



# American Institute of Architects

## SAN MATEO COUNTY CHAPTER

# MAY FORUM TOUR EVENT

## 'Eichler Green Remodel - Building & Construction Tour'

Join us & visit this amazing LEED Platinum project of a Claude Oakland designed home.

\*sensible shoes are recommended.

Go to [www.eichlervision.com](http://www.eichlervision.com) for more information.

In keeping with the construction site nature of this tour, food will be provided by mobile catering truck.

### Learning Objectives:

- Review design practices and materials in a 'LEED for Homes' project (goal is Platinum).
- See the integration of Ground Source Heat Pump/Site Design/Foundation Design.
- Assess the connection details utilized for Structural Insulated Panels (SIPs).
- Review of LEED-H verification process and the responsibilities of a 'Green Rater'.
- Observe techniques and opportunities of blending Reclaimed and FSC-certified lumber with new construction.

**Wednesday, May 26, 2010**

**5:30-6:20 PM – Registration/Networking/Tacos**

**6:30-7:30 PM – Introductions and Presentation**

**7:30-8:30 PM – Tour with Q&A/Networking**

**\*Location: 17509 Via Sereno  
Monte Sereno, CA 95030**

**RSVP TODAY – THIS EVENT HAS A  
ATTENDANCE LIMIT – IT WILL BE  
ANNOUNCED TO OTHERS AS WELL**

**\$10 AIA-SMC Members**

**\$12.50 Non-Members**

\*All attendees will be asked to sign a liability waiver upon entering, this is a construction site.

**RSVP: to Martha D'Amico at the AIASMC office at 650.348.5133 or [aiasmc@sbcglobal.net](mailto:aiasmc@sbcglobal.net)**

**EICHLER GREEN**

LEED-H, Registered Project  
Goal: Platinum

**Renewable Energy**  
48 - 175 watt photovoltaic solar panels (8.4 kWh) to be a net generator of electricity

3,000 ft ground loop in 25 concrete shoring piers for water-to-water geothermal heat exchange (both heating and cooling)

**Indoor Air Quality**  
Displacement air ventilation with low-velocity, continuous, filtered external air  
Central vacuum with external exhaust and exhaust fan in garage  
Polished concrete floor for enhanced indoor air quality, low maintenance and durability

**Sustainable**  
FSC-certified lumber and exposed beams are reclaimed locally  
70% slag in all concrete and 50% slag in all shotcrete  
Locally-manufactured hollow core concrete panels  
Exposed fascia is natural zinc for durability and low maintenance

[www.eichlervision.com](http://www.eichlervision.com)

**Overall**  
Net zero energy, zero carbon (no combustion inside the house)  
Exceeds Title 24 by 72.9% (highest in the State of California)  
Deconstructed original house and reused 100% of original Redwood 2x6 roof decking and 4x Douglas Fir beams  
Maintained original footprint and added 18 sq ft to reduce the external surface area to almost a perfect square (4,730 sq ft of conditioned space)

**Water**  
Harvest 100% of rainwater from the roof and store it in a 3,877 gallon underground cistern (made with recycled plastic) for irrigating drought-tolerant native California plants  
100% of hardscape runoff goes to the cistern or to permeable landscaping  
Dual flush toilets and low-flow water fixtures  
Automated swimming pool cover to reduce evaporator and reduce heating requirements

**Integrated Design**  
Natural daylighting throughout the house to reduce lighting requirements  
Deep roof overhangs for solar shading except in the Winter months  
White, reflective 'cool roof' to reduce solar gain and light-colored hardscape to reduce heat island effects  
Operable clerestory windows for cross-ventilation with prevailing winds  
SIP roof (R-47) and SIP wall (R-24) to reduce heating/cooling requirements  
Expanded existing wall cavity from 2x4 to 2x6 for additional insulation (closed cell natural soy foam)  
High performance windows (dual pane, low-emissivity, argon-filled)  
1.5 million pounds of insulated thermal mass inside the house (R-10 under the 20-inch concrete mat slab made with 70% slag)

**TEAMWRKX CONSTRUCTION**

**Jrider + Design**  
Conceive | Visualize | Implement



This program meets AIA/CES criteria. Participants will receive 1 Learning Unit in Sustainable Design (SD).

**Walk the Walk**  
Architects Leading the Sustainable Evolution™

