

ROCKWOOL Factsheet - Leadership in Energy and Environmental Design (LEED) v4

About ROCKWOOL

The ROCKWOOL Group is a leading global supplier of insulation products for residential and commercial buildings. We are the largest producer of stone wool insulation in the world and operate 51 factories across three continents, including our UK factory in Bridgend, South Wales.

ROCKWOOL provides a comprehensive range of insulation products. Our insulation is created from a natural, sustainable resource – volcanic rock – and is recyclable. During its lifetime, a typical ROCKWOOL insulation product will save more than 100 times the energy used in its manufacture.

All ROCKWOOL's thermal and acoustic insulation products are suitable for use in all LEED projects.

What is this factsheet for?

This factsheet details areas where ROCKWOOL products can contribute towards achieving LEED credits.

The information contained in this document has been prepared as a self-assessment of ROCKWOOL products against the LEED performance criteria. It is not intended to imply any approval or endorsement by USGBC or the LEED green building programme.

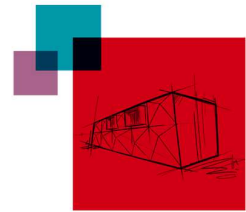
Who is this factsheet for?

This factsheet has been produced to help LEED Accredited Professionals when carrying out LEED assessments or for design and specification teams when considering projects that will undergo LEED certification.

Credits to which ROCKWOOL products may contribute

ROCKWOOL products may contribute toward satisfying credits in the following categories of LEED v4 for Building Design and Construction:

- Energy and Atmosphere (EA)
- Materials and Resources (MR)
- Environmental Quality (EQ)



Energy and Atmosphere

EA Credit: Optimise Energy Performance (18 points)

Credits are awarded on a sliding scale based on how the calculated energy performance of the building compares to the regulatory minimum of other buildings of the same type. Incorporating high levels of insulation in the design will help to achieve these credits.

ROCKWOOL supply a range of thermal insulation products for use in a number of applications which can be specified as part of a highly energy efficient building design.

Materials and Resources

MR Credit: Construction and Demolition Waste Management Planning (Prerequisite)

Projects must develop and implement a construction and demolition waste management plan which identifies at least five materials targeted for diversion and describes the diversion strategies planned for the project.

ROCKWOOL operates a recycling programme for ROCKWOOL waste arising from construction works and could be identified as one of the five materials targeted for diversion.

MR Credit: Building Product Disclosure and Optimization – Environmental Product Declarations (1 point)

The credit is awarded for using at least 20 different permanently installed products from at least 5 different manufacturers with an environmental product declaration that meets the specified disclosure criteria. Products can be counted as a half or a whole depending on the type of EPD they have.

ROCKWOOL can provide product specific Type III EPDs on request which enable each of our products to be considered as one whole product for the purposes of the credit achievement calculation.

MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials (2 points)

A credit is available where 20 different products from 5 different manufacturers have released a report covering their raw material suppliers which meets specific criteria. Products can be counted as a half or a whole depending on the type of report.

ROCKWOOL Group has published a self-declared GRI Sustainability Report and a Code of Conduct for its supply chain and therefore ROCKWOOL products can be considered as half a product for the purposes of the credit achievement calculation.

A further credit is available where 25% by value of the products used in the building meet specific responsible extraction criteria. Products are valued between 50% and 200% of their actual cost towards the calculation of this credit depending on which of the criteria they meet.

ROCKWOOL operates a takeback recycling scheme.

MR Credit: Building Product Disclosure and Optimization – Material Ingredients (2 points)

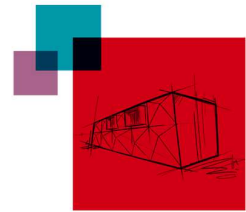
A credit is available where 20 different products from 5 different manufacturers use defined programs to demonstrate the chemical inventory of the product to at least 0.1%

A publicly available Manufacturer Inventory for ROCKWOOL stone wool insulation may be found [here](#) and so ROCKWOOL products may contribute directly towards the achievement of this credit.

A further credit is available where products are used that document their material ingredient optimization using a defined pathway for at least 25% of the total value of permanently installed products in the project.

One of the defined pathways is the International Alternative Compliance Path – REACH Optimization, which requires a declaration that the product does not contain any REACH substances of very high concern (SVHC).

ROCKWOOL stone wool products contribute directly to the achievement of this credit. Please see the Manufacturer Inventory [here](#) for our REACH declarations.



MR Credit: Construction and Demolition Waste Management (2 points)

Option 1: Diversion

Credits are awarded for the diversion of construction and demolition material from landfill. One credit is available for diverting 50% and three material streams. An extra credit is available for diverting 75% and four material streams.

ROCKWOOL operates a takeback recycling scheme.

Option 2: Reduction of Total Waste Material

The credits are available where less than 2.5 lbs of construction waste per square foot (12.2 kg/m²) of the building's floor area is generated.

ROCKWOOL products do not produce much construction waste when installed. Typically 2% m/m waste is assumed to be generated during installation. In addition ROCKWOOL operates a takeback recycling scheme for any waste ROCKWOOL product generated during installation.

Environmental Quality

EQ Credit – Acoustic performance (1 point)

A credit is awarded where defined acoustic performance standards are met.

ROCKWOOL products can deliver excellent acoustic performance. Speak to a member of our technical team for more information.

EQ Credit: Low Emitting Material (3 points)

Credits are awarded in this section based on the number of categories of products tested and certified to defined test methodologies.

Comprehensive full-scale investigations sponsored by the European trade association for mineral wool insulation (EURIMA) and carried out at the Fraunhofer Institute in Germany have shown that there is no measurable contribution to levels of VOC or formaldehyde (a VVOC or Very Volatile Organic Chemical) in buildings from mineral wool insulation. However ROCKWOOL products manufactured in the UK have not been tested in accordance with the methodologies listed and so do not currently have the defined certification necessary to demonstrate compliance under this section.