LEED for Homes Project Snapshot

Lloyd Construction Company

Las Abuelitas Housing
440 E. 26th Street
LEED Platinum

97% Expected Energy Savings Based on Energy Modeling
97% Construction Waste Diverted from Landfill

STRATEGIES AND RESULTS

The complex, built on a small urban infill site, is a model of sustainable design and efficiency. The complex features leading edge technologies such as a closed-loop glycol solar hot water system, state-of-the-art rainwater harvesting, and an advanced photovoltaic system. Several of the units qualify as “Net Zero”, meaning that they produce as much energy through renewable resources as they consume. Las Abuelitas also taps into the regional tradition of passive solar design courtyard housing. A network of secure outdoor walkways connects shaded private patios to outdoor community spaces such as a playground, a “Common Green”, a Community Garden, and a play court. This combination of environmental response strategies – old and new - gives the development an architectural expression unique to its time and place.

EXEMPLARY PERFORMANCE

- At the framed sections of the exterior walls, a sophisticated rainscreen wall system was used to further reduce solar heat gain.
- In addition to the LEED Platinum living units, the Las Abuelitas community building is the first Net-Zero certified building in Pima County. To attain this, the team increased the insulation levels in the walls and roofs to as high as R50.

Other Awards:
- 2014 State and Local Energy Report Residential Energy Award for New Construction
- 2014 Brian Mickelsen Housing Hero award for Exemplary Urban Multifamily Project
- 2014 Tucson Electric Power BrightEE Award - Non-Profit Category

PROJECT BASICS

Project Type: Multifamily Housing
Conditioned Space: 13,116 s.f.
Apartments: 12
Buildings: 5
Lot Type: Urban
Construction Type: Masonry and Frame

KEYS TO SUCCESS

Roof Insulation: 43
Wall Insulation: 24
Windows: U 0.3 / SHGC 0.21
Heat Pump: SEER 15 / HSPF 8.0
Landscaping: Drought Tolerant
Irrigation: High Efficiency
Plumbing Fixtures: High Efficiency

THE LEED FOR HOMES DIFFERENCE

Construction Waste Management Plan: YES!
On-Site Performance Tests: YES!
Custom Durability Planning Checklist: YES!
Third-Party Verified Documentation: YES!

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About the Project Team
Owner: Primavera Foundation
Architect: Poster Frost Mirto
Contractor: Lloyd Construction Co.

LEED for Homes Provider
Pima County Development Services

LEED for Homes Green Rater
Amy Patze/Daran Wastchak

About LEED for Homes
LEED for Homes is a voluntary, third-party certification program developed by residential experts and experienced builders. LEED promotes the design and construction of high-performance green homes, and encourages the adoption of sustainable practices through the building industry.

www.usgbc.org/homes

*Out of 136 possible points

Photo courtesy of: *Charles Pifer – Poster Frost Mirto