

## Lotus on Orange Avenue

Sarasota, Florida

Leader Design Studio | Sarasota, Florida



All photos: Ryan Gamma Photography

Photos of this house in isolation do not hint that it is sited on a heavily trafficked street. Nor is it immediately evident that beyond the passive design technique using large overhangs to shade west-facing glass, the house is Certified Net Zero, LEED Platinum and Florida Green Coalition Platinum. Designed for indoor-outdoor living, the house is a creation of concrete slabs and 45-degree angles, ponds and pools, and indoor gardens. Although the house appears horizontally stressed, there are visible vertical supports throughout that seem to secure the "floating" horizontal slabs.

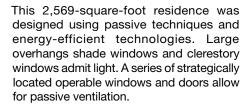






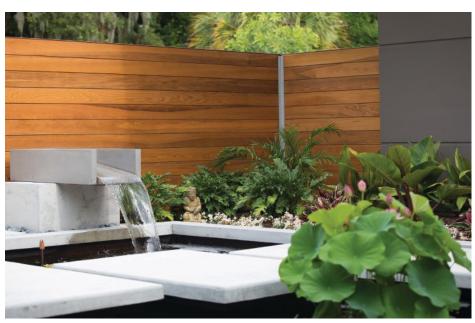






Two 16-foot sliding glass doors in the kitchen and living room open onto a covered porch. The L-shaped rear of the house wraps around a custom-designed screened outdoor room that contains a swimming pool, spa and gas fire pit. The master suite features a private courtyard, accessible only through the master bath.

The backbone of the house is a highperformance building envelope with insulated storefront windows, a reflective, cool roof and CMU block walls filled with



bio-based insulation combined with radiant barrier insulation.

Additionally, energy-efficient building systems integrated into the design include a photovoltaic system, electric car charging station, high-efficiency air-conditioning system, tankless gas hot water heating, LED lighting with occupancy sensors, low-flow plumbing fixtures and low VOC paints

With all the site considerations combined, including the plant palette, the design successfully integrates this house into the Florida climate. ■

Interiors: SAWA Design Studio, Contractor: Josh Wynne Construction, Structural Engineer: Sterling & Wilbur Engineering, Landscape Architect: Michael Gilkey Landscape Architects



