

Hayward Building Systems/Truss Plant Goes Green

Project: Hayward Building Systems/Truss Plant

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Location: Santa Maria, CA



View of Plant from Street (Photo credit: Margot McDonald)

Demonstration

The Hayward Corporation, a leading supplier of environmentally friendly building materials, has put into action their company philosophy of environmental stewardship and sustainability under a "People, Planet, Profits" approach when they elected to design and build a truss factory that went beyond traditional construction materials and techniques in order to reflect the company's sense of responsibility and leadership in environmental issues. From the reuse of an existing building site that retains its connection to the historic railroad lines for shipping products to selection of interior finishes for good indoor air quality, the project has succeeded in combining a wide array of green building and landscape strategies that mirrors their company motto.

Project Description

Built in 2002, the combined 50,000 square foot factory and office building are used for the design, manufacture, and shipping of engineered wood components.

Construction materials were selected for their efficiency, low toxicity, and recycled content.

Examples of Reused and Recycled-Content Building Products

- **Recycled structural steel:** Framing members for the production and assembly area.
- **Insulation:** Recycled cellulose insulation used in walls and ceilings.
- **Recycled glass:** Recovered from industrial uses and reused as aggregate in concrete for countertops.
- **Recycled flooring:** Wood tiles, carpet, and rubber flooring materials used.
- **Parking surfaces:** Recycled gravel from existing, on-site concrete pad and permeable concrete pavers in parking areas to promote positive drainage.

Examples of Sustainably Harvested or Environmentally Friendly Building Products

- **Framing lumber:** Forest Stewardship Council (FSC) certified lumber for administrative office area.
- **Interior wood products:** Medium Density Fiberboard (MDF) and certified wood cabinets and passage doors.
- **Paints:** Low or no VOC paints.
- **Furnishings:** Low or no VOC partitions and furniture.

Energy Efficiency and Alternative Energy

- **Solar electricity:** Using a utility grid-tied system, the building houses 14,500 square feet of photovoltaic panels on the roof structure generating 85 kWh/day. Surplus electricity is returned to the grid.
- **Daylighting:** The production area utilizes natural light through skylights to improve the interior luminous environment. Photo-controls adjust electric light levels in these spaces to optimize energy conservation.
- **Low energy cooling:** Natural ventilation and shading are used to eliminate the need for air conditioning in the building.
- **Glazing:** High performance insulated windows used to reduce heat gain.

- **Energy code:** Project exceeds California Title 24 by 40%.

Water Conservation and Reuse

- **Plumbing fixtures:** Automatic shut-off shower and faucet fixtures as well as waterless urinals that save 50,000 gallons/year.
- **Rainwater cisterns:** Two 30,000-gallon site-built masonry cisterns are used to store rainwater for landscape irrigation.

Construction Practices

- **Construction debris:** Recycling of construction and waste materials during building phase.

Building Operations

- **Wood waste:** Recycling of materials from manufacturing process.
- **Recycling:** Break room has recycling center for kitchen and office items.

References

1. The Sustainability Project. *Parade of Green Buildings* brochure. Santa Barbara, CA. October 2002.
2. Wood, Chris. "Ground Breaker." *Pro Sales*, January 2004, pp. 44-50.

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