

QuickStart Guide | v1 November 2017

Project Builder / Configurator & Library

app.transparencycatalog.com/company/knauf-insulation/showroom

Learn while you do.

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7. Education:
 - a. Green building rating system credits
 - b. Embodied energy/global warming payback demonstration
 - c. Knauf's commitment to sustainability

Action

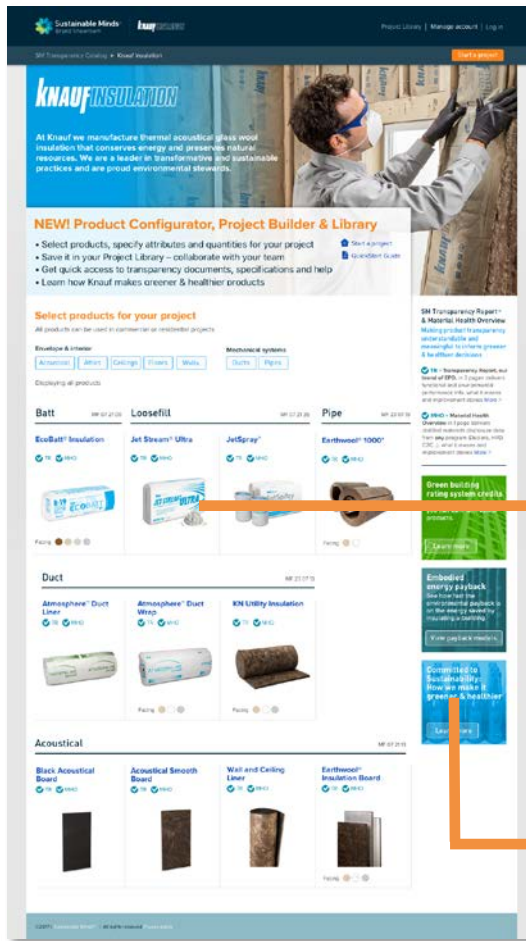
- Select products, specify attributes and quantities for your project
- Save it in your Project Library – collaborate with your team
- Get quick access to transparency documents, specifications and help
- Contact Knauf for specification support and quote requests

Education

- Learn what the product transparency disclosure information means and what Knauf is doing to improve
- Identify all the green building rating system credits available for all Knauf products
- Understand the embodied energy / global warming payback when using Knauf products
- Learn how Knauf makes greener and healthier products

Overview

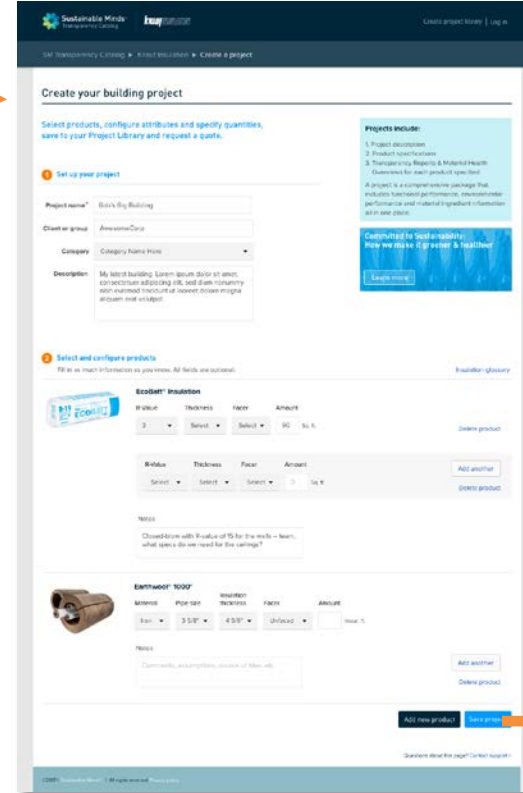
Knauf Brand Showroom



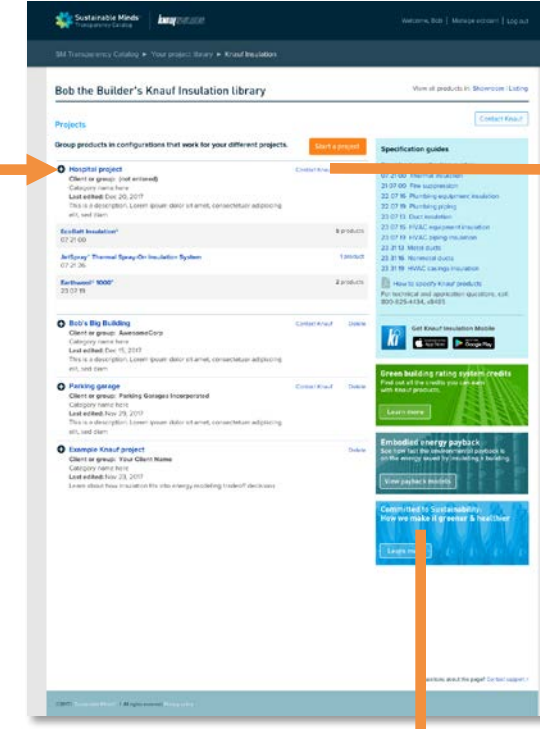
SM Transparency Report & SM Material Health Overview



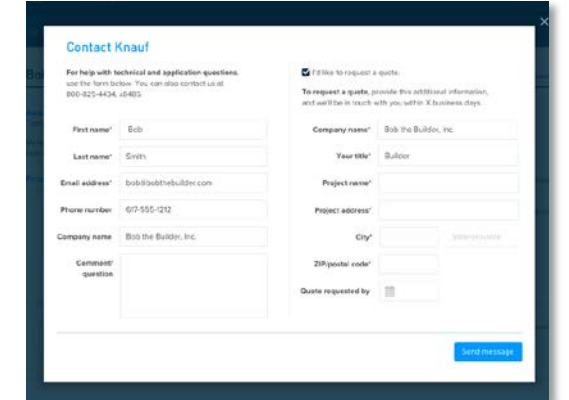
Project Builder / Product Configurator



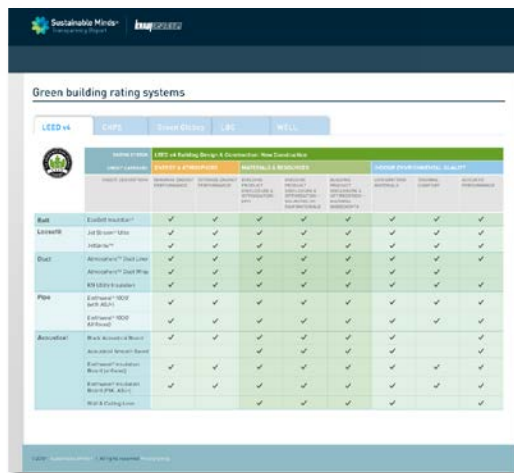
Project Library



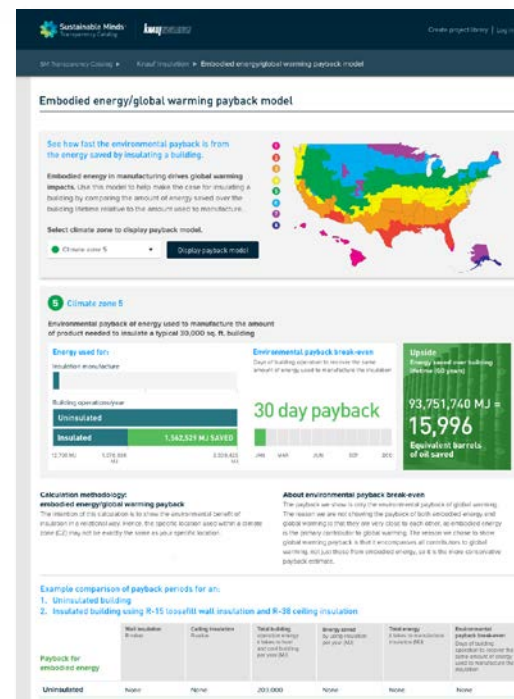
Contact Knauf



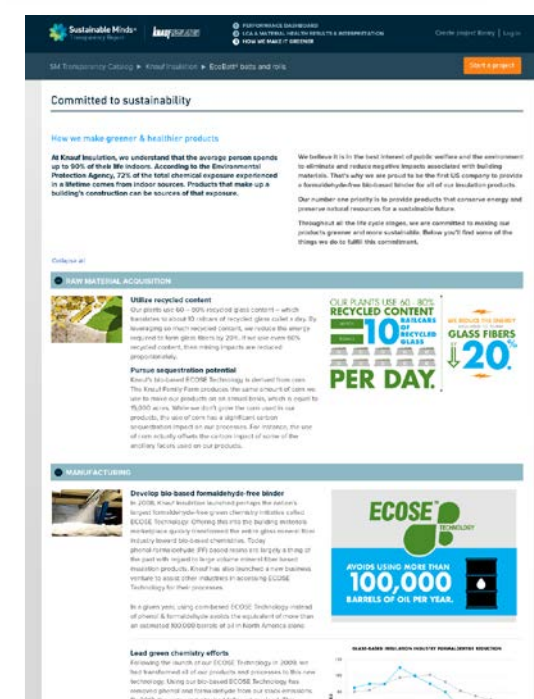
Green building rating system credits



Embodied energy/global warming payback demonstration



How Knauf makes greener & healthier products



Sustainable Minds™ Brand Showroom

Knauf INSULATION

Project Library | Manage account | Log in

SM Transparency Catalog ▶ Knauf Insulation

Start a project

At Knauf we manufacture thermal acoustical glass wool insulation that conserves energy and preserves natural resources. We are a leader in transformative and sustainable practices and are proud environmental stewards.

NEW! Product Configurator, Project Builder & Library

- Select products, specify attributes and quantities for your project
- Save it in your Project Library – collaborate with your team
- Get quick access to transparency documents, specifications and help
- Learn how Knauf makes greener & healthier products

Select products for your project

All products can be used in commercial or residential projects

Envelope & interior

Acoustical
Attics
Ceilings
Floors
Walls

Mechanical systems

Ducts
Pipes

Displaying all products

Batt

MF 07 21 00

Loosefill

MF 07 21 26

Pipe

MF 23 07 19

EcoBatt® Insulation

TR MHO

Facing

Jet Stream® Ultra

TR MHO

Facing

Jet Spray™

TR MHO

Facing

Earthwool® 1000®

TR MHO

Facing

Duct

MF 23 07 13

Atmosphere™ Duct Liner

TR MHO

Facing

Atmosphere™ Duct Wrap

TR MHO

Facing

KN Utility Insulation

TR MHO

Facing

Acoustical

MF 07 21 13

Black Acoustical Board

TR MHO

Facing

Acoustical Smooth Board

TR MHO

Facing

Wall and Ceiling Liner

TR MHO

Facing

Earthwool® Insulation Board

TR MHO

Facing

SM Transparency Report™ & Material Health Overview

Making product transparency understandable and meaningful to inform greener & healthier decisions

TR = Transparency Report, our brand of EPD, in 3 pages delivers functional and environmental performance info, what it means and improvement stories

MHO = Material Health Overview in 1 page delivers distilled materials disclosure data from any program (Declare, HPD, C2C...), what it means and improvement stories

Green building rating system credits

Find out all the credits you can earn with Knauf products

Learn more

Embodied energy payback

See how fast the environmental payback is on the energy saved by insulating a building

View payback models

Committed to Sustainability: How we make it greener & healthier

Learn more

Knauf Showroom

The Knauf Showroom is where you can find all of Knauf's products with transparency disclosures, understand what they mean and how to use them to earn rating system credits, and learn what Knauf is doing to improve its products environmental performance and material health.

- View products** by product type and CSI MasterFormat division number; or
- Filter products** to find the ones for a specific application.
- Quick access to SM Transparency Reports (TR)**, our brand of EPD, our brand of EPD, in 3 pages delivers functional and environmental performance info, what it means and improvement stories.
SM Material Health Overviews, which in 1 page deliver distilled material disclosure data from any program (Declare, HPD, C2C...), what it means and improvement stories
- Start a project** to select and specify products for a building you're working on, or to create a model for the types of building projects you and your firm work on.
- Find out all the credits you can earn with Knauf products from green building rating systems:** LEED, CHPS, Green Globes, Living Building Challenge and WELL
- See how fast it is to recover the energy used to make Knauf products when they're put into a building**
- Learn about what Knauf is doing across the product life cycle to make greener and healthier products**

Select products for your project

All products can be used in commercial or residential projects

Envelope & Interior

Acoustical Attics Ceilings Floors Walls

Mechanical systems

Ducts Pipes

Displaying 2 of 11 products

Batt

MF 07 21 00

Loosefill

MF 07 21 26

EcoBatt® batts and rolls

TR MHO



Facing

Start a project

Download PDF

Jet Stream® ULTRA

TR MHO



Facing

Start a project

Download PDF





1 PERFORMANCE DASHBOARD
2 LCA & MATERIAL HEALTH RESULTS & INTERPRETATION
3 HOW WE MAKE IT GREENER

Project Library | Manage account | Logout

SM Transparency Catalog ▶ Knauf Insulation ▶ EcoBatt® batts and rolls

Start a project




EcoBatt® batts and rolls

Unfaced, Kraft, FSK, Foil

EcoBatt glass mineral wool insulation takes sustainability to a new level while delivering Knauf's exceptional quality, handling and durability. EcoBatt leverages ECOSE® Technology—a revolutionary binder that transformed the glass wool insulation industry. It is based on rapidly renewable, bio-based material. EcoBatt also contains sand—an abundant resource—and recycled glass.

with ECOSE® Technology





1

Performance dashboard

Features & functionality

Faced products resist tears, are marked in one-foot increments, and feature extra wide stapling flange for faster and easier install

Highly resilient, recovers quickly to full thickness for snug fit and superior aesthetics

Consistent quality materials cut easily with low dust

Excellent acoustical properties reduce sound transmission

Visit Knauf for more product information

Environment & materials

Improved by:

- Utilization of recycled glass
- Knauf's original plant-based ECOSE binder technology
- Optimized compression packaging

Certifications, rating systems & disclosures:

- Declare, Red List Free and HPD v2.1
- Energy Star
- UL GREENGUARD Gold certified
- UL Validated recycled content & formaldehyde-free
- Audited, European Certification Board for Mineral Wool Products exoneration process

CSI MasterFormat® #07 21 00


Thermal Insulation Guide Specification


For spec help, contact us or call 317 421 8727


See LCA, interpretation & rating systems

See materials, interpretation & rating systems









SM Transparency Report™ + Material Health Overview™

VERIFICATION	LCA
3rd party reviewed	 
Transparency Report	
3rd party verified	 
Material evaluation	
Self-declared	

Validity: 11/07/17 – 11/07/22
KNA – 11072017 – 001

This declaration was independently verified by NSF to the UL Environment PCR and ISO 14025.

NSF International
P.O. Box 130140
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Ann Arbor, MI 48105, USA
www.nsf.org
734 769 8010



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www.knaufinsulation.us
317 398 4434

Contact us

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SM Transparency Reports & SM Material Health Overviews

Transparency Reports, our brand of EPD, in 3 pages delivers functional and environmental performance info, what it means and improvement stories. Material Health Overviews in 1 page deliver distilled material disclosure data from *any* program (Declare, HPD...), what it means & improvement stories.


1. **See Page 1 of the Transparency Report** for all the information needed to to make a decision
2. **Review lifecycle assessment, material health results and interpretation** in language and in a format that's easy to read and understand; green building rating system credits this product is eligible for
3. **Learn how Knauf is making greener and healthier products across the life cycle**

**Page 2a – LCA results & interpretation:
review LCA results, interpretation, links
to reference docs, rating system credits**

Page 2b – Material Health Overview:
material evaluation results, interpretation,
links to reference docs, rating system

Page 3: Learn what Knauf is doing in every life cycle stage to improve the environmental performance

[illegible][illegible][illegible]



SM Transparency Catalog

Knauf Insulation

Create project library | Log in

SM Transparency Catalog

Knauf Insulation

Create a project

Create your building project

Select products, configure attributes and specify quantities, save to your Project Library and request a quote.

1 Set up your project

2

Project name*

Bob's Big Building

Client or group

AwesomeCorp

Category

Category Name Here

Description

My latest building. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.

Projects include:

1. Project description

2. Product specifications

3. Transparency Reports & Material Health Overviews for each product specified

A project is a comprehensive package that includes functional performance, environmental performance and material ingredient information all in one place.

Committed to Sustainability: How we make it greener & healthier

Learn more

2 Select and configure products

Fill in as much information as you know. All fields are optional.

Insulation glossary

EcoBatt® Insulation

R-Value

3

Thickness

Select

Facer

Select

Amount

90

Sq. ft.

Delete product

R-Value

Select

Thickness

Select

Facer

Select

Amount

0

Sq. ft.

Add another

Delete product

Notes

3

Closed-blow with R-value of 15 for the walls – team, what specs do we need for the ceilings?

Earthwool® 1000®

Material

Iron

Pipe size

3 5/8"

Insulation thickness

4 5/8"

Facer

Unfaced

Amount

lineal. ft.

Notes

Comments, assumptions, source of idea, etc.

Add another

Delete product

Add new product

Save project

Questions about this page? Contact support >

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Project Builder / Product Configurator

The Project Builder / Product Configurator allow you to create and save groups of products and their specifications for your projects, speeding time to select and review.

- Set up your project. A project includes:**
 - Project name and optional client or group name associated with the project, building type and project description
 - List of products selected and their specified attributes, including multiple configurations of the same product
 - User notes or questions about product specifications
 - Once saved, easy access to the TR and MHO for each product in the project
- Choose one or more Knauf products and add specifications.** You can add multiple configurations of the same product. Nothing has to be final – this is your playground as you design the project.
- Store notes** that explain why you've made a particular choice, or leave a question for a team member you're collaborating with.
- Save projects to your Project Library** for reference and sharing. To save a project, create an SM Transparency Catalog account. Creating an account is easy and noninvasive, requiring only a name, email address and a password. If it's for your company, share the login to collaborate with your team.

Create my SM Transparency Catalog Project Library 4

You can save projects, download project packages, get spec help and request a quote.

We will never sell, loan, rent, trade, exchange, or share your name or your email with anyone.

Read our privacy policy.

First name*

Already have an account? Log in

Last name

Email address*

Phone number

Company name

Your title

Password*


Confirm password*

Create Project Library

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Project Library

1. **See at-a-glance list of saved projects**; client, type and description; products were selected and number of configurations of each product specified
2. **Refer to example Knauf project** to see how the Project builder / Product configurator can store specifications and notes for multiple Knauf products.
3. **Download Knauf three-part specification guides and how to instructions to specify Knauf products**
4. **Automatically submit project and product specifications to Knauf** to request a quote
5. **View the project to access the project info and products** selected with specifications and notes.
Edit this page at any time to continue working on your project.
6. **Download a PDF of this project page, along with the Transparency Reports and Material Health Overviews for the products selected**, for presentation and submission packages.



Project Library | Manage account | Logout

5M Transparency Catalog
 • Your Project Library
 • Knaf insulation
 • EXAMPLE PROJECT: MHP Medical Center

Start a project

EXAMPLE PROJECT: MHP Medical Center

Edit project

Download project

Delete project

Client or group

Major Healthcare, Shelbyville, IN

Category

Healthcare


Description

MHP is a 200,000 sq ft medical center that provides for both consolidation of existing operations and new beds / care facilities to accommodate the growth and change of the community and region it serves.

This will be a LEED v4 certified project so looking to specify products that contribute to both the environmental performance and materials ingredients credits.

Products selected for your project

Insulation glossary




EcoBatt® batts and rolls

1 product

R-VALUE	THICKNESS	FACER	AMOUNT
13	3.5	Unfaced	70000 sq. ft.

NOTES

For interior side of exterior wall, formaldehyde-free; has EPD and Red List Free Declare Label




Atmosphere® Duct Wrap

1 product

DENSITY	THICKNESS	R-VALUE	FACER	AMOUNT
0.75	2.1875	6	Unfaced	30000 sq. ft.

NOTES

For supply and return air ducting, formaldehyde-free; has EPD and HPD 2.1




Earthwool® Insulation Board

1 product

DENSITY	THICKNESS	AMOUNT
3	2	5000 sq. ft.

NOTES

For outdoor ducts in parking area, formaldehyde-free; has EPD and HPD 2.1



Earthwool® 1000

1 product

MATERIAL	PIPE SIZE	INSULATION	FACER	AMOUNT
Iron	1	2	Unfaced	12000 lineal ft.

NOTES

For domestic hot and cold, chilled water loop, and steam lines, formaldehyde-free; has EPD and HPD 2.1

Contact buttons and links are available in the Project Library and the Performance Dashboard and footer of SM Transparency Reports and SM Material Health Overviews for each product, making it easy and convenient to get in touch with Knauf.

For those interested in requesting a quote: project info and product specifications will automatically be included when you use the Contact Knauf link in the project for which you are requesting the quote.


Contact Knauf

For help with technical and application questions, use the form below. You can also contact us at 800-825-4434, x8485.

First name*	<input type="text" value="Bob"/>
Last name*	<input type="text" value="Smith"/>
Email address*	<input type="text" value="bob@bobthebuilder.com"/>
Phone number	<input type="text" value="617-555-1212"/>
Company name	<input type="text" value="Bob the Builder, Inc."/>
Comment/question	<div></div>

☒ I'd like to request a quote.

To request a quote, provide this additional information, and we'll be in touch with you within X business days.

Company name*	<input type="text" value="Bob the Builder, Inc."/>		
Your title*	<input type="text" value="Builder"/>		
Project name*	<input type="text"/>		
Project address*	<input type="text"/>		
City*	<input type="text"/>	<input type="text" value="State/province"/>	
ZIP/postal code*	<input type="text"/>		
Quote requested by	<div></div>		

[Send message](#)

Sustainable Minds
Transparency Catalog

Welcome, Bob | Manage account | Log out

SM Transparency Catalog ▶ Your project library ▶ Knauf Insulation

Bob the Builder's Knauf Insulation library

View all products in: [Showroom](#) | [Listing](#)

Contact Knauf

Group products in configurations that work for your different projects.

[Start a project](#)

+ **Hospital project**

Client or group: (not entered)
Category name here
Last edited: Dec 20, 2017
This is a description. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam

EcoBatt Insulation® 07 21 00	5 products
JetSpray™ Thermal Spray-On Insulation System 07 21 26	1 product
Earthwool® 1000® 23 07 19	2 products

+ **Bob's Big Building**

Client or group: AwesomeCorp
Category name here
Last edited: Dec 15, 2017
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Specification guides


Download specification guides:

- 07 21 00 Thermal insulation
- 21 07 00 Fire suppression
- 22 07 16 Plumbing equipment insulation
- 22 07 19 Plumbing piping
- 23 07 13 Duct insulation
- 23 07 16 HVAC equipment insulation
- 23 07 19 HVAC piping insulation
- 23 31 13 Metal ducts
- 23 31 16 Nonmetal ducts
- 23 31 19 HVAC casings insulation


How to specify Knauf products

For technical and application questions, call:
800-825-4434, x8485

Get Knauf Insulation Mobile



Sustainable Minds[®]
Brand Showroom



[Project Library](#) | [Manage account](#) | [Logout](#)

[SM Transparency Catalog](#) ▶ [Your Project Library](#) ▶ [Knauf Insulation](#) ▶ **EXAMPLE PROJECT: MHP Medical Center**

Start a project

EXAMPLE PROJECT: MHP Medical Center

Edit project

Download project

[Delete project](#)

Client or group

Major Healthcare, Shelbyville, IN

Contact Knauf

Category

Healthcare


Description

MHP is a 200,000 sf medical center that provides for both consolidation of existing operations and new beds / care facilities to accommodate the growth and change of the community and region it serves.

This will be a LEED v4 certified project so looking to specify products that contribute to both the environmental performance and materials ingredients credits.

Products selected for your project

Insulation glossary



EcoBatt® batts and rolls

1 product

R-VALUE	THICKNESS	FACER	AMOUNT
13	3.5	Unfaced	70000 sq. ft.

NOTES

For interior side of exterior wall, formaldehyde-free; has EPD and Red List Free Declare Label

1. **Green building rating system credits:** Find out all the credits you can earn with Knauf products from five green building rating systems: LEED, CHPS, Green Globes, Living Building Challenge and WELL.
2. **Embodied energy/global warming payback demonstration:** See how fast it is to recover the energy used to make Knauf products when they're put into a building, and compare how much energy an insulated building in a specific climate zone saves relative to one with no insulation.
3. **Committed to sustainability:** Learn about what Knauf is doing across the product lifecycle to make greener and healthier products.

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Sustainable Minds®
Transparency Report

1 PERFORMANCE DASHBOARD

2 LCA & MATERIAL HEALTH RESULTS & INTERPRETATION

3 HOW WE MAKE IT GREENER

Create project library | Log in

SM Transparency Catalog ▶ Knauf Insulation ▶ EcoBatt® batts and rolls

Start a project

Committed to sustainability

How we make greener & healthier products

At Knauf Insulation, we understand that the average person spends up to 90% of their life indoors. According to the Environmental Protection Agency, 72% of the total chemical exposure experienced in a lifetime comes from indoor sources. Products that make up a building's construction can be sources of that exposure.

We believe it is in the best interest of public welfare and the environment to eliminate and reduce negative impacts associated with building materials. That's why we are proud to be the first US company to provide a formaldehyde-free bio-based binder for all of our insulation products.

Our number one priority is to provide products that conserve energy and preserve natural resources for a sustainable future.

Throughout all the life cycle stages, we are committed to making our products greener and more sustainable. Below you'll find some of the things we do to fulfill this commitment.

Collapse all

RAW MATERIAL ACQUISITION

Utilize recycled content

Our plants use 60 – 80% recycled glass content – which translates to about 10 railcars of recycled glass cullet a day. By leveraging so much recycled content, we reduce the energy required to form glass fibers by 20%. If we use even 60% recycled content, then mining impacts are reduced proportionately.

Pursue sequestration potential

Knauf's bio-based ECOSE Technology is derived from corn. The Knauf Family Farm produces the same amount of corn we use to make our products on an annual basis, which is equal to 15,000 acres. While we don't grow the corn used in our products, the use of corn has a significant carbon sequestration impact on our processes. For instance, the use of corn actually offsets the carbon impact of some of the ancillary factors used on our products.

OUR PLANTS USE 60 – 80% RECYCLED CONTENT

10 RAILCARS OF RECYCLED GLASS

WE REDUCE THE ENERGY REQUIRED TO FORM GLASS FIBERS BY 20%

PER DAY.

MANUFACTURING

Develop bio-based formaldehyde-free binder

In 2008, Knauf Insulation launched perhaps the nation's largest formaldehyde-free green chemistry initiative called ECOSE Technology. Offering this into the building materials marketplace quickly transformed the entire glass mineral fiber industry toward bio-based chemistries. Today phenol-formaldehyde (PF) based resins are largely a thing of the past with regard to glass volume mineral fiber based insulation products. Knauf has also launched a new business venture to assist other industries in accessing ECOSE Technology for their processes.

In a given year, using corn-based ECOSE Technology instead of phenol & formaldehyde avoids the equivalent of more than an estimated 100,000 barrels of oil in North America alone.

Lead green chemistry efforts

Following the launch of our ECOSE Technology in 2009, we had transformed all of our products and processes to this new technology. Using our bio-based ECOSE Technology has removed phenol and formaldehyde from our stack emissions. By 2012, the entire industry had followed our lead. This initiative not only established Knauf Insulation in a leadership position, but it had a transformative impact on our industry in general.

GLASS-BASED INSULATION INDUSTRY FORMALDEHYDE REDUCTION

% of zero binder

2009 2010 2011 2012

■ USE PRODUCTION ■ FORMALDEHYDE-FREE BINDER

Green Manufacturing Processes

1. Regenerative thermal oxidizers Knauf Insulation uses regenerative thermal oxidizers (RTO) to capture and recycle much of the energy we used to cure our products. RTO is equipment used for the treatment of exhaust air. Our ovens exhaust into a ceramic heat exchange media to capture and reuse the heat in the exhausted air. Therefore, the amount of energy required to cure our product is reduced substantially.

2. Recycling As you can see below, everything we do starts with recycling. Our plant uses as much as 80% recycled glass content. While our only option is to landfill our products at end of life, that doesn't stop us from encouraging consumers to recycle other products, particularly glass bottles.

REGENERATIVE THERMAL OXIDIZER AIRFLOW DIAGRAM

1. AIR HEAT EXCHANGER

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100. AIR HEAT EXCHANGER

Continuous Improvement

Continuous improvement is key to our sustainable development. Globally, our company maintains the following Bureau Veritas certifications: ISO 9000, 14000, and 50001. These certifications relate to quality management systems, energy management and environmental management efforts. For more information on our current continuous improvement efforts, please review the Knauf Insulation global sustainability report.

TRANSPORTATION

Leverage compression packaging

Glass is a high modulus material, which helps to facilitate