

Siegel & Strain Architects at UC Davis

2013-06-05



The new Jesse S. Jackson Sustainable Winery in Davis, California, was designed by [Siegel & Strain Architects](#). Photo: Courtesy Guttman & Blaevoet Consulting Engineers

The new Jess S. Jackson Sustainable Winery Building (JSWB) has opened on the campus of UC Davis, in Davis, California. The 8,500-square-foot industrial building is the result of a design-build collaboration between [Siegel & Strain Architects](#) and Pankow Builders. The JSWB will house teaching and research facilities for winery, brewery, and food-processing activities.

Thanks to a five-kilowatt photovoltaic array, which can be expanded to 30 kilowatts to support future increases in energy needs, the building is expected to operate at a "net-zero" energy level. This is achieved with a series of aggressively sustainable passive systems, including a tight, super-insulated building envelope, and substantial thermal mass, including a concrete slab, CMU stub walls, and a future rock bed, that supports a night-ventilation cooling strategy.



Interior of the JSWB. Photo: Courtesy Guttman & Blaevoet Consulting Engineers

The winery's aesthetic is decidedly industrial, with an exposed steel primary structure and corrugated metal siding used as a finish material on the building exterior. A certification of Net-Zero Energy from the Living Building Challenge is expected.

Project Credits

- **Builder:** Pankow Builders
- **Architect:** [Siegel & Strain Architects](#)
- **Structural Engineer:** Ingraham/DeJesse Associates
- **Mechanical /Electrical/Plumbing Engineer and Energy modeling:** Guttman & Blaevoet Consulting Engineers
- **Civil and Landscape:** Cunningham Engineering
- **Geotechnical:** Treadwell and Rollo
- **Quality Assurance Manager of Commissioned Systems:** Environmental Building Strategies
- **Mechanical/Plumbing:** Arco
- **Electrical:** Collins Electric

- **Fire Protection:** Marquee



Vertical fins shade the windows of the JSWB. Photo: Courtesy Guttman & Blaevoet Consulting Engineers



Facade detail. Photo: Courtesy Guttman & Blaevoet Consulting Engineers

Source: Architecture Week People & Places Blog