75% better than Title-24 2001

**(3 pts) Credit 2.1-2.3: Renewable Energy**

Method: Onsite photovoltaic system offsets 47.9% of building's energy cost

**(1 pt) Credit 3: Additional Commissioning**

Method: Additional commissioning elements completed

**(1 pt) Credit 4: Ozone Protection**

Method: HVAC&R systems use no HCFC-based refrigerants/halons

**(1 pt) Credit 5: Measurement & Verification**

Method: Developed/implemented a measurement and verification plan

**(1 pt) Credit 6: Green Power**

Method: Tradable Renewable Certificates equal to 50% of energy costs

## Facts at a Glance

- New 379,000 sq. ft. facility located in San Leandro, California
- Five court rooms and nine agencies provide integrated services
- 360-bed juvenile detention facility
- LEED® Gold green building rating

## PROJECT CONTACT

### Alameda County General Services Agency

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### Water Efficiency (3 pts)

**(1 pt) Credit 1.1: Water Efficient Landscaping, Reduce by 50%**

Method: Irrigation systems reduce potable water consumption by 51.9%

**(2 pts) Credit 3.1-3.2: Water Use Reduction, 30% Reduction**

Method: Low-flow devices reduce potable water use by 41.23%

### Materials and Resources (3 pts)

**(2 pts) Credit 2.1-2.2: Construction Waste Management**

Method: Diverted 4,689 tons (92.98%) of construction waste

**(1 pt) Credit 4.1: Recycled Content, Specify 5%**

Method: Building material recycled content equaled 6.13% by value

### Innovation and Design (5 pts)

**(1 pt) Credit 1.1: Exemplary Performance, EA6**

Method: Tradable Renewable Certificates equal to 50% of energy costs

**(1 pt) Credit 1.2: Green Housekeeping**

Method: Implemented a green housekeeping program

**(1 pt) Credit 1.3 Exemplary Performance, EA3**

Method: An onsite photovoltaic system offsets 47.9% of energy cost

**(1 pt) Credit 1.4: Biodiesel**

Method: 45% of the heavy equipment fuel was B20 biodiesel

**(1 pt) Credit 1.5 LEED™ Accredited Professional**

Method: A LEED AP participated on the project development team