



CAFCO® 400 CAFCO® 400 AC

The CAFCO® 400 series products are medium density, wet mix Spray-Applied Fire Resistive Materials (SFRM) designed to provide fire protection for structural steel where higher levels of physical abuse or traffic may be anticipated. CAFCO 400 series products are designed to provide protection in virtually any environment where a medium density material is specified.

The thermal performance advantages of CAFCO 400 series products result in reduced installed costs and provide industry leading physical performance and application efficiencies that are unsurpassed.



Performance dashboard

Features & functionality

CAFCO 400: Portland Cement based medium density product with Industry leading physical performance characteristics.

CAFCO 400 AC: Gypsum Plaster based formulation designed to increase productivity while maintaining robust physical performance characteristics.

Visit Isolatek for more product information:
[CAFCO 400](#), [CAFCO 400 AC](#)

Environment & materials

Improved by:

Tested to meet (CDPH) Standard Method v1.1 & EPA Method 24 for VOC's

Post-consumer recycled content used

Certifications, rating systems & disclosures:

Declare, Red List Free ([CAFCO® 400](#), [CAFCO® 400 AC](#))

Health Product Declaration ([CAFCO® 400](#), [CAFCO® 400 AC](#))

Cellulosic – ANSI/UL263 (ASTM E119) – Fire Tests of Building Construction and Materials

UL Classification Mark

Further explanatory materials may be obtained from:
Sustainable Minds

MasterFormat® 07 81 00
[CAFCO SFRM Guide Spec](#)
For spec help, [contact us](#) or call 800-631-9600

[See LCA, interpretation & rating systems](#)

[See materials, interpretation & rating systems](#)



SM Transparency Report (EPD)™ + Material Health Overview™

VERIFICATION

LCA

3rd-party reviewed



Transparency Report (EPD)

3rd-party verified



Validity: 08/12/25 – 08/11/30
ISL – 08122025 – 002

MATERIAL HEALTH

Material evaluation

Self-declared



This environmental product declaration (EPD) was externally verified by Jack Geibig (Ecoform) according to ISO 21930:2017; ISO 14025:2006; Smart EPD Part A; and Smart EPD Part B for spray-applied fire-resistive materials (SFRM).

In accordance with ISO 14044 and the reference PCR, this life cycle assessment was conducted by Sustainable Minds and reviewed by [Reviewer Name] (Ecoform).

Ecoform, LLC
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Knoxville, TN 37932
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www.ecoform.com



SUMMARY

Reference PCR

Smart EPD® Part B PCR for Spray-Applied Fire-Resistive Materials, 1000-003, v4.0, 01/25 – 01/30

System boundaries

Cradle to gate (A1 – A3) with installation (A4, A5)

Market of applicability

North America

Declared unit: 1,000 kg

LCIA methodology: GWP 100 IPCC 2021 (AR6), TRACI 2.2

LCA software; LCI database

SimaPro Craft 10.2; ecoinvent 3.11, US-EI 2.2

LCA conducted by: Sustainable Minds

Public LCA:

LCA of Isolatek Passive Fire Protection Products

EPD holder:

Isolatek International

Isolatek International
14231 Seaway Rd., Suite 1003
Gulfport, MS 3950
www.isolatek.com
800 631 9600

Contact us

LCA results & interpretation

CAFCO® 400 Series

CAFCO® 400	CAFCO® 400 AC	EPD additional content	Material health
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Scope and summary

- Cradle to gate Cradle to gate with options Cradle to grave

Application

The CAFCO 400 is a Portland cement based, wet mix, medium density Spray-Applied Fire Resistant Materials (SFRMs) designed to provide fire protection for structural steel where higher levels of physical abuse or traffic may be anticipated. The durable surface and Portland cement-based formulation make it well suited for applications in either unconditioned or conditioned areas.

Declared unit

1,000 kg of spray-applied fire-resistant material, packaging included.

Manufacturing activities

Products are manufactured by blending the specified bulking agent with a number of product-specific binders to achieve prescribed fire rating performance in the field. Finished goods are packaged in individual bags, stacked on pallets, and stretch wrapped before delivery to job sites.

Manufacturing data

Reporting period: January 2024 – December 2024

Locations: San Bernardino, CA; Stanhope, NJ; and Houston, TX

Distribution and installation scenarios

The product belongs to the CAFCO 400 SFRM subcategory, as the product density falls within the range of 20–35 pcf (320–561 kg/m³). Distribution from the manufacturing facility to the construction site is assumed to be 500 km (311 miles) using a single unit truck with an empty backhaul. 1,398 m³ of water and 7.3 kWh of electricity is assumed to be consumed during installation.

No gasoline or diesel-powered equipment is assumed to be used during installation. Therefore, the net calorific value (i.e., Lower Heating Value, LHV) of fuels is considered to be zero in A5.

What's causing the greatest impacts

All life cycle stages

The environmental impacts are primarily driven by the raw material supply phase. The raw material extraction and upstream processing stage dominates across all impact categories except for the non-carcinogens category. Following this, the raw material transportation, manufacturing, and transport to the building site phases contribute comparable levels of impact. The installation stage results in the lowest overall impacts.

Raw material supply

The raw material supply phase is the most significant contributor, accounting for over 70% of the total global warming potential under both the IPCC AR6 and TRACI 2.2 methodologies. This impact is largely driven by the use of Portland cement, which alone accounts for about 80% of CO₂-equivalent emissions within this phase. Raw material supply is also the dominant contributor accounting for 60–80% of the total impacts in most categories, with the exception of non-carcinogens.

Transport to factory

The transport to factory phase makes a significant contribution to the non-carcinogens category, particularly for products manufactured at the San Bernardino, CA and Houston, TX plants. In contrast, for products manufactured at the Stanhope, NJ facility, transportation to the building site has a higher impact in this category compared to transport to the factory. The primary driver of non-carcinogenic effects during this phase is the inbound transport of raw materials, which leads to emissions of nitrogen oxides (NO_x) and particulate matter, both known to cause potential non-carcinogenic health effects.

Manufacturing and transport to building site

The manufacturing and transport to building site phases contribute similarly to results. For global warming potential, their impacts range between 4% and 8%.

Installation

The installation phase has a minimal overall impact. Its contribution to global warming potential ranges between 3% and 4%. Among all other impact categories, A5 has an even lower contribution.

Embodied carbon

Embodied carbon can be defined as the cradle-to-gate (A1-A3) IPCC_{total} global warming potential impacts. The embodied carbon per declared unit of CAFCO® 400 is 7.95E+02 kg CO₂-eq for San Bernardino, 7.48E+02 kg CO₂-eq for Stanhope, and 7.68E+02 kg CO₂-eq for Houston.

How we're making it greener

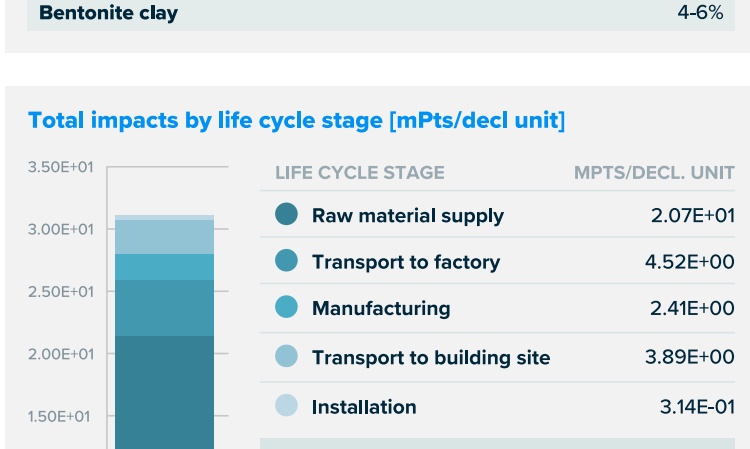
Isolatek International is committed to legal compliance and ethical business practices in all of our operations. Isolatek's vendors must act in accordance with the applicable statutory and international standards regarding environmental protection. Isolatek's vendors must minimize environmental pollution and make continuous improvements in environmental protection.

Isolatek's vendors must set up or use a reasonable environmental management system. In Isolatek's purchase arrangements, vendors must observe all applicable laws of their country and international standards, including but not limited to laws and standards relating to the environment, as well as health and safety.

[See how we make it greener](#)

Material composition by wt%

PART	WT%
Natural gypsum, w/o flue gas desulfurization gypsum	55-65%
Natural unexpanded vermiculite	20-30%
Calcium carbonate	5-10%
Recycled content (cellulose)	0-7%
Bentonite clay	4-6%



LCA results

LIFE CYCLE STAGE	RAW MATERIAL SUPPLY	TRANSPORTATION	MANUFACTURING	TRANSPORTATION	INSTALLATION
	(X) A1 Raw Material extraction and upstream processing	(X) A2 Transport to factory	(X) A3 Manufacturing	(X) A4 Transport to building site	(X) A5 Installation
Information modules:					
Included (X) Excluded (MND)*					
*Modules B, C, and D are excluded.					



SM Single Score [Learn about SM Single Score results](#)

A variation of 10 to 20% | A variation greater than 20%

Impacts per declared unit	2.07E+01 mPts	4.52E+00 mPts	2.41E+00 mPts	3.89E+00 mPts	3.14E-01 mPts
Materials or processes contributing >20% to total impacts in each life cycle stage	Raw extraction and upstream manufacturing.	Truck and rail transportation used to transport raw materials to manufacturing site.	Energy and ancillary materials required to make the passive fire protection product.	Truck and rail transportation used to transport finished products to construction site.	Energy and water used for installation.

TRACI v2.2 results per declared unit - CAFCO® 400 produced in San Bernardino, CA

LIFE CYCLE STAGE	A1 RAW MATERIAL SUPPLY	A2 TRANSPORT	A3 MANUFACTURING	A4 TRANSPORT TO BUILDING SITE	A5 INSTALLATION
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Ecological damage

Impact category	Unit	A1	A2	A3	A4	A5
GWP, IPCC _{total}	kg CO ₂ eq	5.52E+02	1.08E+02	3.21E+01	5.69E+01	2.70E+01
GWP, IPCC _{Biogenic}	kg CO ₂ eq	-8.64E+01	0.00E+00	-2.22E+01	0.00E+00	2.22E+01
GWP, IPCC _{Fossil}	kg CO ₂ eq	6.39E+02	1.08E+02	5.43E+01	5.69E+01	4.85E+00
GWP, IPCC _{Luluc}	kg CO ₂ eq	1.04E-01	5.70E-03	4.07E-02	3.02E-03	3.46E-03
GWP, TRACI _{total}	kg CO ₂ eq	5.49E+02	1.06E+02	3.11E+01	5.62E+01	3.11E+01
GWP, TRACI _{Biogenic}	kg CO ₂ eq	-8.64E+01	0.00E+00	-2.22E+01	0.00E+00	2.22E+01
GWP, TRACI _{Fossil}	kg CO ₂ eq	6.36E+02	1.06E+02	5.33E+01	5.62E+01	8.96E+00
Ozone depletion	kg CFC-11 eq	2.31E-06	1.45E-06	1.03E-06	7.66E-07	2.07E-08
Acidification	kg SO ₂ eq	1.18E-06	4.11E-08	6.62E-08	2.19E-08	1.94E-08
Marine eutrophication	kg N eq	3.89E-01	8.67E-02	1.87E-02	4.40E-02	1.85E-03
Freshwater eutrophication	kg P eq	3.41E-03	3.37E-04	8.50E-04	1.80E-04	2.04E-04

Human health damage

Impact category	Unit	A1	A2	A3	A4	A5
Smog	kg O ₃ eq	2.46E+00	3.79E-01	1.33E-01	1.94E-01	1.48E-02
Respiratory effects	kg PM _{2.5} eq	2.89E-05	1.62E-05	1.89E-06	8.66E-06	3.61E-07

Additional environmental information

Impact category	Unit	A1	A2	A3	A4	A5
Carcinogenics	CTU _h	4.47E+01	1.03E+01	2.10E+00	5.24E+00	1.76E-01
Non-carcinogenics	CTU _h	6.65E+01	3.35E+02	8.19E+00	1.79E+02	1.10E+00
Ecotoxicity	CTU _e	2.82E-01	4.40E-02	1.54E-02	2.31E-02	1.04E-02

TRACI v2.2 results per declared unit - CAFCO® 400 produced in Stanhope, NJ

LIFE CYCLE STAGE	A1 RAW MATERIAL SUPPLY	A2 TRANSPORT	A3 MANUFACTURING	A4 TRANSPORT TO BUILDING SITE	A5 INSTALLATION
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Ecological damage

Impact category	Unit	A1	A2	A3	A4	A5
GWP, IPCC _{total}	kg CO ₂ eq	6.57E+02	2.49E+01	4.75E+01	5.69E+01	2.71E+01
GWP, IPCC _{Biogenic}	kg CO ₂ eq	-1.39E+00	0.00E+00	-2.22E+01	0.00E+00	2.22E+01
GWP, IPCC _{Fossil}	kg CO ₂ eq	6.58E+02	2.49E+01	6.97E+01	5.69E+01	4.85E+00
GWP, IPCC _{Luluc}	kg CO ₂ eq	1.11E-01	1.31E-03	4.15E-02	3.02E-03	3.47E-03
GWP, TRACI _{total}	kg CO ₂ eq	6.54E+02	2.46E+01	4.63E+01	5.62E+01	3.12E+01
GWP, TRACI _{Biogenic}	kg CO ₂ eq	-1.39E+00	0.00E+00	-2.22E+01	0.00E+00	2.22E+01
GWP, TRACI _{Fossil}	kg CO ₂ eq	6.55E+02	2.46E+01	6.85E+01	5.62E+01	8.98E+00
Ozone depletion	kg CFC-11 eq	2.46E-06	3.35E-07	2.16E-06	7.66E-07	2.07E-08
Acidification	kg SO ₂ eq	1.20E-06	9.41E-09	7.53E-08	2.19E-08	1.94E-08
Marine eutrophication	kg N eq	4.09E-01	2.07E-02	2.30E-02	4.40E-02	1.85E-03
Freshwater eutrophication	kg P eq	3.57E-03	7.71E-05	9.39E-04	1.80E-04	2.04E-04

Human health damage

Impact category	Unit	A1	A2	A3	A4	A5
Smog	kg O ₃ eq	2.61E+00	8.96E-02	1.55E-01	1.94E-01	1.48E-02
Respiratory effects	kg PM _{2.5} eq	2.99E-05	3.70E-06	1.93E-06	8.66E-06	3.61E-07

Additional environmental information

Impact category	Unit	A1	A2	A3	A4	A5
Carcinogenics	CTU _h	4.71E+01	2.46E+00	2.59E+00	5.24E+00	1.76E-01
Non-carcinogenics	CTU _h	6.95E+01	7.65E+01	9.01E+00	1.79E+02	1.11E+00
Ecotoxicity	CTU _e	2.98E-01	1.02E-02	1.66E-02	2.31E-02	1.04E-02

TRACI v2.2 results per declared unit - CAFCO® 400 produced in Houston, TX

LIFE CYCLE STAGE	A1 RAW MATERIAL SUPPLY	A2 TRANSPORT	A3 MANUFACTURING	A4 TRANSPORT TO BUILDING SITE	A5 INSTALLATION
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Ecological damage

Impact category	Unit	A1	A2	A3	A4	A5
GWP, IPCC _{total}	kg CO ₂ eq	5.70E+02	6.72E+01	4.43E+01	5.69E+01	2.75E+01
GWP, IPCC _{Biogenic}	kg CO ₂ eq	-6.83E+01	0.00E+00	-2.26E+01	0.00E+00	2.26E+01
GWP, IPCC _{Fossil}	kg CO ₂ eq	6.39E+02	6.72E+01	6.69E+01	5.69E+01	4.85E+00
GWP, IPCC _{Luluc}	kg CO ₂ eq	1.05E-01	3.49E-03	4.20E-02	3.02E-03	3.47E-03
GWP, TRACI _{total}	kg CO ₂ eq	5.67E+02	6.63E+01	4.32E+01	5.62E+01	3.12E+01
GWP, TRACI _{Biogenic}	kg CO ₂ eq	-6.83E+01	0.00E+00	-2.26E+01	0.00E+00	2.26E+01
GWP, TRACI _{Fossil}	kg CO ₂ eq	6.36E+02	6.63E+01	6.58E+01	5.62E+01	9.05E+00
Ozone depletion	kg CFC-11 eq	2.36E-06	9.03E-07	1.13E-06	7.66E-07	2.08E-08
Acidification	kg SO ₂ eq	1.18E-06	2.47E-08	7.41E-08	2.19E-08	1.95E-08
Marine eutrophication	kg N eq	3.86E-01	6.12E-02	2.21E-02	4.40E-02	1.86E-03
Freshwater eutrophication	kg P eq	3.39E-03	2.01E-04	1.01E-03	1.80E-04	2.05E-04

Human health damage

Impact category	Unit	A1	A2	A3	A4	A5
Smog	kg O ₃ eq	2.44E+00	2.60E-01	1.53E-01	1.94E-01	1.48E-02
Respiratory effects	kg PM _{2.5} eq	2.87E-05	9.62E-06	1.90E-06	8.66E-06	3.63E-07

Additional environmental information

Impact category	Unit	A1	A2	A3	A4	A5
Carcinogenics	CTU _h	4.45E+01	7.29E+00	2.49E+00	5.24E+00	1.77E-01
Non-carcinogenics	CTU _h	6.63E+01	1.99E+02	8.69E+00	1.79E+02	1.11E+00
Ecotoxicity	CTU _e	2.81E-01	2.79E-02	1.59E-02	2.31E-02	1.04E-02

Comparisons cannot be made between product-specific or industry average EPDs at the design stage of a project, before a building or construction works has been specified. Comparisons may be made between product-specific or industry average EPDs at the time of product purchase only when product or construction works performance and specifications have been established and serve as a functional unit for comparison. Environmental impact results shall be converted to a functional unit basis before any comparison is attempted. Any comparison of EPDs shall be subject to the requirements of ISO 21930 or EN 15804. EPDs are not comparative assertions and are either not comparable or have limited comparability when they have different system boundaries, are based on different product category rules or are missing relevant environmental impacts. Such comparisons can be inaccurate and could lead to erroneous selection of materials or products that are higher-impact, at least in some impact categories.

References

LCA Background Report
LCA of Isolatek International Passive Fire Protection Products (public version), Isolatek 2025. Developed using the TRACI v2.2, IPCC 2021 AR6, CML, and Computed Energy Demand (LHV) impact assessment methodologies, SimaPro Craft 10.2 software, and ecoinvent v3.11 database.

ISO 14025, "Sustainability in buildings and civil engineering works -- Core rules for environmental product declarations of construction products and services"

ISO 21930:2007, "Sustainability in Building Construction -- Environmental Declaration of Building Products" serves as the core PCR.

Smart EPD Part A product category rules for building and construction products and services; Version 1.2, March 2025. PCR review conducted by Jack Geibig (chair, jgeibig@ecoform.com); Terrie Boguski; and Hugues Imbeault-Tétreault.

Smart EPD Part B product category rules for spray-applied fire-resistant materials (SFRM); Version 4.0, January 2025. PCR review conducted by Thomas Gloria, PhD (chair, t.gloria@industrial-ecology.com); Karl Houser; and Jack Geibig.

Smart EPD General Program Instructions

Download PDF SM Transparency Report/ EPD

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 limitations of comparability more understandable. Environmental declarations 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 as defined in ISO 14025 Section 6.7.2.

"Certainties for Comparability" are varied. In order to support comparative assertions, this EPD meets all comparability requirements stated in ISO 14025:2006. However, differences in certain assumptions, data quality, and variability between LCA data sets may still exist. Example of variations: Different LCA software and background LCI datasets may lead to differences in results upstream or downstream of the life cycle stages declared. EPDs are only comparable if they conform with ISO 21930, this sub-category PCR, include all relevant information modules and are based on equivalent scenarios with respect to the construction works context. Some LCA impact categories and the science supporting this additional environmental information is still under development and may have high levels of uncertainty that preclude international acceptance pending further development. Use caution when interpreting data in this category. To promote uniform guidance on the data collection, calculation, and reporting of results, the ACLCA methodology (ACLCA 2019) was used. The environmental impact results of products in this document are based on a declared unit and therefore do not provide sufficient information to establish comparisons. The results shall not be used for comparisons without knowledge of how the physical properties of the product impact the precise function at the construction level. The environmental impact results shall not be converted to a functional unit basis before any comparison is attempted. A manufacturer shall not make claims based on an industry-average EPD which leads the market to believe the industry-average is representative of manufacturer-specific or product-specific results.

Rating systems

The intent is to reward project teams for selecting products from manufacturers who have verified improved life-cycle environmental performance.

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

Building product disclosure and optimization

Environmental product declarations

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

LCA results & interpretation

CAFCO® 400 Series

- CAFCO® 400
- CAFCO® 400 AC**
- EPD additional content
- Material health

Scope and summary

- Cradle to gate
- Cradle to gate with options**
- Cradle to grave

Application

The CAFCO® 400 AC is a gypsum plaster based, wet mix, medium density Spray-Applied Fire Resistive Materials (SFRMs) designed to increase productivity while maintaining robust physical performance characteristics. The durable surface and formulation make it well suited for applications in either unconditioned or conditioned areas.

Declared unit

1,000 kg of spray-applied fire-resistive material, packaging included.

Manufacturing activities

Products are manufactured by blending the specified bulking agent with a number of product-specific binders to achieve prescribed fire rating performance in the field. Finished goods are packaged in individual bags, stacked on pallets, and stretch wrapped before delivery to job sites.

Manufacturing data

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No gasoline or diesel-powered equipment is assumed to be used during installation. Therefore, the net calorific value (i.e., Lower Heating Value, LHV) of fuels is considered to be zero in A5.

What's causing the greatest impacts

All life cycle stages

The environmental impacts are primarily driven by the raw material supply phase. The raw material extraction and upstream processing stage dominates across all impact categories except for the non-carcinogens category. Following this, the raw material transportation, manufacturing, and transport to the building site phases contribute comparable levels of impact. The installation stage results in the lowest overall impacts.

Raw material supply

The raw material supply phase is the most significant contributor, accounting for approximately 60% of the total global warming potential under both the IPCC AR6 and TRACI 2.2 methodologies. This impact is largely driven by the use of gypsum plaster, which alone accounts for about 60% of CO₂-equivalent emissions within this phase. Raw material supply is also the dominant contributor accounting for 40–90% of the total impacts in most categories, with the exception of non-carcinogens.

Transport to factory

The transport to factory phase makes a significant contribution to the non-carcinogens category, particularly for products manufactured at the San Bernardino, CA and Houston, TX plants. In contrast, for products manufactured at the Stanhope, NJ facility, transportation to the building site has a higher impact in this category compared to transport to the factory. The primary driver of non-carcinogenic effects during this phase is the inbound transport of raw materials, which leads to emissions of nitrogen oxides (NO_x) and particulate matter, both known to cause potential non-carcinogenic health effects.

Manufacturing and transport to building site

The manufacturing and transport to building site phases contribute similarly to results. For global warming potential, their impacts range between 6% and 12%.

Installation

The installation phase has a minimal overall impact. Its contribution to global warming potential ranges between 5% and 8%. Among all other impact categories, A5 has an even lower contribution.

Embodied carbon

Embodied carbon can be defined as the cradle-to-gate (A1-A3) IPCC_{total} global warming potential impacts. The embodied carbon per declared unit of CAFCO® 400 AC is 4.73E+02 kg CO₂-eq for San Bernardino, 4.27E+02 kg CO₂-eq for Stanhope, and 4.37E+02 kg CO₂-eq for Houston.

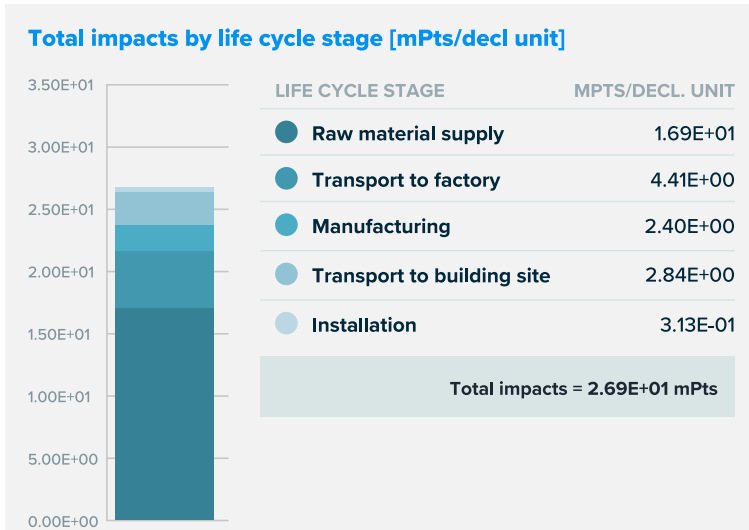
How we're making it greener

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PART	WT%
Natural gypsum, w/o flue gas desulfurization gypsum	55-65%
Natural unexpanded vermiculite	20-30%
Calcium carbonate	5-10%
Recycled content (cellulose)	0-7%
Bentonite clay	4-6%



LCA results

LIFE CYCLE STAGE	RAW MATERIAL SUPPLY	TRANSPORTATION	MANUFACTURING	TRANSPORTATION	INSTALLATION
	(X) A1 Raw Material extraction and upstream processing	(X) A2 Transport to factory	(X) A3 Manufacturing	(X) A4 Transport to building site	(X) A5 Installation
Information modules: Included (X) Excluded (MND)*					
*Modules B, C, and D are excluded.					

SM Single Score [Learn about SM Single Score results](#)

A variation of 10 to 20% | A variation greater than 20%

Impacts per declared unit	1.69E+01 mPts	4.41E+00 mPts	2.40E+00 mPts	2.84E+00 mPts	3.13E-01 mPts
Materials or processes contributing >20% to total impacts in each life cycle stage	Raw extraction and upstream manufacturing.	Truck and rail transportation used to transport raw materials to manufacturing site.	Energy and ancillary materials required to make the passive fire protection product.	Truck and rail transportation used to transport finished products to construction site.	Energy and water used for installation.

TRACI v2.2 results per declared unit - CAFCO® 400 AC produced in San Bernardino, CA

LIFE CYCLE STAGE	A1 RAW MATERIAL SUPPLY	A2 TRANSPORT	A3 MANUFACTURING	A4 TRANSPORT TO BUILDING SITE	A5 INSTALLATION	
Ecological damage						
Impact category	Unit					
GWP, IPCC _{Total}	kg CO ₂ eq	3.11E+02	1.08E+02	3.34E+01	4.16E+01	2.70E+01
GWP, IPCC _{Biogenic}	kg CO ₂ eq	-1.39E+00	0.00E+00	-2.22E+01	0.00E+00	2.22E+01
GWP, IPCC _{Fossil}	kg CO ₂ eq	3.12E+02	1.08E+02	5.56E+01	4.16E+01	4.85E+00
GWP, IPCC _{Luluc}	kg CO ₂ eq	4.13E-01	5.72E-03	4.22E-02	2.21E-03	3.47E-03
GWP, TRACI _{Total}	kg CO ₂ eq	3.10E+02	1.07E+02	3.23E+01	4.10E+01	3.13E+01
GWP, TRACI _{Biogenic}	kg CO ₂ eq	-1.39E+00	0.00E+00	-2.22E+01	0.00E+00	2.22E+01
GWP, TRACI _{Fossil}	kg CO ₂ eq	3.12E+02	1.07E+02	5.45E+01	4.10E+01	9.11E+00
Ozone depletion	kg CFC-11 eq	8.91E-06	1.46E-06	1.06E-06	5.59E-07	2.08E-08
Acidification	kg SO ₂ eq	4.07E-07	4.12E-08	6.85E-08	1.60E-08	1.95E-08
Marine eutrophication	kg N eq	2.94E-01	8.70E-02	1.93E-02	3.22E-02	1.87E-03
Freshwater eutrophication	kg P eq	5.71E-03	3.38E-04	8.80E-04	1.32E-04	2.05E-04

Human health damage

Additional environmental information

TRACI v2.2 results per declared unit - CAFCO® 400 AC produced in Stanhope, NJ

LIFE CYCLE STAGE	A1 RAW MATERIAL SUPPLY	A2 TRANSPORT	A3 MANUFACTURING	A4 TRANSPORT TO BUILDING SITE	A5 INSTALLATION	
Ecological damage						
Impact category	Unit					
GWP, IPCC _{Total}	kg CO ₂ eq	2.41E+02	2.88E+01	4.68E+01	4.16E+01	2.78E+01
GWP, IPCC _{Biogenic}	kg CO ₂ eq	-8.92E+01	0.00E+00	-2.29E+01	0.00E+00	2.29E+01
GWP, IPCC _{Fossil}	kg CO ₂ eq	3.30E+02	2.88E+01	6.97E+01	4.16E+01	4.85E+00
GWP, IPCC _{Luluc}	kg CO ₂ eq	4.29E-01	1.52E-03	4.15E-02	2.21E-03	3.47E-03
GWP, TRACI _{Total}	kg CO ₂ eq	2.40E+02	2.84E+01	4.56E+01	4.10E+01	3.19E+01
GWP, TRACI _{Biogenic}	kg CO ₂ eq	-8.92E+01	0.00E+00	-2.29E+01	0.00E+00	2.29E+01
GWP, TRACI _{Fossil}	kg CO ₂ eq	3.30E+02	2.84E+01	6.85E+01	4.10E+01	8.97E+00
Ozone depletion	kg CFC-11 eq	9.25E-06	3.87E-07	2.16E-06	5.59E-07	2.07E-08
Acidification	kg SO ₂ eq	4.25E-07	1.09E-08	7.53E-08	1.60E-08	1.94E-08
Marine eutrophication	kg N eq	3.11E-01	2.37E-02	2.30E-02	3.22E-02	1.85E-03
Freshwater eutrophication	kg P eq	5.94E-03	8.93E-05	9.39E-04	1.32E-04	2.04E-04

Human health damage

Additional environmental information

TRACI v2.2 results per declared unit - CAFCO® 400 AC produced in Houston, TX

LIFE CYCLE STAGE	A1 RAW MATERIAL SUPPLY	A2 TRANSPORT	A3 MANUFACTURING	A4 TRANSPORT TO BUILDING SITE	A5 INSTALLATION	
Ecological damage						
Impact category	Unit					
GWP, IPCC _{Total}	kg CO ₂ eq	2.53E+02	5.84E+01	4.40E+01	4.16E+01	2.59E+01
GWP, IPCC _{Biogenic}	kg CO ₂ eq	-6.27E+01	0.00E+00	-2.11E+01	0.00E+00	2.11E+01
GWP, IPCC _{Fossil}	kg CO ₂ eq	3.15E+02	5.84E+01	6.50E+01	4.16E+01	4.85E+00
GWP, IPCC _{Luluc}	kg CO ₂ eq	4.31E-01	3.03E-03	3.94E-02	2.21E-03	3.46E-03
GWP, TRACI _{Total}	kg CO ₂ eq	2.53E+02	5.77E+01	4.29E+01	4.10E+01	2.98E+01
GWP, TRACI _{Biogenic}	kg CO ₂ eq	-6.27E+01	0.00E+00	-2.11E+01	0.00E+00	2.11E+01
GWP, TRACI _{Fossil}	kg CO ₂ eq	3.15E+02	5.77E+01	6.40E+01	4.10E+01	8.76E+00
Ozone depletion	kg CFC-11 eq	9.34E-06	7.85E-07	1.10E-06	5.59E-07	2.07E-08
Acidification	kg SO ₂ eq	4.14E-07	2.14E-08	6.97E-08	1.60E-08	1.92E-08
Marine eutrophication	kg N eq	2.85E-01	5.38E-02	2.11E-02	3.22E-02	1.83E-03
Freshwater eutrophication	kg P eq	5.84E-03	1.74E-04	9.43E-04	1.32E-04	2.02E-04

Human health damage

Additional environmental information

Comparisons cannot be made between product-specific or industry average EPDs at the design stage of a project, before a building or construction works has been specified. Comparisons may be made between product-specific or industry average EPDs at the time of product purchase only when product or construction works performance and specifications have been established and serve as a functional unit for comparison. Environmental impact results shall be converted to a functional unit basis before any comparison is attempted. Any comparison of EPDs shall be subject to the requirements of ISO 21930 or EN 15804. EPDs are not comparative assertions and are either not comparable or have limited comparability when they have different system boundaries, are based on different product category rules or are missing relevant environmental impacts. Such comparisons can be inaccurate and could lead to erroneous selection of materials or products that are higher-impact, at least in some impact categories.

References

LCA Background Report
LCA of Isolatak International Passive Fire Protection Products (public version), Isolatak 2025. Developed using the TRACI v2.2, IPCC 2011 AR6, CML, and Cumulative Energy Demand (LHV) impact assessment methodologies, SimaPro Craft 10.2 software, and ecoinvent v3.11 database.

ISO 14025, "Sustainability in buildings and civil engineering works -- Core rules for environmental product declarations of construction products and services"

ISO 21930:2007, "Sustainability in Building Construction — Environmental Declaration of Building Products" serves as the core PCR.

Smart EPD Part A product category rules for building and construction products and services; Version 1.2, March 2025. PCR review conducted by Jack Geibig (chair, jgeibig@ecoform.com); Terrie Boguski; and Hugues Imbeault-Tétreault.

Smart EPD Part B product category rules for spray-applied Fire-Resistive Materials (SFRM); Version 4.0, January 2025. PCR review conducted by Thomas Gloria, PhD (chair, t.gloria@industrial-ecology.com); Karl Houser; and Jack Geibig.

Smart EPD General Program Instructions

Download PDF SM Transparency Report/ EPD

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 limitations of comparability more understandable. Environmental declarations 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 as defined in ISO 14025 Section 6.7.2. "Requirements for Comparability" are satisfied. In order to support comparative assertions, this EPD meets all comparability requirements stated in ISO 14025:2006. However, differences in certain assumptions, data quality, and variability between LCA data sets may still exist. Example of variations: Different LCA software and background LCI datasets may lead to differences in results upstream or downstream of the life cycle stages declared. EPDs are only comparable if they conform with ISO 21930, this sub-category PCR, include all relevant information modules and are based on equivalent scenarios with respect to the construction works context. Some LCA impact categories and inventory items are still under development and can have high levels of uncertainty. The science supporting this additional environmental information is still under development and may have high levels of uncertainty that preclude international acceptance pending further development. Use caution when interpreting data in this category. To promote uniform guidance on the data collection, calculation, and reporting of results, the ALCIA methodology (ALCIA 2019) was used. The environmental impact results of products in this document are based on a declared unit and therefore do not provide sufficient information to establish comparisons. The results shall not be used for comparison with other products to establish comparisons. The product shall not be used for comparison without knowledge of how the physical properties of the results impact the precise comparison at the construction level. The environmental impact results shall not be claimed to a functional unit basis before any comparison is attempted. A manufacturer shall not make claims based on an industry-average EPD which leads the market to believe the industry-average is representative of manufacturer-specific or product-specific results.

Rating systems

The intent is to reward project teams for selecting products from manufacturers who have verified improved life-cycle environmental performance.

LEED BD+C: New Construction v4 - LEED v4

Building product disclosure and optimization

Environmental product declarations

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

LEED BD+C: New Construction v4.1 - LEED v4.1

Building product disclosure and optimization

Environmental product declarations

- Industry-wide (generic) EPD 1 product
- Product-specific Type III EPD 1.5 products

BREEAM New Construction 2018

Mat 02 - Environmental impacts from construction products

Environmental Product Declarations (EPD)

- Industry-average EPD .5 points
- Multi-product specific EPD .75 points
- Product-specific EPD 1 point

SM Transparency Report (EPD)™ + Material Health Overview™

VERIFICATION LCA

- 3rd-party reviewed
- Transparency Report (EPD)
- 3rd-party verified

Validity: 08/12/25 – 08/11/30
ISL – 08122025 – 002

MATERIAL HEALTH Evaluation

- Self-declared

This environmental product declaration (EPD) was externally verified by Jack Geibig (Ecoform) according to ISO 21930:2017; ISO 14025:2006; Smart EPD Part A; and Smart EPD Part B for spray-applied fire-resistive materials (SFRM). In accordance with ISO 14044 and the reference PCR, this life cycle assessment was conducted by Sustainable Minds and reviewed by [Reviewer Name] (Ecoform).

Ecoform, LLC
11903 Black Road
Knoxville, TN 37932
(865) 850-1883
www.ecoform.com



SUMMARY

Smart EPD® Part B PCR for Spray-Applied Fire-Resistive Materials, 1000-003, v4.0, 01/25 – 01/30

System boundaries
Cradle to gate (A1 – A3) with installation (A4, A5)

Market of applicability
North America
Declared unit: 1,000 kg
LCIA methodology: GWP 100 IPCC 2021 (AR6), TRACI 2.2

LCIA software; LCI database
SimaPro Craft 10.2; ecoinvent 3.11, US- E1 2.2
LCA conducted by: Sustainable Minds
Public LCA:
LCA of Isolatak Passive Fire Protection Products
EPD holder:
Isolatak International

Isolatak International
14231 Seaway Rd, Suite 1003
Gulfport, MS 3950
www.isolatak.com
800 631 9600

Contact us

EPD additional content

CAFCO® 400 Series

CAFCO® 400	CAFCO® 400 AC	EPD additional content	Material health
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Data

Background This product-specific and facility-specific declaration was created by collecting annual production data. For products manufactured at multiple facilities, primary data was collected separately from each location and modeled individually. All product types are manufactured by blending the specified bulking agent with a number of product-specific binders to achieve prescribed fire rating performance in the field. Finished goods are packaged in individual bags, stacked on pallets, and stretch wrapped before delivery to job sites.

Allocation The model used in this report ensures that the sum of the allocated inputs and outputs of a unit process are equal to the inputs and outputs of the unit process before allocation. This means that no double counting or omissions of inputs or outputs through allocation is occurring. The manufacturing facilities included in this study all produce multiple products. Since only facility level data were available, allocation among a facility's co-products was necessary to determine the input and output flows associated with each product. Allocation of materials and energy was done on a mass basis for all products. Allocation of transportation was based on the weight of the outputs of products from each facility.

Cut-off criteria for the inclusion of mass and energy flows are 1% of renewable primary resource (energy) usage, 1% nonrenewable primary resource (energy) usage, 1% of the total mass input of that unit process, and 1% of environmental impacts. The total of neglected input flows per module does not exceed 5% of energy usage, mass, and environmental impacts. The only exceptions to these criteria are substances with hazardous and toxic properties, which must be listed even when the given process unit is under the cut-off criterion of 1% of the total mass. No renewable energy was used in production beyond that accounted for in the eGRID data sets for the three facilities, and no energy was recovered. No known flows are deliberately excluded from this declaration, and no substances considered to be hazardous or toxic according to the Toxics Release Inventory (TRI) program or local regulations are present in the products. Biogenic carbon is included in reported results. Therefore, these criteria have been met.

Quality The precision of the data and geographic representativeness are considered to be high. Isolatek personnel provided detailed bills of materials, and facility managers provided utility information for the manufacturing locations. Temporal and technological representativeness are considered to be high. The raw material transportation distances were calculated based on the raw material supplier addresses. The data included is considered complete. The LCA model included all known material and energy flows. The consistency of the model is considered high. The bills of materials provided by Isolatek personnel were developed for multiple internal departments and are maintained regularly.

Background LCI data sets Modeling choices were applied consistently. Except for eGRID electricity data sets, all background LCI data sets used in the study were sourced from ecoinvent v3.11.

Raw material supply [A1]

Foreground data	Background data set	Reference year	Geography
Natural gypsum	Gypsum plasterboard (RoW) gypsum plasterboard production Cut-off, U	2023	Rest of World (RoW)
Plaster of Paris	Gypsum plasterboard (RoW) gypsum plasterboard production Cut-off, U	2023	Rest of World (RoW)
Mica	Expanded vermiculite (RoW) expanded vermiculite production Cut-off, U	2023	Rest of World (RoW)
Vermiculite	Expanded vermiculite (RoW) expanded vermiculite production Cut-off, U	2023	Rest of World (RoW)
Calcium Carbonate	Calcium carbonate, precipitated (RoW) calcium carbonate production, precipitated Cut-off, U	2023	Rest of World (RoW)
Feldspar	Feldspar (RoW) feldspar production Cut-off, U	2023	Rest of World (RoW)
Bentonite Clay	Bentonite (RoW) bentonite quarry operation Cut-off, U	2023	Rest of World (RoW)
Portland Cement Type 1L10	Cement, Portland (RoW) cement production, Portland Cut-off, U	2023	Rest of World (RoW)
Recycled Cellulose	Empty data set	N/A	N/A
Recycled Levy Slag	Blast furnace slag, Recycled Content cut-off GLO	2023	Global

Transport to factory & building site [A2&A4]

Foreground data	Background data set	Reference year	Geography
Bulk tanker	transport, freight, lorry >32 metric ton, EURO4 RoW	2024	Rest of World (RoW)
Intermodal freight	transport, freight, lorry >32 metric ton, EURO4 RoW	2024	Rest of World (RoW)
53' Dry van	transport, freight, lorry >32 metric ton, EURO4 RoW	2024	Rest of World (RoW)
48" Rail container	Transport, freight train (US) market for transport, freight train Cut-off, U	2024	The U.S.

Manufacturing [A3]

Foreground data	Background data set	Reference year	Geography
Manufacturing electricity	Electricity mix, eGrid subregion, ERCT/US U	2023	The U.S.
Manufacturing electricity	Electricity mix, eGrid subregion, CAMX/US U	2023	The U.S.
Manufacturing electricity	Electricity mix, eGrid subregion, RFCW/US U	2023	The U.S.
Manufacturing electricity	Electricity mix, eGrid subregion, RFCE/US U	2023	The U.S.
Natural gas for heat production	market for heat, district or industrial, natural gas RoW	2024	Rest of World (RoW)
Coke for heat production	Heat, central or small-scale, other than natural gas (RoW) heat production, hard coal coke, stove 5-15kW Cut-off, U	2024	Rest of World (RoW)
Road transport for collecting municipal waste	Municipal waste collection service by 21 metric ton lorry (RoW) municipal waste collection service by 21 metric ton lorry Cut-off, U	2023	Rest of World (RoW)
Landfilled municipal waste	Process-specific burdens, residual material landfill (RoW) market for process-specific burdens, residual material landfill Cut-off, U	2024	Rest of World (RoW)
Waste paper incineration	Waste paperboard (GLO) treatment of waste paperboard, municipal incineration Cut-off, U	2024	Global
Waste paper landfill	Waste paperboard (RoW) treatment of waste paperboard, sanitary landfill Cut-off, U	2024	Rest of World (RoW)
Waste plastic incineration	Waste plastic, mixture (RoW) treatment of waste plastic, mixture, municipal incineration Cut-off, U	2024	Rest of World (RoW)
Waste plastic landfill	Waste plastic, mixture (RoW) treatment of waste plastic, mixture, sanitary landfill Cut-off, U	2024	Rest of World (RoW)
Kraft paper bag	Kraft paper (RoW) kraft paper production Cut-off, U	2023	Rest of World (RoW)
Plastic bag	Packaging film, low density polyethylene (RoW) production Conseq, U	2021	Rest of World (RoW)

Installation [A5]

Foreground data	Background data set	Reference year	Geography
Water use	Tap water (RoW) market for tap water Cut-off, U	2024	Rest of World (RoW)
Electricity use	Electricity, medium voltage (US) market group for electricity, medium voltage Cut-off, U	2024	The U.S.

CAFCO® 400 - San Bernardino, CA: LCI indicator results for resource use, output and waste flows, and carbon emissions & removals per declared unit

Impact category	Unit	A1 - Raw Material supply	A2 - Transport	A3 - Manufacturing	A4 - Transport to the Building Site	A5 - Installation	Total
Resource use indicators							
RPR _E	MJ, NCV	1.99E+02	2.82E+00	5.52E+02	1.49E+00	8.89E+00	7.64E+02
RPR _M	MJ, NCV	8.18E+02	0.00E+00	7.93E+02	0.00E+00	0.00E+00	1.61E+03
RPR _{total}	MJ, NCV	1.02E+03	2.82E+00	1.35E+03	1.49E+00	8.89E+00	2.38E+03
NRPR _E	MJ, NCV	3.71E+03	1.49E+03	9.47E+02	7.87E+02	8.48E+01	7.02E+03
NRPR _M	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPR _{total}	MJ, NCV	3.71E+03	1.49E+03	9.47E+02	7.87E+02	8.48E+01	7.02E+03
SM	kg	6.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E+01
RSF	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	2.86E+01	1.92E+00	6.51E+00	1.02E+00	1.45E+00	3.95E+01
ADP _{fossil}	MJ, NCV	3.40E+03	1.40E+03	7.74E+02	7.38E+02	5.84E+01	6.37E+03
Output flows and waste category indicators							
HWD	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NHWD	kg	0.00E+00	0.00E+00	2.00E+01	0.00E+00	1.37E+01	3.37E+01
HLRW	kg	3.70E-04	1.92E-05	2.93E-04	1.02E-05	7.11E-05	7.63E-04
ILLRW	kg	8.06E-04	4.04E-05	6.53E-04	2.14E-05	2.46E-04	1.77E-03
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon emissions and removals							
BCRP	kg CO ₂	-8.64E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.64E+01
BCEP	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK	kg CO ₂	0.00E+00	0.00E+00	-2.22E+01	0.00E+00	0.00E+00	-2.22E+01
BCEK	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E+01	2.22E+01
CBCEW	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CAFCO® 400 - Stanhope, NJ: LCI indicator results for resource use, output and waste flows, and carbon emissions & removals per declared unit

Impact category	Unit	A1 - Raw Material supply	A2 - Transport	A3 - Manufacturing	A4 - Transport to the Building Site	A5 - Installation	Total
Resource use indicators							
RPR _E	MJ, NCV	2.10E+02	6.50E-01	4.65E+02	1.49E+00	8.89E+00	6.87E+02
RPR _M	MJ, NCV	1.32E+01	0.00E+00	7.97E+02	0.00E+00	0.00E+00	8.10E+02
RPR _{total}	MJ, NCV	2.23E+02	6.50E-01	1.26E+03	1.49E+00	8.89E+00	1.50E+03
NRPR _E	MJ, NCV	3.92E+03	3.44E+02	1.40E+03	7.87E+02	8.48E+01	6.53E+03
NRPR _M	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPR _{total}	MJ, NCV	3.92E+03	3.44E+02	1.40E+03	7.87E+02	8.48E+01	6.53E+03
SM	kg	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00
RSF	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	3.06E+01	4.67E-01	7.12E+00	1.08E+00	1.45E+00	4.07E+01
ADP _{fossil}	MJ, NCV	3.59E+03	3.23E+02	1.01E+03	7.38E+02	5.84E+01	5.72E+03
Output flows and waste category indicators							
HWD	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NHWD	kg	0.00E+00	0.00E+00	2.00E+01	0.00E+00	1.38E+01	3.38E+01
HLRW	kg	3.88E-04	4.44E-06	8.46E-04	1.02E-05	7.11E-05	1.32E-03
ILLRW	kg	8.49E-04	9.32E-06	1.89E-03	2.14E-05	2.46E-04	3.01E-03
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon emissions and removals							
BCRP	kg CO ₂	-1.39E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.39E+00
BCEP	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK	kg CO ₂	0.00E+00	0.00E+00	-2.22E+01	0.00E+00	0.00E+00	-2.22E+01
BCEK	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E+01	2.22E+01
CBCEW	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CAFCO® 400 - Houston, TX: LCI indicator results for resource use, output and waste flows, and carbon emissions & removals per declared unit

Impact category	Unit	A1 - Raw Material supply	A2 - Transport	A3 - Manufacturing	A4 - Transport to the Building Site	A5 - Installation	Total
Resource use indicators							
RPR _E	MJ, NCV	1.97E+02	1.75E+00	4.99E+02	1.49E+00	8.89E+00	7.08E+02
RPR _M	MJ, NCV	6.46E+02	0.00E+00	8.10E+02	0.00E+00	0.00E+00	1.46E+03
RPR _{total}	MJ, NCV	8.43E+02	1.75E+00	1.31E+03	1.49E+00	8.89E+00	2.17E+03

Scenarios and additional technical information

Manufacturing [A3] The manufacturing process assumes a scrap rate of 2% (20 kg) per declared unit (1,000 kg). Prior to delivery to job sites, the finished goods are individually packaged in kraft paper bags.

Kraft paper packaging consumption in manufacturing per declared unit	San Bernardino, CA	Stanhope, NJ	Houston, TX
CAFCO® 400 - Kraft paper packaging (kg)	13.73	13.79	14.03
CAFCO® 400 AC - Kraft paper packaging (kg)	14.21	13.75	13.05

Packaging transport and waste treatment scenarios per manufacturing facility	San Bernardino, CA	Stanhope, NJ	Houston, TX
Vehicle for packaging transport	53' dry van trailers		
Shipping distance for packaging material (km)	832	3,515	2,189
Waste disposal	100% landfill		
Vehicle for waste collection and transport	Garbage truck		
Waste management transport distance (km)	13	43	7

Transport scenario [A4]

Name	Value	Unit
Fuel type	Diesel	
Vehicle type	Truck	
Transportation distance		
Transport distance	500	km
Capacity utilization	50	%
Capacity utilization volume factor (factor: =1 or <1 or ≥ 1 for compressed or nested packaging products)	1	-
Gross density		
CAFCO® 400	320	kg/m ³
CAFCO® 400 AC	320	kg/m ³

Installation scenario [A5] Kraft paper wastes are generated during product installation as listed per declared unit in the table below

Product name and facility location	Waste packaging (kg)	Packaging waste disposal assumptions specified by route	Biogenic carbon packaging (kg)
CAFCO® 400 San Bernardino, CA	13.73	Recycling 8.88 kg; Landfill 3.90 kg; Incineration 0.95 kg	22.15
CAFCO® 400 Stanhope, NJ	13.79	Recycling 8.92 kg; Landfill 3.92 kg; Incineration 0.95 kg	22.25
CAFCO®			

NRPR _E	MJ, NCV	3.75E+03	9.29E+02	1.13E+03	7.87E+02	8.49E+01	6.68E+03
NRPR _M	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPR _{total}	MJ, NCV	3.75E+03	9.29E+02	1.13E+03	7.87E+02	8.49E+01	6.68E+03
SM	kg	4.90E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E+01
RSF	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	2.91E+01	1.16E+00	7.07E+00	1.01E+00	1.45E+00	3.98E+01
ADP _{fossil}	MJ, NCV	3.44E+03	8.71E+02	9.62E+02	7.38E+02	5.85E+01	6.07E+03
Output flows and waste category indicators							
HWD	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NHWD	kg	0.00E+00	0.00E+00	2.00E+01	0.00E+00	1.40E+01	3.40E+01
HLRW	kg	3.75E-04	1.20E-05	2.18E-04	1.02E-05	7.11E-05	6.86E-04
ILLRW	kg	8.15E-04	2.50E-05	4.88E-04	2.14E-05	2.46E-04	1.60E-03
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon emissions and removals							
BCRP	kg CO ₂	-6.83E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.83E+01
BCEP	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK	kg CO ₂	0.00E+00	0.00E+00	-2.26E+01	0.00E+00	0.00E+00	-2.26E+01
BCEK	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E+01	2.26E+01
CBCEW	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CAFCO® 400 AC - San Bernardino, CA: LCI indicator results for resource use, output and waste flows, and carbon emissions & removals per declared unit

Impact category	Unit	A1 - Raw Material supply	A2 - Transport	A3 - Manufacturing	A4 - Transport to the Building Site	A5 - Installation	Total
Resource use indicators							
RPR _E	MJ, NCV	7.35E+02	2.83E+00	5.72E+02	1.09E+00	8.89E+00	1.32E+03
RPR _M	MJ, NCV	1.32E+01	0.00E+00	7.94E+02	0.00E+00	0.00E+00	8.07E+02
RPR _{total}	MJ, NCV	7.49E+02	2.83E+00	1.37E+03	1.09E+00	8.89E+00	2.13E+03
NRPR _E	MJ, NCV	3.67E+03	1.49E+03	9.69E+02	5.74E+02	8.49E+01	6.79E+03
NRPR _M	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPR _{total}	MJ, NCV	3.67E+03	1.49E+03	9.69E+02	5.74E+02	8.49E+01	6.79E+03
SM	kg	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00
RSF	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	3.24E+01	1.09E+00	3.82E+00	4.21E-01	1.13E+00	3.89E+01
ADP _{fossil}	MJ, NCV	3.26E+03	1.40E+03	7.91E+02	5.39E+02	5.85E+01	6.05E+03
Output flows and waste category indicators							
HWD	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NHWD	kg	0.00E+00	0.00E+00	2.00E+01	0.00E+00	1.38E+01	3.38E+01
HLRW	kg	7.14E-04	1.93E-05	3.03E-04	7.41E-06	7.11E-05	1.11E-03
ILLRW	kg	1.89E-03	4.05E-05	6.76E-04	1.56E-05	2.46E-04	2.86E-03
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon emissions and removals							
BCRP	kg CO ₂	-1.39E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.39E+00
BCEP	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK	kg CO ₂	0.00E+00	0.00E+00	-2.22E+01	0.00E+00	0.00E+00	-2.22E+01
BCEK	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E+01	2.22E+01
CBCEW	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CAFCO® 400 AC - Stanhope, NJ: LCI indicator results for resource use, output and waste flows, and carbon emissions & removals per declared unit

Impact category	Unit	A1 - Raw Material supply	A2 - Transport	A3 - Manufacturing	A4 - Transport to the Building Site	A5 - Installation	Total
Resource use indicators							
RPR _E	MJ, NCV	7.61E+02	7.52E-01	4.65E+02	1.09E+00	8.89E+00	1.24E+03
RPR _M	MJ, NCV	8.44E+02	0.00E+00	8.21E+02	0.00E+00	0.00E+00	1.66E+03
RPR _{total}	MJ, NCV	1.61E+03	7.52E-01	1.29E+03	1.09E+00	8.89E+00	2.90E+03
NRPR _E	MJ, NCV	3.89E+03	3.98E+02	1.40E+03	5.74E+02	8.48E+01	6.35E+03
NRPR _M	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPR _{total}	MJ, NCV	3.89E+03	3.98E+02	1.40E+03	5.74E+02	8.48E+01	6.35E+03
SM	kg	6.40E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E+01
RSF	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	3.37E+01	2.98E-01	4.35E+00	4.35E-01	1.14E+00	4.00E+01
ADP _{fossil}	MJ, NCV	3.46E+03	3.73E+02	1.01E+03	5.39E+02	5.84E+01	5.44E+03
Output flows and waste category indicators							
HWD	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NHWD	kg	0.00E+00	0.00E+00	2.00E+01	0.00E+00	1.42E+01	3.42E+01
HLRW	kg	7.45E-04	5.13E-06	8.46E-04	7.41E-06	7.11E-05	1.67E-03
ILLRW	kg	1.97E-03	1.08E-05	1.89E-03	1.56E-05	2.46E-04	4.13E-03
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon emissions and removals							
BCRP	kg CO ₂	-8.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.92E+01
BCEP	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK	kg CO ₂	0.00E+00	0.00E+00	-2.29E+01	0.00E+00	0.00E+00	-2.29E+01
BCEK	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+01	2.29E+01
CBCEW	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CAFCO® 400 AC - Houston, TX: LCI indicator results for resource use, output and waste flows, and carbon emissions & removals per declared unit

Impact category	Unit	A1 - Raw Material supply	A2 - Transport	A3 - Manufacturing	A4 - Transport to the Building Site	A5 - Installation	Total
Resource use indicators							
RPR _E	MJ, NCV	7.61E+02	1.52E+00	4.67E+02	1.09E+00	8.88E+00	1.24E+03
RPR _M	MJ, NCV	5.93E+02	0.00E+00	7.54E+02	0.00E+00	0.00E+00	1.35E+03
RPR _{total}	MJ, NCV	1.35E+03	1.52E+00	1.22E+03	1.09E+00	8.88E+00	2.59E+03
NRPR _E	MJ, NCV	3.75E+03	8.08E+02	1.10E+03	5.74E+02	8.48E+01	6.31E+03
NRPR _M	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPR _{total}	MJ, NCV	3.75E+03	8.08E+02	1.10E+03	5.74E+02	8.48E+01	6.31E+03
SM	kg	4.50E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E+01
RSF	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	3.37E+01	5.89E-01	4.11E+00	4.35E-01	1.14E+00	3.99E+01
ADP _{fossil}	MJ, NCV	3.32E+03	7.58E+02	9.39E+02	5.39E+02	5.84E+01	5.62E+03
Output flows and waste category indicators							
HWD	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NHWD	kg	0.00E+00	0.00E+00	2.00E+01	0.00E+00	1.31E+01	3.31E+01
HLRW	kg	7.44E-04	1.04E-05	2.05E-04	7.41E-06	7.11E-05	1.04E-03
ILLRW	kg	1.97E-03	2.18E-05	4.60E-04	1.56E-05	2.46E-04	2.71E-03
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon emissions and removals							
BCRP	kg CO ₂	-6.27E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.27E+01
BCEP	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK	kg CO ₂	0.00E+00	0.00E+00	-2.11E+01	0.00E+00	0.00E+00	-2.11E+01
BCEK	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E+01	2.11E+01
CBCEW	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Acronyms used for resource use, output and waste flows, and carbon emissions & removals

Indicators	Acronyms used
Resource use indicators	
Renewable primary energy used as energy carrier (fuel)	RPR _E
Renewable primary resources with energy content used as material	RPR _M
Total use of renewable primary resources with energy content	RPR _{total}
Non-renewable primary resources used as an energy carrier (fuel)	NRPR _E
Non-renewable primary resources with energy content used as material	NRPR _M
Total use of non-renewable primary resources with energy content	NRPR _{total}
Secondary materials	SM
Renewable secondary fuels	RSF
Non-renewable secondary fuels	NRSF
Recovered energy	RE
Use of net fresh water resources	FW
Abiotic depletion potential for fossil resources	ADP _{fossil}
Output flows and waste category indicators	
Hazardous waste disposed	HWD
Non-hazardous waste disposed	NHWD
High-level radioactive waste, conditioned, to final repository	HLRW
Intermediate- and low	

LCA & material health results & interpretation

CAFCO® 400 Series

CAFCO® 400

CAFCO® 400 AC

EPD additional content

Material health

Assessment scope and results

Declare™

Inventory threshold: 100 ppm

Declare level:

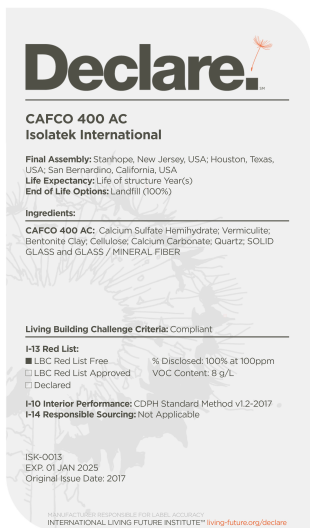
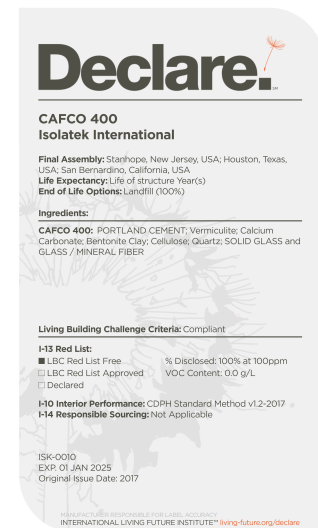
The Declare product database and label are used to select products that meet the LBC's stringent materials requirements, streamlining the materials specification and certification process.

- LBC Red List Free ²
- LBC Red List Approved ²
- Declared ²

Click the label to see the full declaration.

● CAFCO 400

● CAFCO 400 AC



Health Product Declaration®

CAFCO 400

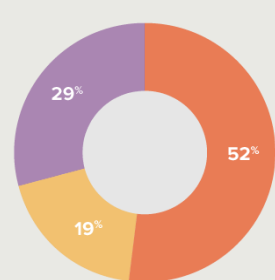
Inventory threshold: 1,000ppm

Full disclosure known hazards: Yes

Based on the selected content inventory threshold:

Characterized Screened Identified

TOTAL INTENTIONAL INGREDIENTS



GreenScreen® List Translator Scores

- List Translator Likely Benchmark 1 / Benchmark 1 ²
- List Translator Possible Benchmark 1 ²
- List Translator Benchmark Unknown ²
- Benchmark 2 ²
- Benchmark 3 ²
- Benchmark 4 ²
- No GS data available ²

[Learn about the GreenScreen® List Translator](#)

Total VOC Content²

Material (g/l): 0.0 Regulatory (g/l): 50.0

Does the product contain exempt VOCs: No

Are ultra-low VOC tints available: N/A

CAFCO 400 AC

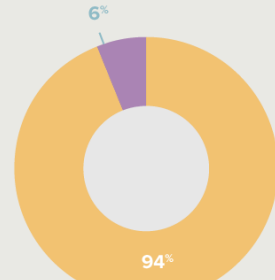
Inventory threshold: 1,000ppm

Full disclosure known hazards: Yes

Based on the selected content inventory threshold:

Characterized Screened Identified

TOTAL INTENTIONAL INGREDIENTS



Total VOC Content²

Material (g/l): 8.1 Regulatory (g/l): 50.0

Does the product contain exempt VOCs: No

Are ultra-low VOC tints available: N/A

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.

References

Declare
CAFCO® 400
CAFCO® 400 AC

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®

CAFCO® 400
CAFCO® 400 AC

Health Product Declaration Open Standard v2.3

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

Rating systems

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

Building product disclosure and optimization

Material Ingredients

Credit value options 1 product each

1. Reporting 2. Optimization 3. Supply Chain Optimization

LEED BD+C: New Construction | v4.1 - LEED v4.1

Materials and resources

Material Ingredients

Credit value options 1 product each

1. Reporting 2. Optimization 3. Supply Chain Optimization

Living Building Challenge

Materials petals imperatives

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

WELL Building Standard®

Air and Mind Features

X07 Materials Transparency

X08 Materials Optimization

Collaborative for High Performance Schools National Criteria

EQ C7.1 Material Health Disclosures

Performance Approach 2 points

Prescriptive Approach 2 points

SM Transparency Report (EPD)™ + Material Health Overview™

VERIFICATION

LCA

3rd-party reviewed

Transparency Report (EPD)

3rd-party verified

Validity: 08/12/25 – 08/11/30

ISL – 08122025 – 002

MATERIAL HEALTH Material evaluation

Self-declared

This environmental product declaration (EPD) was externally verified by Jack Geigib (Ecoform) according to ISO 21930:2017; ISO 14025:2006; Smart EPD Part A; and Smart EPD Part B for spray-applied fire-resistive materials (SFRM).

In accordance with ISO 14044 and the reference PCR, this life cycle assessment was conducted by Sustainable Minds and reviewed by [Reviewer Name] (Ecoform).

Ecoform, LLC
11903 Black Road
Knoxville, TN 37932
(865) 850-1883
www.ecoform.com



SUMMARY

Reference PCR
Smart EPD™ Part B PCR for Spray-Applied Fire-Resistive Materials, 1000-003, v4.0, 01/25 – 01/30

System boundaries
Cradle to gate (A1 – A3) with installation (A4, A5)

Market of applicability
North America

Declared unit: 1,000 kg

LCA methodology: GWP 100 IPCC 2021 (AR6), TRACI 2.2

LCA software: LCI database
SimaPro Craft 10.2; ecoinvent 3.11, US-EI 2.2

LCA conducted by: Sustainable Minds

Public LCA:
LCA of Isolatek Passive Fire Protection Products

EPD holder:
Isolatek International

Isolatek International
14231 Seaway Rd., Suite 1003
Gulfport, MS 3950
www.isolatek.com
800 631 9600

Contact us

How we make it greener

CAFCO® 400 Series

Expand all

RAW MATERIAL ACQUISITION



Reuse of recycled spent materials

Isolatek uses recycled cellulose in the production of the CAFCO® 300 Series products. CAFCO 300 contains up to 6% recycled cellulose.

Isolatek collaborates with vendors to provide neutral products that minimize environmental impact, conserves energy, reduces and diverts waste, and are sustainable.

These vendors, where possible, are strategically located in close proximity to our manufacturing facilities which minimized transportation costs.



MANUFACTURING



Regional Manufacturing

Isolatek makes a point to minimize energy in our plants, buildings and processes in order to conserve supplies, and minimize consumption of natural resources, especially non-renewable resources.



TRANSPORTATION

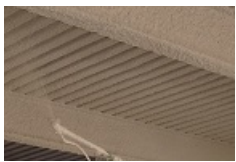


Optimized and recycled packaging

CAFCO 300 Series products are packaged in recyclable kraft paper bags and shipped on wood pallets that can be reused or recycled.



USE



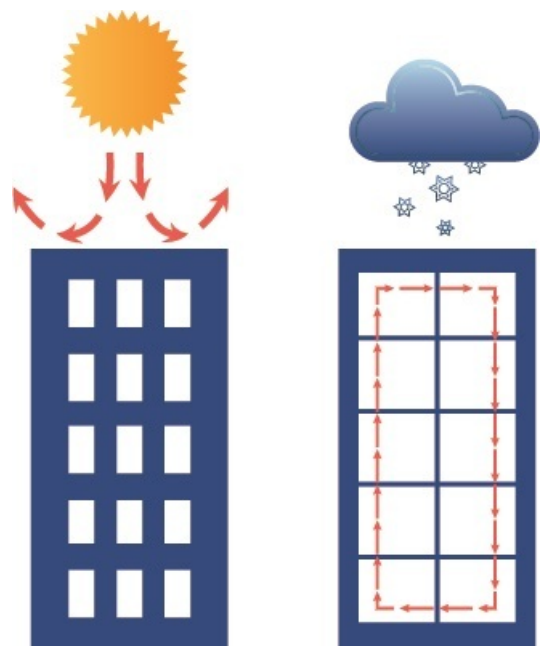
Energy use optimization

Isolatek's materials also provide both NRC (Noise Reduction Coefficient) values and Thermal Resistance (R) values which allow for the reduction of the amount of energy needed for climate control, and reduce the need for additional materials required for soundproofing within the building envelope.

Extended set products are available that eliminates daily wash out, reducing clean water consumption and construction waste.

Reduced water use

Isolatek's materials are designed to use the least amount of water during the installation process, which results in less consumption of natural resources.



END OF LIFE



Durability

Although Isolatek's Applied Fireproofing products are designed to last the lifetime of the building, the end life of the product is generally the result of a rehabilitation, which may require removal and replacement of the Applied Fireproofing materials. The removal depends upon the degree of the rehabilitation. Otherwise, the end life of the material is based on the end life of the structure in its entirety. The material is then processed along with the remainder of the structure, primarily as landfill material.



SM Transparency Report (EPD)™ + Material Health Overview™

VERIFICATION	LCA
3rd-party reviewed	✔
Transparency Report (EPD)	
3rd-party verified	✔
Validity: 08/12/25 – 08/11/30 ISL – 08122025 – 002	
MATERIAL HEALTH	Material evaluation
Self-declared	✔

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