



ICC-ES VAR Environmental Report VAR-1010

Reissued August 2023

This report is subject to renewal August 2024.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 21 00—Thermal Insulation

DIVISION: 40 00 00—PROCESS INTEGRATION

Section 40 42 13—Process Piping Insulation

REPORT HOLDER:

ROXUL INC.

EVALUATION SUBJECT:

ROCKWOOL GENERIC STONE WOOL INSULATION

1.0 EVALUATION SCOPE

Compliance with the following environmental criteria:

ICC-ES Environmental Criteria for Determination of Recycled Content of Materials (EC101), dated March 1, 2012.

Compliance eligibility with the applicable sections of the following green codes, standards and building rating systems:

- 2012 *International Green Construction Code*™ (IgCC) (see Table 2 for details)
- 2010 California Green Building Standards Code (CALGreen), Title 24, Part 11 (see Table 3 for details)
- National Green Building Standard (ICC 700-2008) (see Table 4 for details)
- LEED 2009 for New Construction and Major Renovations (see Table 5 for details)
- CSI GreenFormat™ (see Table 6 for details)

2.0 USES

ROCKWOOL stone wool insulation is used to manufacture generic batt, board and pipe insulation used as nonstructural thermal-insulating material.

The generic batt and board insulation is used on or within floors, floor-ceiling assemblies, attics, crawl spaces, walls and partitions.

The pipe insulation is used around pipes.

3.0 DESCRIPTION

ROCKWOOL stone wool insulation consists of a mixture of volcanic rock, slag, cement, binder and oil. The generic insulation is available in batt and board form. The pipe insulation is available in blanket form.

The product contains the recycled content type and amount set forth in Table 1 of this report.

4.0 CONDITIONS

4.1 Code Compliance:

Evaluation of ROCKWOOL stone wool insulation products for compliance with the International Building Code and/or International Residential Code is outside the scope of this evaluation report. Evidence of compliance must be submitted by the permit applicant to the Authority Having Jurisdiction (AHJ) for approval.

4.2 Green Code, Standards and Rating System Eligibility:

The information presented in Tables 2 through 6 of this report provides a matrix of areas of evaluation and corresponding limitations and/or additional project-specific requirements, and offers benefits to individuals who are assessing eligibility for credits or points.

The final interpretation of the specific requirements of the respective green building rating system and/or standard rests with the developer of that specific rating system or standard or the authority having jurisdiction (AHJ), as applicable.

Compliance for items noted as “Verified Attribute” is subject to any conditions noted in the tables. Decisions on compliance for those items noted as “Eligible for Points” in Tables 2 through 6 rest with the user of this report, and those items are subject to the conditions noted. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. Rating systems or standards often provide supplemental information as guidance.

The total percentage of recycled content reported is based upon assigning an equal value for each type of recycled content used in accordance with IgCC Section 505.2.2 and ICC 700 Section 604.1. Where the recycled content values are used for determination of compliance with requirements other than those of the IgCC and ICC 700, the total percent of recycled content must be calculated in accordance with the percentage requirements stated in the applicable document.

Due to the variability of costs and volume, the recycled content percentage listed in this report is based upon weight (mass). The use of cost or volume as the method for calculation is outside the scope of this report.

5.0 BASIS OF EVALUATION

The information in this report, including the “Verified Attribute,” is based upon the following supporting documentation:

ICC-ES EC101 (Evaluation applies to IgCC Section 505.2; CALGreen Sections A4.405.3 and A5.405.4; ICC 700 Section 604.1; LEED NC MR Credit 4; CSI GreenFormat Section 2.3.3.)

6.0 IDENTIFICATION

6.1 Each package of ROCKWOOL stone wool insulation product is identified by a label bearing the Roxul Inc.

name and address, product name, manufacturing date, manufacturing location and the VAR Environmental Report number (VAR-1010).

6.2 The report holder’s contact information is the following:

ROXUL INC.
8024 ESQUESING LINE
MILTON, ONTARIO L9T 6W3
CANADA
(800) 265-6878
www.rockwool.com

TABLE 1—RECYCLED CONTENT BY WEIGHT SUMMARY

PRODUCT NAME	PLANT LOCATION	% PRE-CONSUMER RECYCLED CONTENT	% POST-CONSUMER RECYCLED CONTENT	% IN-PROCESS RECYCLED CONTENT—TREATED ²	% TOTAL RECYCLED CONTENT
Generic Stone Wool Insulation	Milton, ON	25 - 35	1 - 1.35	44 - 56.6	70 - 93 ¹

Notes:

¹The values represent the minimum and maximum range of available recycled content for the products. The actual recycled content amount for the products provided to the end user depends on the product formulation requested by the customer. ROCKWOOL will provide the customer the ROCKWOOL Recycled Content Calculator output with each order.

²This category is considered pre-consumer recycled content as defined in EC101.

TABLES 2 THROUGH 6

Section Number	Section Intent	Possible Points	Conditions Of Use To Qualify For Points	Finding
TABLE 2—SUMMARY OF AREA OF ELIGIBILITY WITH 2010 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)				
505.2	Recycled content building materials	N/A	Recycled content building materials shall comply with one of the following: 1. Contain not less than 25 percent combined post-consumer and pre-consumer recovered material, and shall comply with section 505.2.3 2. Contain not less than 50 percent combined post-consumer and pre-consumer recovered material	●
TABLE 3—SUMMARY OF AREA OF ELIGIBILITY WITH 2010 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)				
A4.405.3 A5.405.4	Recycled content	—	To achieve Tier 1 - Use materials, equivalent in performance to virgin materials, with a postconsumer or pre-consumer recycled content value (RCV) for a minimum of 10% of the total value, based on estimated cost of materials on the project. To achieve Tier 2 - Use materials with a postconsumer or pre-consumer RCV for a minimum of 15% of the total value, based on estimated cost of materials on the project. RCV shall be determined as follows: RCV = (% PC X material cost) + 0.5 (% PI X material cost) Notes: 1. PC means post-consumer waste. 2. PI means post industrial waste.	●
TABLE 4—SUMMARY OF AREA OF ELIGIBILITY WITH THE NATIONAL GREEN BUILDING STANDARD (ICC 700-2008)				
604.1	Use two or more major and/or minor building materials containing recycled content	2 6 max	2, 4 or 6 points may be earned when products are used with another major building component with recycled content of 25% < 50%; 50% < 75%; ≥ 75%, respectively.	●
TABLE 5—SUMMARY OF AREA OF ELIGIBILITY WITH USGBC’S LEED 2009 FOR NEW CONSTRUCTION AND MAJOR RENOVATION				
MR 4	Recycled content	1 2 max	To earn 1 point use materials with recycled content such that the sum of postconsumer recycled content plus 1/2 of the pre-consumer content constitutes at least 10%, based on the cost, of the total value of the materials in the project. To earn 2 points use 20% or more.	●
TABLE 6—SUMMARY OF AREA OF ELIGIBILITY WITH CSI GREENFORMAT™				
2.3.3	Recycled content	N/A	This category relates to LEED rating system points. For specifics see the GreenFormat-LEED Relationships Table .	●

● = Verified attribute