

CertainTeed Gypsum Sustainable Materials Data Sheet

Date: April 4, 2013

Subject: CertainTeed AirRenew®, AirRenew Type X, AirRenew Extreme Abuse, and AirRenew Extreme Impact Gypsum Board Data Sheet for LEED® Green Building Rating Systems, National Green Building Standard™ (NGBS) ICC 700-2012 and International Green Construction Code (IgCC)

CertainTeed Gypsum certifies and provides the following information for use in achieving LEED Credit, National Green Building Standard Credit, and meeting the International Green Construction Code for the specification of CertainTeed AirRenew, AirRenew Type X, AirRenew Extreme Abuse, and AirRenew Extreme Impact Gypsum Board products.

LEED MR Credit 4: Recycled Content
NGBS 604.1: Recycled Content
IgCC 505.2.2: Recycled Content Building Materials

CertainTeed AirRenew Gypsum Board products contain the following recycled content. Percentages are averages by weight. The recycled content figures do not include production trim and scrap, which are reused in the manufacturing process.

| Manufacturing Location | Total Recycled Content, % | Post-Consumer Recycled Content, % | Pre-Consumer Recycled Content, % |
|-------------------------------|----------------------------------|--|---|
| Moundsville, WV, USA | 95 | 2 | 93 |

LEED MR Credit 5: Regional Materials
NGBS 609.1: Regional Materials
IgCC 505.2.5: Indigenous Materials

CertainTeed AirRenew Gypsum Board products are manufactured at the CertainTeed facility in Moundsville, WV. Credit may be given if the project location is within a 500 mile (800 km) radius; or 1,500 mile (2,400 km) radius for rail shipment for LEED Canada projects; or up to 2,000 mile (3,200 km) radius for rail shipment for IgCC projects, of the manufacturing facility and the gypsum raw material extraction location.

| Manufacturing Location: <u>City, State/Province Zip/Postal Code</u> | Extraction Location: <u>City, State/Province Zip/Postal Code</u> | Paper Location: <u>City, State/Province</u> |
|--|---|--|
| Moundsville, WV, USA 26041 | Moundsville, WV, USA 26041 | Austell, GA, USA |

LEED MR Credit 6: Rapidly Renewable Materials
NGBS 606: Renewable Materials

CertainTeed AirRenew Gypsum Board products contain approximately 1% starch by weight and starch is a rapidly renewable material.

LEED IEQ Credit 3.2: Construction Indoor Air Quality Management Plan – Before Occupancy
NGBS 902: Pollutant Control
IgCC 806: Material Emissions and Pollutant Control

CertainTeed AirRenew Gypsum Board products capture and permanently remove formaldehyde and other aldehydes present in the indoor environment. Testing conducted per ISO 16000-23, “Indoor Air – Performance test for evaluating the reduction of formaldehyde concentrations by sorptive building materials”. UL Environment has validated that AirRenew gypsum board products have a measured permanent formaldehyde absorption capacity of 0.4 g/m².

LEED IEQ Credit 4: Low-Emitting Materials
NGBS 901: Pollutant Source Control
IgCC 806.5: Material Emissions and Pollutant Control - Wall Systems

CertainTeed AirRenew Gypsum Board products are GREENGUARD Indoor Air Quality® and GREENGUARD Children & SchoolsSM Certified and meet the testing and product requirements of the California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda and CDPH/EHLB/Standard Method V.1.1.

LEED for Schools IEQ Credit 10: Mold Prevention
NGBS 903.4: Moisture Control Measures (mold resistant materials)

CertainTeed AirRenew Gypsum Board products are mold resistant in accordance with ASTM D 3273 and ASTM G 21 test methods.

LEED ID Credit 1: Innovation in Design

CertainTeed AirRenew Gypsum Board products innovative technology provides a significant and measurable performance design strategy for reducing the formaldehyde concentration in the indoor environment.

Note: The environmental claims of representative samples of these products have been validated by UL Environment. LEED Credit, NGBS and IgCC section references are suggested applications of CertainTeed AirRenew, AirRenew Type X, AirRenew Extreme Abuse, and AirRenew Extreme Impact Gypsum Board products to the LEED Green Building Rating Systems, National Green Building Standard and the International Green Construction Code (IgCC). Determinations of product attributes for Certification of a building project are the responsibility of the LEED or National Green Building Standard Applicant.

Marketing Technical Services



CertainTeed Corporation Professional: 800.233.8990
P.O. Box 860 Consumer: 800.782.8777
Valley Forge, PA 19482 Online: www.certainteed.com/gypsum

CertainTeed
SAINT-GOBAIN