

PERFORMANCE DASHBOARD LCA & MATERIAL HEALTH RESULTS & INTERPRETATION

HOW WE MAKE IT GREENER

SM Transparency Catalog ► Knauf Insulation Showroom ► Earthwool® 1000°

Start a project

KNAU TUSULATION

Earthwool® 1000° Pipe Insulation

Knauf Insulation Earthwool 1000° pipe insulation is a molded, one-piece insulation made from inorganic glass mineral wool bonded with ECOSE® Technology. It is produced in 3' lengths with or without a factory-applied jacket. ASJ+ is the newest generation all-service jacket composed of aluminum foil, reinforced with a glass scrim bonded to a kraft paper interleaving, with an outer film layer. This jacket leaves no paper exposed, allowing for easier cleaning. Earthwool is the only glass mineral wool pipe insulation in the market that is formaldehyde-free.





Performance dashboard



Features & functionality

Excellent resistance to heat loss or gain, saving energy and lowering operating costs

Fast and easy installation reduces labor costs

ASJ+ facing is cleanable with a soapy wet cloth and has a self-sealing lap, which eliminates the need for additional material and tools

UL Environment validated formaldehyde-free

Visit Knauf for more product information

CSI MasterFormat® #MF 23 07 19

Thermal Insulation Guide Specification

For spec help, contact us or call 317 421 8727

Environment & materials

Improved by:

Utilization of recycled glass

Knauf's original plant-based ECOSE binder technology

Optimized compression packaging

Certification & rating systems:

Declare, Red List Free

UL GREENGUARD Gold certified

UL Validated recycled content & formaldehyde-free

Audited, European Certification Board for Mineral Wool Products exoneration process

See LCA, interpretation & rating systems

See materials, interpretation & rating systems

Declare.











SM Transparency Report™ + Material Health Overview™

LCA VERIFICATION 3rd party reviewed **✓** NSF

Transparency Report

3rd party verified

Material evaluation

NSF.

V **Self-declared**

Validity: 11/07/17 - 11/07/22 KNA - 11072017 - 004

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

NSF International

P.O Box 130140 789 N.Dixboro Road Ann Arbor, MI 48105, USA

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317 398 4434

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Earthwool® 1000°

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LCA & material health results & interpretation

Life cycle assessment

Scope and summary

○ Cradle to gate ○ Cradle to gate with options **② Cradle to grave**

Application

Used to insulate iron and copper piping in industrial applications and in commercial and institutional buildings. It is suitable for hot, cold, concealed, and exposed piping systems operating at temperatures from 0°F to 1000°F. Additional weather protection is needed outdoors.

Declared unit Reference service life: 60 years. 1 kg of insulation material, packaging

included, plus one square meter of facing over a period of 60 years.

Manufacturing data

Reporting period: October 2015 – September 2016 Location: Shelbyville, IN

Default installation and maintenance phase scenario At the installation site, insulation products are unpackaged and installed. No

material is lost or wasted because scraps are typically used to fill corners or

crevices. Packaging waste is sent to landfill, and no maintenance or replacement is required to achieve the product's life span.

What's causing the greatest impacts

The manufacturing stage dominates the results for all impact categories.

All life cycle stages

The raw material acquisition stage is the second highest contributor for most impact categories, but it is the third highest for ecotoxicity and fourth highest for non-carcinogenics. The impact of the raw material acquisition stage is mostly due to the borax, manganese oxide, and soda ash in the batch and the dextrose in the binder. The manufacturing stage shows major contributions to all impact categories. The contributions to outbound transportation are caused by the use of trucks and rail transport. For ecotoxicity, outbound transportation is the second highest contributor to the impacts. The landfilling of the discarded product contributes to the disposal stage. The only impacts associated with installation and maintenance are due to the disposal of packaging waste, which is a small contributor except for the non-carcinogenics impact category, where installation and maintenance is the second highest contributor to the results.

Manufacturing stage

largest contributor to the manufacturing stage for all impact categories. Sensitivity analysis

There are no sensitivity results that lead to variations greater than 10% in

The energy required to melt the glass and produce the glass fibers is the

the LCA results.

How we're making it greener

preserve natural resources.

 This product uses ECOSE® Technology, which is a plant-based binder adhesive instead of a fossil fuel based binder. ECOSE

Knauf is committed to providing products that conserve energy and

Technology represents a fossil fuel avoidance equivalent of 100,000 barrels of oil a year for Knauf products. • Earthwool® pipe is the only formaldehyde-free glass fiber pipe insulation available in the market today. • Our product contains a high degree of recycled content, which

translates to 20% less glass melting energy and a 25% reduction in

 Our utilization of recycled content reduces mining impacts by 60%. In fact, Knauf recycles 10 railcars of recycled glass a day.

Earthwool®'s glass is audited by a 3rd party to ensure biosoluble

chemistry from a health and safety standpoint.

See how we make it greener

INSTALLATION AND

2.99E-03 mPts

Transportation to

5.44E-04

1.15E-04

1.70E-01

4.23E-05

2.41E-03

1.20E-05

landfill and landfilling

MAINTENANCE

DISPOSAL/REUSE/

1.02E-02 mPts

Transportation to

3.63E-04

6.45E-05

1.01E-01

1.73E-04

3.86E-03

2.13E-05

2 points

landfill and landfilling

RECYCLING

TRANSPORATION

4.29E-03 mPts

transportation used

Truck and rail

7.04E-04

4.48E-05

5.37E-01

4.27E-05

1.21E-02

2.88E-04

embodied carbon.

LIFE CYCLE STAGE

LCA results

Information modules: Included Excluded*	A1 Raw Materials	A3 Manufacturing	A4 Transporation/ Delivery	A5 Construction/ Installation	C1 Deconstruction/ Demolition
*In the installation and maintenance phase, packaging waste in module A5 is the only	A2 Transportation			B1 Use	C2 Transporation
contributor to the potential impacts.				B2 Maintenance	C3 Waste Processing
				B3 Repair	C4 Disposal
				B4 Replacement	
				B5 Refurbishment	
				B6 Operational energy use	
				B7 Operational water use	

MANUFACTURING

RAW MATERIAL

2.33E-01 mPts

binder material

Batch material and

ACQUISITION

to total impacts in each life cycle stage

Materials or processes contributing >20%

Impacts per 60 years of service

Unit

kg CO₂ eq

 $kg PM_{2.5} eq$

kg O₃ eq

8

5.96E-03

5.98E-04

1.15E+00

4.00E-03

6.62E-02

TRACI v2.1 results per declared unit	ct.
LIFE CYCLE STAGE RAW MATERIAL MANUFACTURING TRANSPORTATION INSTALLATION AND DISPOS ACQUISITION RECYCL	_/REUSE/ IG

1.11E-02

7.29E-04

4.07E+00

4.09E-02

1.61E-01

5.46E-04

2.35E+00 mPts

Energy required to

melt the glass and

Acidification kg SO₂ eq Eutrophication kg N eq

Impact category

Global warming

Respiratory effects

Smog

Impact category

Ecological damage

Ozone depletion	kg CFC-11 eq	2.38E-10	1.30E-09	1.57E-11	1.11E-12	6.25E-12	
Human health damage							
Impact category	Unit						
Carcinogenics	CTU _h	3.23E-11	1.88E-10	7.49E-13	1.84E-11	6.13E-12	
Non-carcinogenics	CTU _h	1.64E-12	1.13E-11	3.33E-13	1.09E-11	3.27E-12	

Ecotoxicity CTU 2.77E-04

Additional environmental information

Unit

Fossil fuel depletion	MJ surplus	0	1.67E+00	5.25E+00	1.09E+00	1.89E-02	1.07E-01
See the additional EPD of	content requirec	d by t	the UL Environment PC	CR on page 4 of the Tra	insparency Report PDF	:	

LCA Background Report The intent is to reward project teams for selecting products from Knauf Insulation Products LCA Background Report (public version), Knauf manufacturers who have verified improved life-cycle environmental 2017

References

Fredholm Murphy.

Download PDF SM Transparency Report/Material Health Overview, which includes the additional EPD content required by the UL Environment PCR.

limitations of comparability more understandable. TRs/EPDs of products that conform to the same PCR and include the same life cycle stages, but are made by different manufacturers, may not sufficiently align to support direct comparisons. They therefore, cannot be used as comparative assertions unless the conditions defined in ISO 14025 Section 6.7.2. 'Requirements for Comparability' are satisfied.

ULE PCR for Building Envelope Thermal Insulation and Mechanical PCR review conducted by Wayne Trusty, Andre Desjarlais, and Susan

SM Transparency Reports (TR) are ISO 14025 Type III environmental declarations (EPD) that enable purchasers and users to compare the potential environmental performance of products on a life cycle basis. They are designed to present information transparently to make the

Building product disclosure and optimization **Environmental product declarations**

Rating systems

performance.

Industry-wide (generic) EPD ½ product ✓ Product-specific Type III EPD 1 product

Green Globes for New Construction and Sustainable Interiors Materials and resources

LEED BD+C: New Construction | v4 - LEED v4

C 3.5.2.2 and SI 4.1.2 Path B: Prescriptive Path for Interior Fit-outs Collaborative for High Performance Schools National Criteria

NC 3.5.1.2 Path B: Prescriptive Path for Building Core and Shell

▼ Third-party certified type III EPD

MW 7.1 – Environmental Product Declarations



3rd party verified

Validity: 11/07/17 - 11/07/22 KNA - 11072017 - 004

Self-declared

This declaration was independently **VERIFICATION LCA** verified by NSF to the UL **✓** NSF. 3rd party reviewed **Environment PCR and ISO 14025.**

SM Transparency Report™ + Material Health Overview™

Material evaluation

Transparency Report

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LCA & material health results & interpretation

Material health

Evaluation programs

Declare

Declare labels are issued to products disclosing ingredient inventory, sourcing and end of life options. Declare labels are based on the Manufacturers Guide to Declare, administered by the International Living Future Institute.

How it works

Material ingredients are inventoried and screened against the Living Building Challenge (LBC) Red List which represents the 'worst in class' materials, chemicals, and elements known to pose serious risks to human health and the greater ecosystem.

The Health Product Declaration®

The HPD Open Standard provides a consistent, and transparent format to accurately disclose the material contents and associated hazard classifications for a building product.

How it works

Material ingredients are screened and categorized according to the hazards that international governmental bodies and toxicology experts have associated with them, based on two listings:

- Authoritative lists maintained or recognized by government bodies
- Screening lists, which include chemicals that government bodies determined need further scrutiny, as well as chemical lists not recognized by any government body.

Assessment scope and results

Declare™

Inventory threshold: 100 ppm

Declare level:

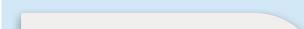
The Declare product database and label are used to select products that meet the LBC's stringent materials requirements. streamlining the materials specification and certification process.

LBC Red List Free ? LBC Compliant ? Declared ?



Earthwool® Pipe Insulation Unfaced

Click the label to see the full declaration.

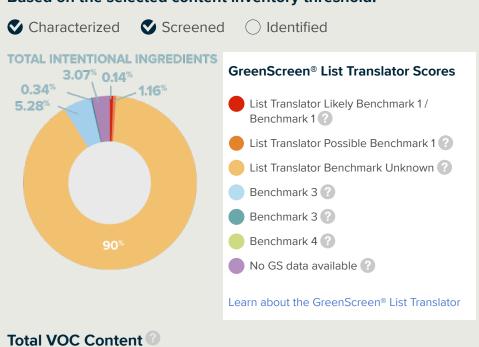




Health Product Declaration® Earthwool® Pipe Insulation with ASJ+

Inventory threshold: 100 ppm

Full disclosure known hazards: Yes Based on the selected content inventory threshold:



VOC Content data is not applicable for this product category.

Declare

References

Earthwool® Pipe Insulation Unfaced

Manufacturer's Guide to Declare

A comprehensive guide providing information about the program, the

assessment methodology, how to submit material data to obtain a Declare label and how they are used to meet the Health & Happiness and Materials Petals of the Living Building Challenge. **Health Product Declaration®**

Earthwool® 1000° Pipe Insulation with ASJ+

Health Product Declaration Open Standard v2.1

The standard provides guidance to accurately disclose the material contents of a building product using a standard, consistent, and transparent format.

What's in this product and why

Declare level

Earthwool® Pipe without a facer is Red List free. The Red List is a list of chemicals that are not allowed in Living Building Challenge buildings. Being Red List free is our design benchmark at Knauf.

Earthwool utilizes a bio-based binder chemistry derived from corn that is formaldehyde-free (FF) and more interior friendly than phenolformaldehyde (P/F) systems. It is the only FF glass fiber pipe insulation in the marketplace today.

What's in the product and why The ingredients of most Earthwool Pipe variants avoid the 800+

chemicals of the Living Building Challenge Red List. This is primarily because of its bio-based binder adhesive chemistry known as ECOSE® Technology. ECOSE is based on dextrose or high fructose corn syrup instead of phenol and formaldehyde. Dextrose and fructose can be used interchangeably. The ECOSE binder allows the product to be validated by the UL Environment as formaldehyde-free. Formaldehyde is a Red List chemical.

Earthwool Pipe Insulation with the ASJ+ facer does not meet Red List free status because the facer contains a halogenated fire retardant (HFR). This is why we disclose the ingredients in an HPD rather than Declare used for the unfaced variant.

Red List free is our development benchmark and we constantly challenge

ourselves on elimination of Red List chemicals. An HFR is used on the ASJ+ variant because the product is for exposed applications and must meet stringent fire performance requirements. We are very aware of the concerns associated with HFRs and continually work with vendors on this issue. At the same time, fire performance is critical and current events relating to fire performance of building materials only support the importance of fire-safe products. materials, but we will one day find a solution.

What's been done in the design and manufacture in consideration of the potential human health impacts in the use stage Knauf led the industry in bio-based development to avoid phenol and formaldehyde in our processes beginning in 2008. This development was likely the largest green chemistry disruption of our era. Today, our competitors have followed or are striving to meet this benchmark.

The primary ingredient in this product is recycled glass. While recycled

content may vary from year to year, the recycled content is currently greater than 60% by weight. The second largest content is silica sand which is sourced as locally as possible. The third largest ingredient is cornbased syrup (dextrose or fructose). As a result of using plant-based binders, the VOC profile of this product is very interior friendly. The emission from our factories is also much better for our communities.

We ensure our glass formulations have no serious health concerns by allowing our processes to be audited to meet European Certification Board for Mineral Wool Products (EUCEB) biosolubility requirements.

At this time, the product is landfilled at end of life. We take extended

Where it goes at the end of its life

producer responsibility very seriously and have active programs to address end of life. There is no option other than landfills at this time.

Knauf engages very closely with its vendors to eliminate and avoid

How we're making it healthier

chemicals of concern. No competitor has as many Red List free products as Knauf Insulation. We continually reduce our environmental impacts through recycled content and optimize our products by designing them to be transformative.

See how we make it greener

LEED BD+C: New Construction | v4 - LEED v4

Rating systems

Building product disclosure and optimization **Material Ingredients**

Credit value options 1. Reporting 2. Optimization

3. Supply Chain Optimization

1 product each

Living Building Challenge 3.0 Materials petals imperatives

Well Building Standard®

◊ 10. Red List Free ○ 12. Responsible Industry ○ 13. Living Economy Sourcing

Air and Mind Features Air, 26. Enhanced Material Safety

Mind. 97. Material Transparency

Mind, 98. Organizational Transparency Collaborative for High Performance Schools National Criteria

MW 10.1 — Building Product Health Related Information Reporting Product Health Related Information Report 1 point



Self-declared

Material evaluation The material health evaluation is The material health evaluation is self-declared and done in self-declared and done in

SM Transparency Report™ + Material Health Overview™

KNA - 11072017 - 004

accordance with the HPD Open Standard 2.1 **HPD Collaborative**

401 Edgewater Place, Suite 600 Wakefield, MA 01880 781.876.8871

accordance with the Manufacturers **Guide to Declare. International Living Future Institute**

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How we make it greener

Transparency Report

See LCA results by life cycle stage

Earthwool® 1000°

RAW MATERIAL ACQUISITION



Collapse all

Utilize recycled content

Our plants use 60 – 80% recycled 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 on an annual basis, which is equal to 15,000 acres. While growing our own corn is not currently part of the life cycle assessment of our products in North America, we have the potential of growing the very corn that we use in our products. Life cycle analysis suggests about a 9% reduction in our manufacturing operation from the sequestration impacts of the corn growth cycle. If that corn and stubble were completely used in our ECOSE formulation, then corn absorption of carbon might be a plausible approach to help meet the zero carbon goals of our company.





MANUFACTURING

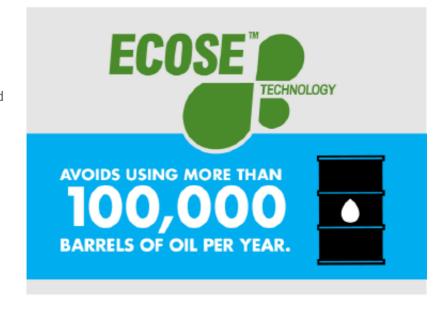
In 2008, Knauf Insulation launched perhaps the nation's largest

Develop bio-based formaldehyde-free binder

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 large 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.

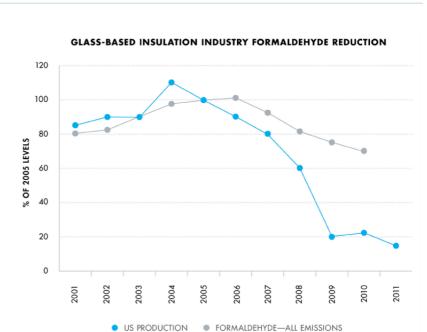
phenol & formaldehyde avoids the equivalent of more than 100,000 barrels of oil in North America alone.

In a given year, using corn-based ECOSE Technology instead of



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.

Following the launch of our ECOSE Technology in 2009, we had



regenerative thermal oxidizers (RTO) to capture and recycle

Green manufacturing Processes

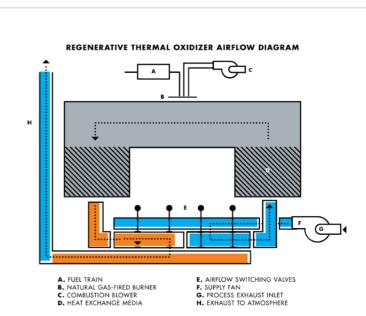
Lead green chemistry efforts

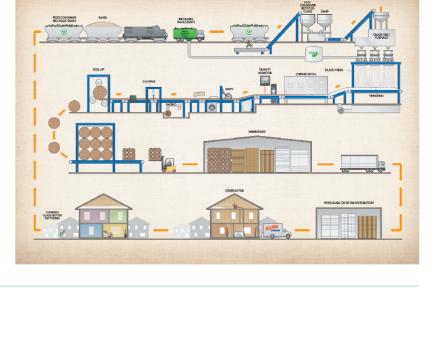
much of the energy we used to cure our products. RTO is equipment used for the treatment of exhaust air. Our ovens exhaust into a ceramic heat exchange media to capture and reuse the heat in the exhausted air. Therefore, the amount of energy required to cure our product is reduced substantially. 2. Recycling As you can see below, everything we do starts with recycling. Our plant uses as much as 80% recycled content.

1. Regenerative thermal oxidizers Knauf Insulation uses

doesn't stop us from encouraging consumers to recycle other products, particularly glass bottles.

While our only option is to landfill our products at end of life, that





relate to quality management systems, energy management and environmental management efforts. For more information on our

Continuous Improvement

current continuous improvement efforts, please review the Knauf Insulation global sustainability report. TRANSPORTATION Leverage compression packaging

Continuous improvement is key to our sustainable development. Globally, our company maintains the following Bureau Veritas certifications: ISO 9000, 14000, and 50001. These certifications



compression packaging. We compress our insulation to fit up to five times more product on every truck. This compression means:

insulation materials

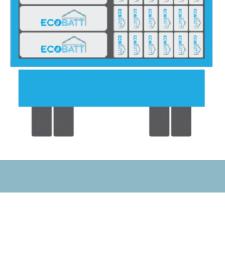
 Fewer packages on a job Fewer deliveries needed

More material can fit on one truck when compared to other

Glass is a high modulus material, which helps to facilitate



WE COMPRESS OUR



ECOBATT

ECOBATT

ECOBATT

ECOBATT

insulation made from glass fibers was required on all packaging. Following forty years of research, glass mineral wool has been exonerated entirely. Glass mineral wool is comprised of fibers

INSTALLATION AND MAINTENANCE



in a short period of time and exit the body with normal bodily functions. The scrutiny glass mineral wool has undergone is now

Be confident in glass mineral wool's safety

In the past, a label regarding the carcinogenic potential of

seen as proof of its safety. Meet and exceed green standards **GREENGUARD** certified On the forefront of indoor air quality, Knauf Insulation was the first GREENGUARD certified product in 2002. This achievement led us to understand the impact our formaldehyde-free products could have on the indoor

environment. Today, we have the largest offering of interior

friendly products available in the mineral fiber market, meeting

the GREENGUARD Gold designation. The formaldehyde-free

claim is third party validated by UL Environment.

that are biosoluble, meaning that the fibers dissolve in the body

Red List Free Since 2012, Knauf Insulation North America has used the Living Building Challenge (LBC) Red List as our developmental benchmark. The Red List is a list of chemicals that are avoided in material imperative for the construction of LBC buildings. Formaldehyde is just one of about 800 chemicals on the Red List. Today, no other insulation company comes close to the sustainable development achieved by Knauf in this regard.

Our products offer a vast array of potential credits for major

Visit the green building rating systems page to see all the

International Green Construction Code, Green Guide for Heath

green building rating systems, including: WELL, LEED v4,

Care, NAHB Green Building Standard and more.

guarantees the formulations are biosoluble and pose no serious health concerns. While competing insulation technologies other than glass and rock fiber might claim they are safer, the reality is that they have not been tested. We consider the scrutiny once given our technology to be a differentiator.

Green building rating system credits

Find out all the credits you can

earn with Knauf products.

Learn more

EUCEB tested Glass fiber is perhaps the most widely studied

formulations are voluntarily third-party audited for compliance

rock based fiber through the European Certification Board for

building material available today. All of our processes and

with the health and safety exoneration criteria for glass and

Mineral Wool Products (EUCEB) exoneration process. This

credits you can earn using Knauf Insulation products.

Green building rating systems

Promote Recycling

Knauf is a recycling advocate. We take every opportunity to advocate for recycling and financially support the Glass Recycling Coalition (GRC). We feel that a comprehensive

understanding of the benefits of recycling will lead to greater recycling adoption and more promotion by state and local

governments. 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.





DISPOSAL



MEMBER



Self-declared

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

NSF International

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SM Transparency Report™ + Material Health Overview™

NSF. Material evaluation Ø

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KNA - 11072017 - 004

Validity: 11/07/17 - 11/07/22

Transparency Report







Additional EPD content required by: ULE PCR for Building Envelope Thermal Insulation and Mechanical Insulation

Earthwool Pipe

Environmental parameters derived from LCA per functional unit

Total material resources

Sustainable Minds®

Transparency Report

Parameter	Unit	Total
Non-renewable material resources	kg	9.00
Renewable material resources	kg	33.6

Total primary energy

Parameter	Unit	Total
Non-renewable, fossil	MJ	17.0
Non-renewable, coal	MJ	25.8
Non-renewable, natural gas	MJ	36.5
Non-renewable, uranium	MJ	8.83
Renewable, biomass	MJ	0.0444
Renewable, geothermal	MJ	0.0222
Renewable, hydro power	MJ	1.49
Renewable, solar power	MJ	13.1
Renewable, wind power	MJ	0.635

Total water

Parameter	Unit	Total
Fresh water	L	2944

Waste

Parameter	Unit	Total
Non hazardous waste	kg	1.37
Hazardous waste	kg	0
Waste to energy	kg	0

Scenarios and additional technical information

PARAMETER	VALUE	UNIT			
Transport to the building site [A4]					
Average distance from Shelbyville to installation site	680	mi			
Capacity utilization by mass	27	%			
Installation into the building [A5]					
Distance from installation site to landfill	100	mi			
Disposal/reuse/recycling [C1-C4]					
Distance from installation site to landfill	100	mi			

TRACI v2.0 acidification results per functional unit

Parameter	Unit	Raw material acquisition	Manufacturing	Transportation	Installation and maintenance	Disposal/reuse/recycling
Acidification, TRACI 2.0	mole H+ eq	3.01E-01	5.84E-01	3.78E-02	2.80E-02	1.91E-02

*

SM Transparency Report™+ Material Health Overview™

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