

LEED Profile

Kennedy Elementary School

Achievements

- 19%** reduction in energy consumption
- 38%** reduction in water use
- 29%** recycled content of materials
- 37%** use of local/regional materials
- 78%** construction waste diverted from landfill



Project Description

Kennedy Elementary School is a new campus built on the grounds of the former Allen Elementary School in Houston's Independence Heights neighborhood. This 87,340-square-foot facility is built to accommodate 750 students from pre-K through fifth grade. The layout of the academic pods radiate from the media center. Each pod contains classrooms, teacher workroom, restrooms plus a commons area for small group activities. In addition to 36 classrooms, there are specialty rooms for art, science and computer. Separate from the quieter academic areas are the active dining/multi-purpose with stage, adjacent music room and administrative suite. The school was designed to achieve LEED Silver.



Sustainable Overview

- Two-story design to allow increased open space and natural water percolation to reduce runoff
- Stormwater control improved with bio-swales and debris interceptors
- Light-colored roofing and paving utilized to reduce the "heat island" effect



Water Efficiency

- Low flow plumbing fixtures with automatic flush valves.
- Water efficient drip irrigation system and native drought resistant planting.



Energy & Atmosphere

- Enhanced commissioning of building energy systems performed to ensure peak efficiency
- Energy modeling for 19% savings over ASRAE 90.1 baseline
- All mechanical equipment has been selected to operate with non-CFC based refrigerants
- All mechanical are automatically monitored and controlled ensuring comfort and energy efficiency
- Energy analysis predicts a 19% energy savings over the LEED model standard



Materials & Resources

- Exterior finishes include brick, EIFS and prefinished metal for high durability over the life of the building
- Regional materials utilized and over 75% construction waste recycled
- Cementitious roof decking serves as a structural deck, finish ceiling and acoustical control
- Terrazzo floors at first floor corridors for low life-cycle maintenance cost



Indoor Environmental Quality

- Indoor air quality management plan implemented during construction and tested prior to occupancy
- No or low VOCs utilized in paints, sealants, adhesives
- All classrooms and offices have windows for natural light and views to the exterior
- High acoustical performance between classrooms with sound attenuation batts and high NRC ceilings



Innovation and Design

- HISD has implemented a program utilizing green cleaning products and equipment
- The design team created a curriculum which uses the School as a Teaching Tool

LEED® Facts

LEED for Schools (v2007)

Seeking Silver 37*

Sustainable Sites	7
Water Efficiency	3
Energy & Atmosphere	5
Materials & Resources	7
Indoor Environmental Quality	12
Innovation & Design	3

* Out of a possible 78 points

Project Information

Owner: Houston Independent School District (HISD)

Address: 400 Victoria Drive, Houston, TX 77022

Architect: Matrix Spencer Architects
Civil Engineer: Gooden Consulting Engineers, Inc.

MEP Engineer: Holste & Assoc, Inc
LEED Commissioning Agent: BB Commissioning

Contractor: Comex Corporation

Project Size: 87,340 SF

Project Budget: \$16,881,332

Opened: January 2012

About LEED

The LEED Green Building Rating System is the national benchmark for the design, construction, and operations of high-performance green buildings. Visit the U.S. Green Building Council's Web site at www.usgbc.org to learn more about how you can make LEED work for you.