

Going Green at the *Six Mile Cypress Slough Preserve*



Lee County
Parks and Recreation





LEED-Certified Buildings

Leadership in Energy and Environmental Design

- Lower operating costs and increased asset value
- Reduce waste sent to landfills
- Conserve energy and water
- Are healthier and safer for occupants
- Reduce harmful greenhouse gas emissions
- Qualify for tax rebates, zoning allowances and other incentives in hundreds of cities
- Demonstrate an owner's commitment to environmental stewardship and social responsibility



Criteria for Green Building

- Sustainable Site
- Materials and Resources
- Energy and Atmosphere
- Indoor Environmental Quality
- Water Efficiency



Sustainable Site

Our center is built on an old road bed and its “footprint” is relatively small.

The smallest amount of vegetation was removed and the construction crews were careful to work around the existing plants and trees.



Old road bed



GATES

Six Mile Cypress Interpretive Center

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Sustainable Site - Recycling During Construction



Metal, cardboard and concrete were separated out during the construction phase.



Materials and Resources - Marmoleum

Marmoleum Flooring is a natural version of linoleum containing:

- linseed oil
- Rosins and pine resins
- wood flour
- natural pigments
- Jute
- Installed with solvent-free adhesives



Materials and Resources – Bamboo Ceiling



Bamboo is:

- a rapidly renewable resource - grows back in just 3-5 years
- as strong as some hardwoods - harder than red oak and rock maple
- very versatile - used to make paper pulp, games, art, furniture, clothing



Materials and Resources: Hardi Board



- made of fibrous cement
- resists moisture and termites
- comes sealed, pre-primed and pre-painted
- mold and fungus resistant
- flame-resistant and will not melt after being exposed to a heat source



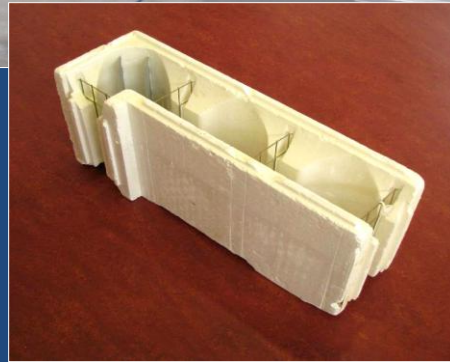
Materials and Resources: Trex



The decking was made from recycled plastic bags and wooden pallets.

It does make a difference when you recycle your plastic bags!

Energy and Atmosphere:



Insulated Concrete
Forms

The walls were constructed with Styrofoam forms reinforced with metal strips that were filled with concrete. This is called ICF (Insulated Concrete Forms.)

They are 9 inches thick, which provides an insulated barrier to the heat of the sun. They are very energy efficient.

Energy and Atmosphere:



Extra wide overhangs provide more shade from the sun.



Clerestory windows provide natural light.



Energy and Atmosphere:

Ride your bike to the preserve and your admittance is free



Indoor Environmental Quality

All the duct work was brought onto the site sealed and wrapped in saran wrap. The HVAC was not started until the work was completed. This helped to maintain a high indoor air quality by preventing any dust and debris from getting into the duct work.

This HVAC system does not contain any CFC based refrigerants.



Indoor Environmental Quality



Green Cleaning products are not only less harsh for the environment, but they are safer for the custodians who use them on a regular basis.

Water Efficiency



Rain water is collected from the roof of the Interpretive Center into a cistern below the building. The water is used to flush the toilets.



Water Efficiency - Native Planting

Native plants are not just water efficient, they provide habitat for wildlife as well.



FL Softshell turtle laying eggs in native grasses near the Center.



Thank you for doing your part
to help the Earth

