

# Levelrock LEED Table

## USG LEVELROCK and Green Building Ratings Systems

The most widely accepted national guidelines for environmentally conscious building is the LEED® (Leadership in Energy and Environmental Design) Green Building Rating System developed by the United States Green Building Council (USGBC). As a founding member of the USGBC, USG® is committed to helping architects, developers and contractors create structures that efficiently meet the needs of occupants while also protecting the surrounding environment.

LEVELROCK® products can contribute to the following credits and may help a project qualify for certification under the Green Building Rating System.

| LEED Category                       | Available Credits  | Products/Programs that May Assist in Qualifying for Credit  |
|-------------------------------------|--|---|
| <b>Materials and Resources</b>      |  |   |
|                                     | MR 4.1 and 4.2: Recycled Content<br><br>MR Credit 4: Recycled Content for LEED 2009 New Construction and Major Renovations   | <b>LEVELROCK® Green floor underlayments</b> contain recaptured gypsum, a byproduct of emissions controls at coal-fired utility plants, contributing to a pre-consumer recycled content of 94% and are manufactured in Gypsum, OH 43433 and Baltimore, MD 21226.<br><b>LEVELROCK™ SRM-25™ sound reduction mat, SAM-N12™, SAM-N25™, SAM-N40™ and SAM-N75™ sound attenuation mats and SRB™ sound reduction board</b> contain recycled materials contributing to a pre-consumer recycled content of 40% or more. See specific product data sheet for exact product recycled content information.  |
|                                     | MR 5.1 and 5.2: Regional Materials: Extracted, Processed and Manufactured Regionally<br><br>MR Credit 5: Regional Materials for LEED 2009 New Construction and Major Renovations | Many <b>LEVELROCK floor underlayments</b> are job site mixed (defined as the manufacturing location for MR % calculation) and made with locally obtained sand and water which can contribute to this credit area. The portion of material obtained locally can apply. If only a fraction of a product or material applies, then only that percentage shall contribute to the combined regional value. Our applicators also have the option of pre-sanded <b>LEVELROCK floor underlayments</b> which include <b>LEVELROCK 2500 Pre-Sanded, 3500 Pre-Sanded, 4500 NXG® Pre-Sanded, RH Pre-Sanded, QUIK-Top™, QUIK-Top™ Gray and PROFLOW™</b> . These products are pre-sanded at the bagged material manufacturing location with sand which has been obtained locally. The percentage of locally obtained sand would contribute to this credit area. |
| <b>Indoor Environmental Quality</b> |  |   |
|                                     | EQ 4 or 4.1, 4.2, 4.3 and 4.4: Low-Emitting Materials  | All <b>LEVELROCK floor underlayments, primers and sealers</b> contain low VOCs.   |
|                                     | EQ 3.1 and 3.2 Construction IAQ Management Plan<br><br>IEQ Credit 3.1 and 3.2 for LEED 2009 New Construction and Major Renovation  | As part of the plan and action of this credit area, the use of <b>LEVELROCK floor underlayment</b> products can contribute by providing materials that contain up to 33% less water than competitive underlayments contributing to a lower relative humidity as well as reduced drying time of the underlayment which allows for the construction schedule to be maintained. <b>LEVELROCK floor underlayment</b> products contain low VOCs.   |
|                                     | LEED 2009 for Schools New Construction and Major Renovations<br>IEQ Prerequisite 3: Minimum Acoustical Performance and IEQ Credit 9 – Enhanced Acoustical Performance            | This prerequisite outlines minimum STC and IIC requirements for classrooms and core learning spaces per ANSI Standard S12-60-2002. <b>LEVELROCK floor underlayment along with LEVELROCK sound board and sound mat options</b> will contribute to the STC and IIC performance of a floor/ceiling assembly. Floor/Ceiling sound test results and information is available in USG system brochure <i>Poured Cementitious Floor Systems (SA305)</i> , or go to <a href="http://www.usgdesignstudio.com/floorselector.asp">http://www.usgdesignstudio.com/floorselector.asp</a> to select a system for your application.   |

**Note:** MR 5.1 and 5.2: Regional Materials - Extracted, Processed and Manufactured Regionally: Many poured underlayment products are bagged mix materials that require job site manufacturing with water and locally obtained sand. The process of job site mixing and manufacturing allows for un-sanded LEVELROCK floor underlayment products to contribute to this credit area when the manufacturing location is within 500 miles of the project location.



**Understanding the Calculation of Recycled Content and Regional Material Credits**

According to USGBC, the intent of LEED Version 2.2 MR Credit 4.1 and 4.2, MR Credit 5.1 and 5.2, and LEED 2009 credit MR 4 and MR 5, is to increase the demand for building products that contain recycled materials and are manufactured regionally to reduce the impact of extraction and processing of virgin materials.

While the use of locally manufactured materials with recycled content is highly desirable, it is important to understand how to achieve the point(s) allotted for these credits.

**LEED Version 2.2 MR 4.1 and 4.2 Version 2.2 or LEED 2009 MR 4: Recycled Content**

The credit(s) are determined by the total recycled content value of the materials on the project constituting 10% or 20% based on cost of materials.

**Example project:** 40msf residential building – total project materials cost: \$750,000

A total recycled content value would need to be \$75,000 for MR 4.1 at 10% and \$150,000 for MR 4.2. at 20%

**Credit Formula:**

*Post-Consumer Recycled Content + ½ of Pre-Consumer-Recycled Content x Material Cost = Total Combined Value*

**LEED Version 2.2 MR 5.1 and 5.2 or LEED 2009 MR 5: Regional Materials**

The credit(s) are determined by the percentage of materials, by weight, on the project which are extracted, harvested, or recovered, as well as manufactured within 500 miles of the project site. The percentage must constitute 10%, 20% or 40% to achieve exemplary performance based on cost of the total materials value. If only a fraction of a product or material is extracted, harvested or recovered and manufactured locally, then only that percentage will contribute to the total value. This applies to materials used in Divisions 2-10. Where materials are mixed on site they are defined as being manufactured at the job site and all raw materials (percentage by finished weight) from within 500 miles would qualify for MR 5 Regional contribution.x

For material evaluation and project point contribution, the following information is necessary:

- Percentage by weight of material which is sourced locally or regionally
- Distance in miles between material source(s) and project location
- Distance in miles between manufacturing location and project location
- Product cost

This information is evaluated and calculated to obtain the total material value qualifying for this credit area.

Project example as used for MR 4.1/4.2 above: 40msf residential building - Total project materials cost: \$750,000

The total regionally obtained material percentage by weight, based on cost, would need to be \$75,000 for MR 5.1 at 10% and \$150,000 for MR 5.2 at 20%. Exemplary performance is also available for this credit category if the total percentage meets or exceeds 40%.

To better understand how this applies to a bagged product that is job site mixed/manufactured with local sand and/or water such as LEVELROCK floor underlayment, a breakdown is included below.

| Component Material     | Approximate % of Job Site Mixed and Finished Material |
|------------------------|---|
| Bagged LEVELROCK       | 25-35%  |
| Locally obtained sand  | 50-60%  |
| Locally obtained water | 10-15%  |

**Other Green Building Rating Systems**

In addition to contributing to a USGBC Green Building Rating System, Levelrock products can also contribute to a school following the CHPS green building rating program, NAHB Model Homes Green Building Standard, ANSI approved ICC-700-2008 National Green Building Standard, along with many other green building rating systems and guidelines. For detailed information on additional green building rating systems contact your local USG representative.

**Product Information**

See levelrock.com for the most up-to-date product information.

**LEED Information**

For the most up-to-date information on LEED rating systems, project certification and the U.S. Green Building Council, please visit usgbc.org.

**Trademarks**

The following trademarks used herein are owned by United States Gypsum Company or a related company: LEVELROCK, NXG, PROFLOW, QUIET-DECK, QUIK-Top, SAM-N25, SAM-N40, SAM-N75, SRB, SRM-25, USG, USG in stylized letters. LEED is a registered trademark of U.S. Green Building Council.

**Notice**

We shall not be liable for incidental or consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instruction or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

**Safety First!**

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation.

