

LEED® for Schools (Submittal)

- 17.7% Reduction in Energy Consumption
- 37% Reduction in Water Use
- 41% Recycled Content of Materials
- 50% Use of Local/Regional Materials
- 82% Construction Waste Diverted from Landfill



Houston Independent School District Helen C. DeChaumes Elementary School

PROJECT HIGHLIGHTS

DeChaumes Elementary School replacement is located on an 8.8 acre tract in north Houston. The site is in a residential neighborhood with some light commercial businesses close by. Temporary classrooms were moved onto the campus north of the original school before the new school was constructed. The HISD Bond Program required a LEED® “Certified” rating for DeChaumes ES. Through careful project planning, the team has been able to target points for a Silver rating with no appreciable increase in cost.

By carefully considering LEED® guidelines, the designers were able to target LEED® points beyond the Certified level. These features will assist the district in achieving resource savings over the life of the school.

SUSTAINABLE OVERVIEW

- The design of the new building incorporates key elements of LEED® design:
 - Optimum natural light efficient.
 - Building orientation for reduction of solar heat gain.
 - Improved indoor air quality.
 - Low water demand landscaping.

WATER EFFICIENCY

- 50% reduction in landscape irrigation usage by design.
- 35% reduction in indoor water usage from efficient fixtures.

ENERGY & ATMOSPHERE

- A 20% savings in energy usage is targeted compared to a conventionally constructed facility.

MATERIALS & RESOURCES

- A minimum of 10% content for recycled or regional materials.

INNOVATION AND DESIGN

- A minimum of 50% reduction in recycled or salvaged construction waste.



Photography courtesy of Conrad Lozano

LEED® Facts

LEED® for Schools 2007
(Certification Pending)

Seeking Silver	40*
Sustainable Sites	11
Water Efficiency	3
Energy & Atmosphere	4
Materials & Resources	3
Indoor Environmental Quality	15
Innovation and Design	4

* Out of a possible 79 points

ABOUT HOUSTON INDEPENDENT SCHOOL DISTRICT

The Houston Independent School District is the largest public school system in Texas and the seventh-largest in the United States. Its schools are dedicated to giving every student the best possible education through an intensive core curriculum and challenging specialized instructional and career programs. HISD is working hard to be Houstonians' K–12 school system of choice, by constantly improving instruction and management for these to be effective, productive, and economical.

The district desires to provide a healthy school environment that can be utilized by students, parents, faculty, and staff. HISD has mandated adherence to the LEED® for Schools “certified” rating level for all new school construction.

- Owner:** Houston Independent School District (HISD)
- Architect:** ArcTec Associates Inc.
- Civil Engineer:** REKHA Engineering
- MEP Engineer:** Hirsch Engineers
- Structural Engineer:** Conti Jumper Gardner and Associates
- Commissioning Agent:** Rice and Gardner Consultants, Inc.
- LEED Consultant:** Green Building Services
- Contractor:** Durotech, LLC.
- Project Size:** 86,165 SF
- Total Project Cost:** \$12,452,432.60
- Cost PSF:** \$144.52
- Opened:** August 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 to learn more about how you can make LEED® work for you.