

CENTRIA Product Data Sheet
for the LEED Green Building Rating System
New Construction & Major Renovations (LEED-NC)
Version 2.2, October 2005

The following information is provided to assist the LEED project team in determining how the CENTRIA product referenced below can contribute toward earning specific LEED credits. For information not included within the scope of this data sheet, please contact CENTRIA.

www.CENTRIA.com

<http://greenworld.centria.com>

VERSAWALL[®] WALL PANELS

Energy & Atmosphere

17 Points

EA Credit 1

Optimize Energy Performance

1-10 Points

Versawall Wall Panels have been independently tested for thermal transmittance in accordance with ASTM C 1363, and can contribute significantly to EA Credit 1 by providing a verifiable insulation value that meets or exceeds the baseline values prescribed in ASHRAE/IESNA Standard 90.1-2004. Test reports are available upon request. The following table indicates specific thermal performance values for each panel thickness:

| PANEL THICKNESS | U-VALUE (WITH AIR FILMS ON EACH SIDE OF PANEL) | R-VALUE (WITH AIR FILMS ON EACH SIDE OF PANEL) |
|------------------------|---|---|
| 2 INCH | 0.069 | 14.41 |
| 2-3/4 INCH | 0.049 | 20.24 |
| 4 INCH | * | * |

* Value pending the completion of thermal tests; for the most current information regarding values, contact CENTRIA

- MR Credit 4.1 **Recycled Content: 10%** 1 Point
- MR Credit 4.2 **Recycled Content: 20%** 1 Point

Versawall Wall Panels contain recycled content quantified as a percentage of the total weight of the panel. The recycled content values have been calculated in accordance with the procedure detailed in MR Credits 4.1 and 4.2. The following table indicates specific recycled content values for selected panels:

| PANEL THICKNESS | PANEL MODULE | FACE PANEL GAGE | LINER PANEL GAGE | PERCENT OF RECYCLED CONTENT BY WEIGHT | | |
|-----------------|--------------|-----------------|------------------|---------------------------------------|--------------|--------|
| | | | | POST-CONSUMER | PRE-CONSUMER | TOTAL |
| 2" | 30" | 26 | 26 | 18.3 % | 5.0 % | 23.3 % |
| 2" | 36" | 26 | 26 | 18.7 % | 5.1 % | 23.8 % |
| 2-3/4" | 30" | 26 | 26 | 16.9 % | 4.6 % | 21.5 % |
| 2-3/4" | 36" | 26 | 26 | 17.4 % | 4.7 % | 22.1 % |
| 4" | 30" | 26 | 26 | 15.0 % | 4.1 % | 19.1 % |
| 4" | 36" | 26 | 26 | 15.5 % | 4.2 % | 19.7 % |

NOTE: To obtain values for those panels not included in the table above, contact CENTRIA

- MR Credit 5.1 **Regional Materials: 10%** 1 Point
- MR Credit 5.2 **Regional Materials: 20%** 1 Point

Versawall is an engineered insulated composite panel comprised of a variety of components such as galvanized steel, coatings, foam insulation, and sealants. Although the finished panels are manufactured at CENTRIA's facility in Sheridan, Arkansas, the panel components are made from a variety of raw materials and fabricated in a variety of locations. Given the complexity of such a multi-component system, it is not possible to accurately verify and document a primary location of material extraction or processing. Therefore, CENTRIA suggests that Versawall not be included in the calculations for these credits.

Indoor Environmental Quality

15 Points

EQ Credit 4.1 **Low-Emitting Materials: Adhesives and Sealants** 1 Point

This credit requires that the VOC content of all adhesives and sealants must be less than the limits established by the South Coast Air Quality Management District, Rule #1168. The factory-applied sealant (Tremco JS-773) used in the sidejoint of Versawall Wall Panels has a VOC content of 180 grams/liter, which is less than the maximum limit of 250 grams/liter established by this regulation for architectural sealants. Therefore, the Tremco JS-773 sealant meets the requirements of EQ Credit 4.1.

EQ Credit 4.2 **Low-Emitting Materials: Paints and Coatings** 1 Point

All coatings used on either side of CENTRIA's Versawall Wall Panels are applied directly to the metal sheet prior to forming of the panel, and as a result, no VOCs are generated at the jobsite from field-painting operations.

Innovation & Design Process

5 Points

ID Credit 1.x **Innovation in Design: Cradle to Cradle Certification** 1 Point

In early 2007, the U.S. Green Building Council established an ID Credit point for the use of products certified under the Cradle to Cradle Certification Program. This program, administered by MBDC (McDonough Braungart Design Chemistry), evaluates products and their manufacturing process on the basis of human/environmental impact, material reutilization, energy and water use, and social responsibility. A product that meets the certification criteria is designated as either a Silver, Gold, or Platinum level product and labeled as "Cradle to Cradle Certified". CENTRIA's Versawall Wall Panels are Cradle to Cradle Silver Certified.

For additional information regarding the use of Cradle to Cradle Certified products in the LEED certification process, consult the U.S. Green Building Council (www.usgbc.org) and MBDC (www.mbdc.com).

Potential for Other Credits

The use of Versawall Wall Panels may contribute to other LEED Credits through the use of integrated Formavue window systems (EQ Credits 8.1 and 8.2, Daylight and Views), and integrated sunshades (EA Credit 1, Optimize Energy Performance).

(REVISED: November 2007)