

LEED™ Certificate For Softforms Aluminum Extrusions

RECYCLED CONTENT

The aluminum that makes up the total content of our Softforms Drywall and Plaster extrusions consist of 30% Primary aluminum billets and 70% Secondary aluminum billets. The Secondary aluminum billets are produced using 10% Post-consumer scrap and 60% Post-industrial or Pre-consumer scrap

Under the guidelines of the USGBC – LEED V2.2, the total recycled content of the extruded aluminum Perimeter Trims is 28%.

$$.30 \times 0 + .70 (.10 + \frac{1}{2} \times .60) = 28.0\%$$

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 Softforms extrusions contain a good 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. 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%.

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

LEED™ Certificate For Perimeter Trim Extrusions

RECYCLED CONTENT

The aluminum that makes up our Perimeter Trim extrusions consist of 12% Post-consumer scrap, 73% Post-industrial scrap and 15% Primary or Virgin aluminum.

Under the guidelines of the USGBC – LEED V2.2, the total recycled content of the aluminum is 48.5%

$$(12.0\% \times 0 + \frac{1}{2} 73\%) = 48.5\%$$

The raw material is extruded in Wellsville, Pennsylvania 17365. The final product is manufactured in Riverdale, Maryland 20737.

RECYCLABILITY

Not only does the aluminum used in our Perimeter Trim extrusions contain a good 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. 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%.

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LEED™ Certificate

Series 1500 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 1500 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 extrusions that make up the support post system of the series 1500 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 1500 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 1500 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%.

LEED™ Certificate

Series 1500 Stainless Steel Column Cover

RECYCLED CONTENT

The sheet stainless steel used to produce the Series 1500 Column Cover contains the following:

For Type 304 stainless steel, the percentage of recycled material used in the scrap charge is on average approximately 82-84%. Of this amount, approximately 56-63% of the recycled material is post-consumer with the remainder being post-industrial.

For Type 316 stainless steel, the percentage of recycled material used in the scrap charge is on average approximately 86%. Of this amount, approximately 54% of the recycled material is post-consumer with the remainder being post-industrial.

The extrusions that make up the support post system of the series 1500 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 1500 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 aluminum for the post system 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 stainless steel and aluminum used in our Series 1500 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. The aluminum and stainless steel components can be repeatedly recycled back into similar products with no loss of quality. Both stainless 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.

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 The Materials Research Society www.mrs.org

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 CO₂, SO_x, and NO_x 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 and The Materials Research Society www.mrs.org

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.

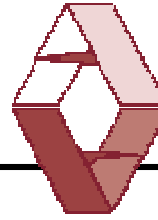
RECYCLABILITY

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



August 4, 2009

Re: **Expansion Joint Covers/LEED® credits**

This letter is to certify that based on our current vendors and fabrication Architectural Art qualifies for LEED Points in two areas, recycled material and regional materials:

- The **extruded aluminum** product provided on the above job contains 0% of post consumer recycled content and contains product in excess of approximately 30% of post industrial recycled content.
- The **extruded vinyl/Santoprene** component provided on this job contains 0% of post consumer recycled content and may contain up to 50% post industrial recycled content depending on the color chosen.
- **JointCrete® A and B Epoxy** is a three component flexible material that is formed in the field. **JointCrete** is pre-proportioned granular rubber based filler used with a 100% solids modified epoxy binder to produce a mixture of uniform shore hardness that flexes under impact or loading.
- **JointCrete® C component** is 100% post consumer recycled material.
- **JointCrete®** helps the environment by eliminating the need for landfill space through the use of ground up vehicle tires as its rubber component. This also constitutes LEED green building initiatives by using post consumer recycled material.

Points System

- **Recycled Content** 5% (1 point), Recycled Content 10% (2 point)
- **Regional Materials** 10% (1 point), Regional Content 20% (1 point)