



# GREENER building materials

As an industry leader with a proud heritage spanning more than 100 years, USG understands the need to safeguard the world around us and protect the vital natural resources we all share. Long before conservation became a mainstream concern, USG was finding innovative ways to reduce waste, operate efficiently and transform manufacturing byproducts into valuable new resources.

With a firm belief that health, safety and environmental well-being are compatible with economic prosperity, USG maintains a longstanding commitment with our employees, customers and communities to reduce environmental impact, use recycled materials whenever feasible and eliminate manufacturing waste. We have a solid history of environmental leadership and responsibility, and we are constantly seeking environmentally friendly product and manufacturing solutions.

Consumers have become increasingly aware of the need to conserve energy, manage the use of raw materials, reduce waste and safeguard against pollutants. In response, many developers and owners now demand buildings with materials and technologies that will help save energy, preserve the integrity of the surrounding land and assure a clean, healthy indoor environment.

USG emphasizes innovation in our products, from the ingredients we choose to the processes we employ. Take a closer look at the advantages that let you choose USG products with confidence.



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Credit	Description	LEED-CI Requirement	Solution
Energy & Atmosphere Prereq. 2 Required	Minimum Energy Performance	Design portions of the building as covered by the tenant's scope of work to comply with ASHRAE/IESNA Standard 90.1-2004 or the local energy code, whichever is more stringent.	Using high Light Reflectance (LR) ceiling materials such as USG's acoustical ceiling panels (LR of .70 to .89) can reduce required luminaries of design space and improve the quality and quantity of natural light.
Materials & Resources Credit 2.1 1 point	Construction Waste Management Divert 50% From Disposal	Divert construction, demolition, and packaging debris from landfill disposal. Redirect recyclable recovered resources back to the manufacturing process. Redirect reusable materials to appropriate sites.	USG has a nationwide recycling program for ceiling panels and a pilot program in the New England/Boston area for drywall waste. See <a href="http://www.usg.com">www.usg.com</a> for details.
Materials & Resources Credit 2.2 1 points	Construction Waste Management Divert 75% From Disposal	Develop and implement a waste management plan, quantifying material diversion goals. Recycle and/or salvage at least 75% of construction, demolition and packaging debris	USG has a nationwide recycling program for its ceiling tile and a pilot program in the New England/Boston area for drywall waste. See <a href="http://www.usg.com">www.usg.com</a> for details.
Materials & Resources Credit 4.1-4.2 1-2 points	Recycled Content	Use materials with recycled content such that the sum of post-consumer content plus 1/2 of the post-industrial content constitutes at least 10% of the total value of the materials in project (1 point). An additional point is awarded if a total of 20% of the total value of the materials in the project is reached.	USG products are high in recycled content, while maintaining a high durability index or life expectancy. For more information on the recycled content of specific USG products refer to the USG Sustainability Table at <a href="http://www.usg.com">www.usg.com</a> .
Materials & Resources Credit 5.1 1 point	Local/Regional Materials	Use a minimum of 20% of building materials and products that are manufactured within a radius of 500 miles.	USG can contribute to this point for customers in many areas of the U.S. based on products used. For more information on distances of raw materials to our manufacturing facilities of specific USG products refer to the USG Sustainability Table at <a href="http://www.usg.com">www.usg.com</a> .
Materials & Resources Credit 5.2 1 point	Regional Materials, 10% Extracted and Manufactured Regionally	In addition to the requirements of MR 5.1, use a minimum of 10% of the combined value of construction and Division 12 (Furniture) materials and products extracted, harvested or recovered, as well as manufactured, within 500 miles of the project.	USG can contribute to this point for customers in many areas of the U.S. based on products used. For more information on distances of raw materials to our manufacturing facilities of specific USG products refer to the USG Sustainability Table at <a href="http://www.usg.com">www.usg.com</a> .

Credit	Description	LEED-CI Requirement	Solution
Materials & Resources Credit 6 1 point	Rapidly Renewable Materials	Use rapidly renewable building materials and products (made from plants that are typically harvested within a ten-year cycle or shorter) for 2.5% of the total value of all building materials and products used in the project, based on cost.	Many USG products, including all SHEETROCK and FIBEROCK brand panels and all acoustical ceiling panels, use starch made from wheat and/or corn as a binder. For more information on percentages of starch used in specific USG products refer to the USG Sustainability Table at <a href="http://www.usg.com">www.usg.com</a> .
Indoor Environmental Quality Credit 8.1-8.2 1-2 points	Daylight and Views	For at least 75% of all regularly occupied areas achieve a minimum Daylight Factor of 2% (excluding all direct sunlight penetrations) or using a computer simulation model, achieve at least 25 foot-candles. Also, provide daylight redirection and/or glare control devices to ensure daylight effectiveness. Achieve an additional point if you can affect 90% or more of all regularly occupied areas.	Using high Light Reflectance (LR) ceiling materials can reduce required luminaries of design space and improve the quality and quantity of natural light as required per ASHRAE and can contribute to these points.
Innovation in Upgrades, Operations & Maintenance Credit 1.1-1.4 1-4 points	Innovation in Operations and Upgrades	Earn points for exceptional performance above the requirements set by the LEED Green Building Rating System and/or innovative performance in categories not specifically addressed. Each innovation can earn one point for a total of four points.	Although the LEED rating systems currently do not address emissions of all building materials and their effects on indoor air quality, all USG products are low emitters of VOCs and meet the most stringent requirements for emission. USG offers the cleanest and lowest emitting products available and can contribute to innovation credits. For more information on VOC and formaldehyde emissions information of specific USG products refer to the USG Sustainability Table at <a href="http://www.usg.com">www.usg.com</a> .

**Note:** Use of the particular products/solutions listed in this grid contribute toward the efforts to achieve LEED points in these specific categories, however, use of these products/solutions alone does not guarantee achievement of point criteria or LEED certification of a building.



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