

## Understanding the role of CertainTeed Gypsum in meeting Green Building Standards

CertainTeed Gypsum operates its manufacturing facilities with a responsible and environmentally conscious ethic that includes reclamation, preservation of natural resources, recycling and waste management.

All of the face and back paper used on our gypsum board products is made from 100% post-consumer recycled paper, and several CertainTeed Gypsum plants use synthetic gypsum, a raw material derived from flue gas scrubbing at coal-fired power plants. When combined with the recycled paper, this yields a total recycled content of up to 99% for ProRoc® gypsum board. Other plants have implemented programs that incorporate approximately 20% post-consumer gypsum board construction waste into production along with natural gypsum.

Gypsum board product innovation is also carried out with a focus on environmental responsibility; research and development emphasize minimizing environmental impacts to the greatest extent possible.

### green facts:

- > CertainTeed Gypsum is committed to resource conservation:
  - The face and back paper used for our gypsum board consists of 100% recycled paper.
  - Synthetic gypsum, derived as a by-product of the desulphurization of flue gases at coal-fired power plants, is used at plants where sources are available.
  - The total recycled content is 99% for CertainTeed Gypsum wallboard products using synthetic gypsum.
  - Several of our other plants are incorporating approximately 20% post-consumer gypsum board construction waste into their production processes. In addition, in-plant scrap is recycled back into the process.
  - Gypsum products contain approximately 1% starch by weight; starch is a rapidly renewable material.
- > Our gypsum board, finishing compound, and joint tape manufacturing locations can provide regional material coverage throughout North America.
- > Although green building rating systems do not currently address emissions for all building materials and their effects on indoor air quality, finished CertainTeed gypsum board products have very low reportable VOCs and will not affect indoor air quality.
- > ProRoc® Moisture and Mold Resistant Gypsum Board with M2Tech™ is specially formulated for applications where enhanced moisture and mold resistance is preferred.
- > GlasRoc® Sheathing and Tile Backer are paperless moisture and mold resistant products.

#### CERTAINTEED GYPSUM PLANT LOCATIONS:

Calgary, AB • Nashville, AR • Vancouver, BC • Napa, CA • Jacksonville, FL • Fort Dodge, IA • Junction City, KS • Carrollton, KY • Winnipeg, MB  
Las Vegas, NV • McAdam, NB • Oakville, ON • Toronto, ON • Montreal, QC • Seattle, WA • Kent, WA • Moundsville, WV • Cody, WY

## CERTAINTEED GYPSUM PRODUCT CONTRIBUTIONS

### LEED-NC CREDITS\*\*\*

#### Materials & Resources

#### POSSIBLE POINTS

**Construction Waste Management (credit 2.1):** Recycle and/or salvage at least 50% of non-hazardous construction and demolition debris.

1

**Construction Waste Management (credit 2.2):** Recycle and/or salvage at least 75% of non-hazardous construction and demolition debris.

1

**Recycled Content 10% (credit 4.1):** Use materials with recycled content such that the sum of post-consumer recycle content plus one-half of the pre-consumer content constitutes at least 10% (based on cost) of the total value of the materials in the project.

1

**Recycled Content 20% (credit 4.2):** Use materials with recycled content such that the sum of post-consumer recycle content plus one-half of the pre-consumer content constitutes an additional 10% beyond MR Credit 4.1 (total of 20%, based on cost) of the total value of the materials in the project.

1

**Regional Materials 10% (credit 5.1):** Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site (1500 miles [2400 km] for rail shipments to Canadian projects) for a minimum of 10% (based on cost) of the total materials value.

1

**Regional Materials 20% (credit 5.2):** Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site (1500 miles [2400 km] for rail shipments to Canadian projects) for an additional 10% beyond MR Credit 5.1 (total of 20%, based on cost) of the total materials value.

1

\*\*\*Based on LEED-NC Version 2.2

### LEED-H CREDITS\*\*

#### Materials & Resources

#### POSSIBLE POINTS

**Environmentally Preferable Products (credit 2.2/Environmentally Preferable Materials):** Use products that are environmentally preferable.

0.5

**Environmentally Preferable Products (credit 2.2/Environmentally Preferable Materials—Local):** Use products that are extracted, processed and manufactured within 500 miles of home.

0.5

\*\*Based on LEED-H January 2008

### NAHB CREDITS\*

#### Resource Efficiency

#### POSSIBLE POINTS

**604.1 (2.4.1):** Use recycled-content building materials for two minor and/or two major components of the building with a recycled content of 25-75%.

2-6

**608.1 (2.8.1):** Use indigenous materials for major elements of the building.

2

**609.1 (2.8.2):** Select the more environmentally preferable product or assembly for an application based upon the use of a Life Cycle Assessment (LCA) tool compliant with ISO 14044 or other recognized standards that compares the environmental impact of building materials, assemblies, or a whole building.

3

**610.1 (7.1.1):** Product manufacturer's operations and business practices include environmental management system concepts and the production facility is ISO 14001 certified.

1-10

†The 600 series numbers reference the 2007 NAHB National Green Building Standard. The numbers in parentheses reference the equivalent criteria from NAHB's 2006 Model Green Home Building Guidelines, which served as the foundation for the National Green Building Standard.

\*Based on 2007 NAHB National Green Building Standard

## ASK ABOUT OUR OTHER CERTAINTEED PRODUCTS AND SYSTEMS:

**EXTERIOR:** ROOFING • SIDING • WINDOWS • FENCE • RAILING • TRIM • DECKING • FOUNDATIONS • PIPE  
**INTERIOR:** INSULATION • GYPSUM • CEILINGS

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