

The Inman Family Winery Project: The Embodiment of Eco-Ethics

3900 Piner Road, Santa Rosa, CA

Maintaining Farming Architectural Heritage of the Site: The Inman Family Winery will be located at the organically farmed Olivet Grange Vineyard. The new winery will occupy the same footprint as the old redwood barn which was on the property when purchased from the family which had owned it for the previous 116 years. This redwood was saved and will be used on the interior of the winery.

Recycled Steel: The building is engineered to use the minimum amount of steel required and the lighter steel structure means reduced footings and foundations, which reduce the concrete used. Nearly all of the steel used to make the primary frame of the building is from post consumer and post industrial recycled materials (old automobiles turned to new buildings!) To further reduce the carbon footprint, the building is fabricated in California, reducing transportation energy costs.

Recycled Aggregates: The aggregates used in the foundation, for the carpark and in the concrete in some areas are 100% recycled and in others contain some recycled materials.

Paint Finishes: Paint on the exterior as well as caulks and adhesives are all low VOC. Interior paints will be zero-VOC.

Energy Efficient: The wall and ceiling sandwich panels have very high insulation values: R-30 for the walls and the "cool roof" is R-38. Further energy saving will be made with argon-filled "Low E" windows. High insulation levels combined with a night air cooling eliminate air conditioning requirements. LED lights will use a fraction of the energy of standard lights and with no mercury waste to deal with as in fluorescent lighting.

Solar Power: Our building's solar system will be sized to provide 98% of our projected energy requirement. Forklifts, appliances and other systems will be electric to ensure we are using the greenest power possible.

Heat-Island Effect: The combination of the cool metal roofs and the use of decomposed granite rather than black tarmac will reduce the heat-island effect, minimizing the impact buildings have on microclimate and human and wildlife habitat.

Waste Water Recycling: All gray water, both winery process waste water and water from kitchen, bathroom and tasting room will be recycled and available for reuse in the vineyard.

Toilets and sinks: We will be installing extremely low water use ADA compliant toilets from Toto. The faucets we have ordered are also water savers and all confirm to the lead free requirements for CA.

Post Consumer Recycled Materials: Besides the building frame, the flooring and countertops will be made from various recycled materials: cork, rubber, concrete, pottery and glass (including a tasting bar made from used wine bottles from the SF Bay Area). Local manufacturers are our preferred suppliers.

Official Electric Vehicle Charging Station: Inman Family will be of the first if not the first small business to install an EV charge point. Guests of the winery will be able to charge their electrical vehicle from our solar power while having a tour of our organic vineyard and gardens or tasting the fruits of our labors.

