



# Republic

TECHNICAL  
BULLETIN

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TB-06-01

DATE: June 10, 2006

**SUBJECT: The Leadership in Energy & Environmental Design (LEED) & Sustainable Design**

Commercial buildings in the U.S. account for one-third of our total energy, two-thirds of our electricity and one-eighth of our water. In an effort to focus on these environmental issues - architects, engineers, contractors, developers and construction experts are taking a leadership role in the emerging discipline of sustainable design.

**What is sustainable design?**

Sustainable design encompasses the design, construction, operation, renovation, and eventual replacement of a building. The benchmark for sustainable design in the United States is the Leadership in Energy and Environmental Design (LEED) rating system developed by the U.S. Green Building Council (USGBC). In the system, buildings become LEED certified by earning credits from the following categories: sustainable sites, water efficiency, energy and atmosphere, materials and resources, and indoor environmental quality. Only buildings can become LEED certified not products.

**Republic's LEED credits?**

Approximately 33% of each 200 to 250 tons of material heat melted for cold rolled and galvanealed steel used to manufacture Republic doors and frames contains recycled material in the form of scrap.

Approximately 55 to 60% of this scrap is from clean Post-Consumer products such as automobiles, aluminum cans, appliances, domestic and office equipment, containers and metal construction products.

The balance or approximately 40% of the scrap is from post-industrial products such as tube/pipe scrap, machine tailings, industrial containers, cylinders, coil ends, side trim and industrial building scrap. The scrap in steel is used to capture the iron content. It replaces the need to generate iron from blast furnace or to purchase iron in pellets.

The maximum amount of LEED credits should be available for Republic commercial steel doors and frames under sections 4.1 and 4.2 (Materials & Resources Credit 4: Recycled Content).

Republic is continually looking for ways to help our distributors through product developments and service improvements. If you have any questions please feel free to contact me directly at 731-352-1927.

Sincerely,

Jason W. Lisewski  
Director, Product Engineering & Development

**Republic**  
...The Best Door In The Industry