

# LEED Profile

## Almeda Elementary School

### Achievements

**18%** reduction in energy consumption

**42%** reduction in water use

**13%** use of local/regional materials

**87%** construction waste diverted from landfill



### Project Description

Almeda Elementary School is an 86,000-square-foot school, serving students from pre-kindergarten through the fifth grade. The new school is positioned on a rural site of 8.282 acres, which is bounded on four sides by single-family homes. The exterior of the building consists of brick, metal panels, and split-face concrete block. Interior materials were selected using building products that are available within a 500 mile radius of the site, rather than materials that require longer distance shipping. The building has been sited to allow a high percentage of spaces to have views and receive natural light. The new school is more environmentally responsible, more healthful for occupants, and more economical to operate.



### Sustainable Overview

- Daylight at entry and classrooms, recycled content and high-efficiency windows
- 18% reduction in energy consumption
- Recycling collection area



### Water Efficiency

- Low water consumption water closets, urinals and low-flow reduce water use by 42% versus industry standard plumbing fixtures
- Highly efficient landscape irrigation equipment reduces water use for plants by 69.6%
- Plant materials are native to Gulf Coast, with low water requirements and rapid growth
- Turf irrigation limited to most critical and visible areas
- Perimeter trees on large open play turf areas use efficient bubblers for irrigation
- Hardwood mulch for ground cover area allows for preservation of established trees



### Energy & Atmosphere

- 9-foot high classroom ceilings reduce noise reverberation
- 100% of the ceiling tile in the classrooms have a minimum Noise Reduction Coefficient of 0.70



### Materials & Resources

- Low-sloped roof with a minimum SRI of 78 installed at a minimum of 75% of the roof surface to reduce the heat island effect.



### Indoor Environmental Quality

- Building finishes include low Volatile Organic Compounds (VOC) paints, gypsum board, and carpet - CRI Green Label Plus Carpet

### LEED® Facts

Leed for Schools (v2007)

**Certified 30\***

Sustainable Sites	6
Water Efficiency	4
Energy & Atmosphere	4
Materials & Resources	3
Indoor Environmental Quality	10
Innovation & Design	3

\* Out of a possible 78 points

### Project Information

**Owner:** Houston Independent School District (HISD)

**Address:** 14226 Almeda School Road, Houston, TX 77047

**Architect:** Architechnics/3, Inc.

**Civil Engineer:** ESPA Corp.

**MEP Engineer:** DBR Engineering Consultants, Inc.

**Structural Engineer:** Ingenuim, Inc.

**Commissioning Agent:** Wylie Associates

**Contractor:** Satterfield and Pontikes Construction, Inc.

**Project Size:** 86,073 SF

**Project Budget:** \$18,295,533

**Opened:** June 2011

### 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](http://www.usgbc.org) to learn more about how you can make LEED work for you.