

## LEED™ Certificate

### Series 100 Aluminum Column Cover

#### RECYCLED CONTENT

According to the Aluminum Association, a survey of aluminum producers in mid-2008 indicated that the total recycled content of domestically produced, flat rolled products for the Building and Construction market was approximately 85%. The survey of the producers also indicated that on average ~60% of the total product content is from post-consumer sources.

The specific recycled amount in the sheet aluminum we supply for the Series 100 Column Cover is indeterminate on the bases that we buy from many suppliers. An assumption is then made that on average our aluminum sheet will have a high recycled content.

The post system of the Series 100 Column Cover is made from Galvannealed steel. The percentage of recycled material used in the scrap charge is on average is approximately 82-84%. Of this amount, approximately 56-63% of the recycled material is post-consumer with the remainder being post-industrial.

The finished product may be manufactured in one of two locations whichever are closest to our customer, Riverdale Maryland and Phoenix Arizona.

#### RECYCLABILITY

Not only does the steel and aluminum used in our Series 100 Column Cover contain a high percentage of both post-consumer and post-industrial recycled content, at the end of its long, useful life in your building application it is 100% recyclable. Both components can be repeatedly recycled back into similar products with no loss of quality. Steel and aluminum in its various forms provides the most valuable component for most municipal recycling efforts.

In addition, the reduction in pollution made from recycling can be significant.

- For aluminum, there is a 79 % material conservation, a 95 % reduction in emissions and a 97 % reduction of effluents through recycling.
- For steel, one sees a 90% savings in virgin materials, an 86% emissions reduction, a 40% effluent reduction, a 76% water pollution reduction and a 97% mining waste reduction through recycling.

To produce aluminum from recycled material requires only ~5% of the energy required to produce aluminum from bauxite ore, and every ton of recycled aluminum saves 4 tons of bauxite. Additionally, using recycled aluminum instead of raw materials reduces air pollution generation such as CO<sub>2</sub>, SO<sub>x</sub>, and NO<sub>x</sub> by 95% and water pollution by 97%.

Information within this certificate was extracted from The Aluminum Association LEED™ Fact Sheet on Aluminum Sheet & Plate for the Building & Construction Market [www.aluminum.org](http://www.aluminum.org) and The Materials Research Society [www.mrs.org](http://www.mrs.org)