



**ARMSTRONG WORLD INDUSTRIES  
CORPORATE HEADQUARTERS  
LANCASTER, PENNSYLVANIA**

**2** million kWh of wind power purchased each year

**3** year return on investment for green features

**65** tons of material being recycled annually

**LEED® Facts**

Armstrong World Industries  
Corporate Headquarters  
Lancaster, PA

LEED for Existing Buildings  
Certification awarded April 25, 2007

**Platinum 64\***

Sustainable Sites 7/14

Water Efficiency 5/5

Energy & Atmosphere 15/23

Materials & Resources 15/16

Indoor Environmental  
Quality 17/22

Innovation & Design 5/5

\*Out of a possible 85 points

## ARMSTRONG WORLD INDUSTRIES CORPORATE HEADQUARTERS, BUILDING 701

## New Tricks for an Existing Building

Armstrong Earns a Platinum Rating for its 1998 Headquarters

## PROJECT BACKGROUND

Armstrong World Industries' corporate headquarters, also known as Building 701, is located on a 700-acre campus in Lancaster, Pennsylvania. The three-story, 126,000-square-foot building houses 225 employees. Originally constructed in 1998, the glass and steel building consists of two wings connected by a daylit atrium. In 2006 the project earned an Energy Star label from the U.S. Environmental Protection Agency, and in 2007 it earned a Platinum rating in the U.S. Green Building Council's LEED for Existing Buildings Rating System.

## SAVING WATER

One of the goals for the LEED certification process was to dramatically reduce the building's use of water. As a result, the project team installed waterless urinals, dual-flush toilets, and water sensors for the faucets. The team also discovered a malfunction in the humidification process that was wasting more than 28,000 gallons of water each year. In all, the project team nearly halved the building's use of potable water, reducing annual use from 800,000 to 420,000 gallons.

## STRATEGIES AND RESULTS

As the country's largest manufacturer of acoustical ceiling systems, Armstrong set a precedent by earning the first LEED innovation credit for superior acoustic design, which improves occupant well being, comfort, and performance. Armstrong achieved this credit by selecting ceiling panels and furniture systems for sound absorption. Armstrong's ceiling panels are also manufactured locally and include a high percentage of recycled content.

The building's narrow floorplate combined with both interior and exterior lightshelves allow daylight to reach more than half of the building's regularly occupied spaces, and occupancy sensors ensure that electric lighting is used only when rooms are occupied. The LEED certification was aided by the double-paned, argon-filled, low-emissivity glazing that covers 80% of the building's exterior. A campus-wide building automation system optimizes energy use and provides continuous feedback on the building's performance. Armstrong purchases two million kilowatt-hours of wind power each year, enough to provide 75% of the project's electricity use.

Building 701 is landscaped with plants that require little maintenance and no irrigation, and a catch basin slows the rate at which stormwater is released into the adjoining wetlands.

Armstrong invested \$138,000 on the strategies it implemented while pursuing LEED. Thanks largely to energy savings resulting from the process, however, the company believes it will recoup its investment within three years.

## ABOUT ARMSTRONG WORLD INDUSTRIES

Armstrong World Industries is a global leader in the design and manufacture of floors, ceilings, and cabinets. In 2006, Armstrong's consolidated net sales totaled approximately \$3.4 billion. Based in Lancaster, Pennsylvania, Armstrong operates 39 plants in 10 countries and has approximately 13,000 employees worldwide.

"LEED for Existing Buildings is about accountability and measurement of real performance. It's about turning over stones and actually taking a good close look at how your building is operating. And by looking you'll almost certainly discover something that can be improved."

William Craig, RE:Vision Architecture



**Research, project management, and general assistance:** RE:Vision Architecture  
**MEP Engineer, Structural Engineer, and Commissioning Agent:** Bala Consulting Engineers, Inc  
**HVAC and service providers:** Johnson Controls  
**Green cleaning custodial program:** ONESOURCE  
**Wind power provider:** Community Energy  
**Civil Engineer:** David Miller Associates  
**Architect:** Gensler  
**Project Size:** 126,000 square feet

**Photograph Courtesy of:** Armstrong World Industries

## 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 LEED and green building.



[www.usgbc.org](http://www.usgbc.org)  
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