

LEED™ Certificate

Series 9000 e3 Environmental Ceramicsteel 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 9000 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 steel core is made up of a minimum of 30% post-consumer and post-industrial material.

The extrusions that make up the support post system of the series 9000 Column Cover contain 30% Primary aluminum and 70% Secondary aluminum. The secondary aluminum consists of 10% Post-consumer scrap 60% Post-industrial/Pre-consumer scrap.

Under the guidelines of the USGBC – LEED V2.2, the total recycled content of the extruded aluminum post system of the Series 9000 Column Cover is $.30 \times 0 + .70 (.10 + \frac{1}{2} \times .60) = 28.0\%$.

The finished product may be manufactured in one of two locations whichever are closest to our customer, Riverdale Maryland and Phoenix Arizona. The material is extruded in Canfield, Ohio. The raw materials that make up this extrusion are #6063 Aluminum alloys, originating in New Madrid, Missouri.

RECYCLABILITY

Not only does the aluminum used in our Series 9000 Column Cover contain a high percentage average 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. The aluminum components can be repeatedly recycled back into similar products with no loss of quality, and aluminum in its various forms provides the most valuable component for most municipal recycling efforts.

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 CO₂, SO_x, and NO_x by 95% and water pollution by 97%.

The e3 *environmental Ceramicsteel* surface applied to the Series 9000 Column Cover is 99% recyclable and no Volatile Organic Compounds (VOCs) are emitted within its making.

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 and www.polyvision.com