

FACT SHEET

Polyiso EPDs Highlight Superior Energy Savings Potential of Polyiso Roof and Wall Insulation

The energy savings potential of polyiso roof and wall insulation over a typical 60-year building life span is equal to up to 47 times the initial energy required to produce, transport, install, maintain, and eventually remove and dispose of the insulation.

An Environmental Product Declaration is a transparent, third-party verified disclosure of a product's environmental impacts — similar to a "nutrition label." EPDs are now being used by all major green building rating systems globally and in North America, including LEED, BREEAM, GreenStar and Living Building Challenge.

Consistent with its leadership in the delivery of energy-efficient and sustainable building insulation solutions, the Polyisocyanurate Insulation Manufacturers Association (PIMA) has completed third-party verified, ISO-compliant Environmental Product Declarations (EPDs) for polyisocyanurate (polyiso) roof and wall insulations as manufactured by PIMA members across North America. The EPDs provide consistent and comparable environmental impact data and document that:

- The energy savings potential of polyiso roof and wall insulation over a typical 60-year building life span is equal to up to 47 times the initial energy required to produce, transport, install, maintain, and eventually remove and dispose of the insulation.
- Polyiso has a high return on embodied energy.
- Polyiso roof and wall insulation offer high unit R-value per inch, zero ozone depletion potential, recycled content, opportunity for reuse, and outstanding fire performance.

The PIMA polyiso EPDs also:

- Present information about additional environmental and energy characteristics, including the high net return on energy provided by polyiso roof and wall insulation.
- Describe the environmental impacts of the combined weighted average production for PIMA member manufacturing locations located across the United States and Canada, based on an established set of product category rules applicable to all types of building thermal insulation.

The environmental impacts reported in the PIMA polyiso EPDs are derived from an independently verified, cradle-to-grave life cycle assessment (LCA) process, including all critical elements related to the resourcing, production, transport, installation, maintenance, and eventual removal and replacement of polyiso roof and wall insulation.

Using the LCA process, the PIMA polyiso roof and wall insulation products are evaluated on a number of impact categories, including global warming



PIMA EPDs and LEED:

PIMA polyiso roof and wall insulation EPDs meet the requirements of the U.S. Green Building Council (USGBC) LEED® v4 Green Building Rating System under Credit MRC-2 Building Product Disclosure and Optimization: Environmental Product Declarations as industry-wide or generic declarations.

PIMA EPDS and Green Building Codes:

PIMA polyiso roof and wall insulation EPDs meet the material selection requirements of the 2015 International Green Building Code (IgCC) under Section 505.3.1 Environmental Product Declarations.

potential, ozone depletion potential, eutrophication potential, acidification potential, and smog creation potential, as well as other environmental indicators, including primary energy demand, resource depletion, waste to disposal, waste to energy, and water use.

The PIMA polyiso roof and wall EPDs were developed based on ISO-compliant LCA studies conducted by PE International. The Product Category Rule (PCR), or the standard under which the EPDs were developed, was published by Underwriters Laboratories (UL 110116 Product Category Rule for Building Thermal Insulation). The EPDs were third-party verified by NSF, and impact data reported in the EPDs represent the weighted average production for all PIMA members. Copies of the PIMA polyiso roof and wall insulation EPDs may be downloaded from PIMA (www.polyiso.org) and from NSF International (www.NSF.org) and are also available from PIMA members.

About Polyiso

Polyiso is a rigid foam insulation used in over 70 percent of commercial roof construction, in commercial sidewall construction, and in residential construction across North America.

About PIMA

For over 25 years, the Polyisocyanurate Insulation Manufacturers Association (PIMA) has served as the unified voice of the rigid polyiso industry, proactively advocating for safe, cost-effective, sustainable, and energy-efficient construction. PIMA's members, who first came together in 1987, include a synergistic partnership of polyiso manufacturers and industry suppliers. Polyiso is one of the nation's most widely used and cost-effective insulation products available. To learn more, visit www.polyiso.org.

Products produced by the following PIMA members are included in the PIMA polyiso roof and wall insulation EPDs, based on weighted average production:



Atlas Roofing Corporation
www.atlasroofing.com



Firestone Building Products Company
www.firestonebpc.com



GAF
www.gaf.com



Hunter Panels
www.hpanels.com



Johns Manville
www.johnsmanville.com



Rmax Operating, LLC
www.rmax.com