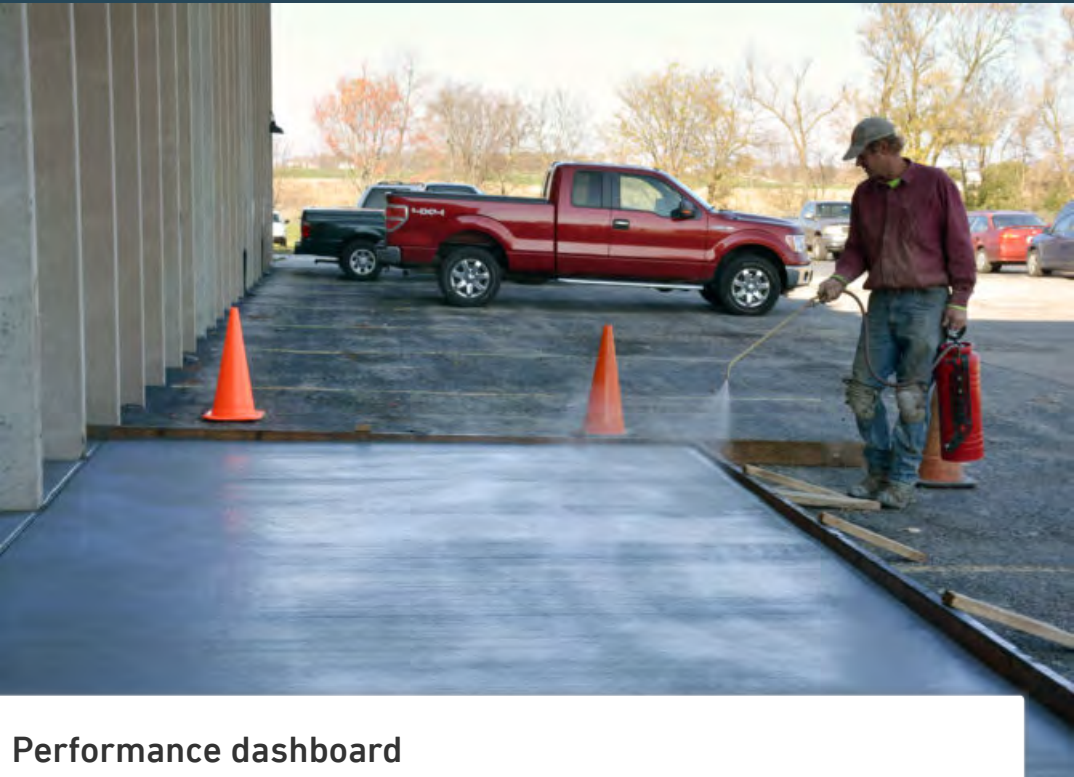




VOCOMP®-20, -25, -30

The VOCOMP series from W. R. MEADOWS features a range of water-based, acrylic curing and sealing compounds designed to protect and enhance concrete surfaces. These products provide a durable, breathable, and UV-resistant seal that protects the concrete.



Performance dashboard

Features & functionality

The VOCOMP series of products are concrete curing and sealing compounds designed for both fresh and existing concrete.

The VOCOMP products are acrylic curing and sealing compounds formulated using special acrylic polymers in a true water-based carrier.

Once properly applied, VOCOMP provides a durable film for efficient moisture retention.

VOCOMP appears milky white in the container and, when first applied, leaves a bluish cast on the concrete for easy visual confirmation of coverage.

VOCOMP resists yellowing from ultraviolet exposure and provides a durable, long-lasting finish that offers improved resistance to chemicals and wear.

Visit **W.R. MEADOWS** for more product information:

[VOCOMP-20](#)
[VOCOMP-25](#)
[VOCOMP-30](#)

MasterFormat® 03 39 23
VOCOMP [Guide specs](#)

For spec help, [contact us](#) or call 800-342-5976.

Environment & materials

Improved by:

No added formaldehyde

Made in the United States & Canada

VOC CONTENT:

VOCOMP-20: 20 g/L
VOCOMP-25: 54 g/L
VOCOMP-30: 157 g/L

CDPH Standard Method v1.2, MAS Certified Green® Low-Emitting Materials

USGBC member

CAGBC member

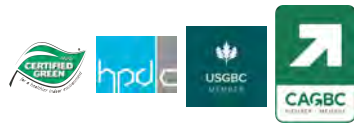
Certifications, rating systems & disclosures:

Health Product Declaration

Product ingredients do not contain chemicals in the Living Building Challenge Red List

Build America, Buy America Act compliant

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



SM Transparency Report (EPD)™

EPD

3rd-party reviewed



Transparency Report (EPD)

3rd-party verified



Validity: 05/28/25 – 05/28/30
SM-WRM – 05282025 – 009

LCA

This environmental product declaration (EPD) was externally verified by Lindita Bushi, PhD, Senior Research Associate at Athena, according to ISO 21930:2017; NSF PCR for Architectural Coatings; and ISO 14025:2006.

Athena Sustainable Materials Institute
600 Grings Hill Road
Sinking Spring, PA 19608
<https://www.athenasmi.org/>
(610) 985-0933



Athena Sustainable Materials Institute

SUMMARY

Reference PCR
NSF PCR for Architectural Coatings

Regions; system boundaries
North America; Cradle-to-grave

Functional unit: 1 m²

LCIA methodology: TRACI 2.1

LCA software; LCI database
SimaPro Developer 9.6; ecoinvent v3.10, US-EI 2.2

Public LCA:
LCA of W. R. MEADOWS Concrete curing products

In accordance with ISO 14044 and the reference PCR, this life cycle assessment was conducted by Sustainable Minds and reviewed by Lindita Bushi, PhD, Senior Research Associate at Athena.

W.R. MEADOWS, Inc.
300 Industrial Drive
P.O. Box 338
Hampshire, IL 60140-0338
wrmeadows.com
(800) 342-5976

Contact us

LCA results & interpretation

VOCOMP®

VOCOMP®-20	VOCOMP®-25	VOCOMP®-30	EPD additional content
------------	------------	------------	------------------------

Scope and summary

- ☐ Cradle to gate
- ☐ Cradle to gate with options
- ☒ Cradle to grave

Application

VOCOMP®-25 is a water-based acrylic concrete curing and sealing compound is formulated with 25% solids using acrylic polymers in a water-based carrier. VOC compliant.

Functional unit

According to the PCR, the functional unit is: 1 m² of covered and protected substrate for a period of 60 years (the assumed average lifetime of a building).

W. R. MEADOWS' VOCOMP and MEL-PRIME products fall within the general category of curing, sealing, and priming coatings. The product life for coatings is typically defined by market lifetime (5 years) and technical life (either 5, 10, or 20 years), depending on performance in durability tests as outlined in the PCR. Since VOCOMPs are single-use products that do not require reapplication, the functional unit considers only the initial application, with no additional reapplications over the 60-year lifespan of a building. The results in this report are presented per functional unit.

Density: 8.59 lb/gal

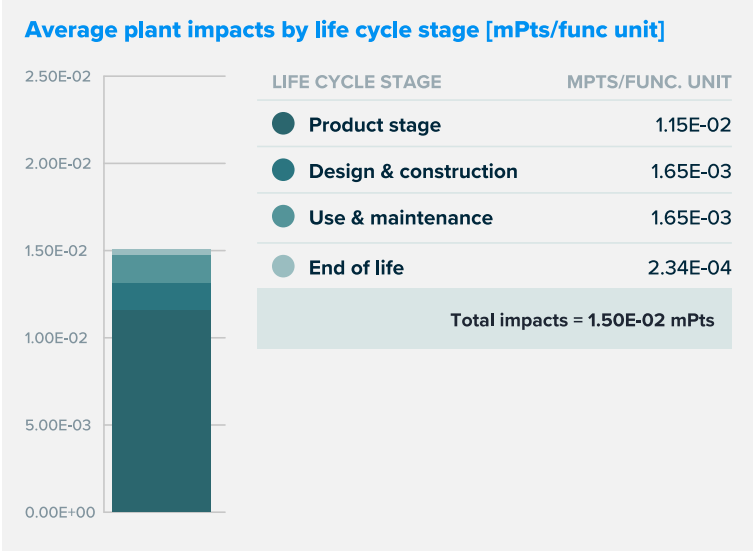
Coverage: 9.82 m²/L

Reference flow: 0.10 kg/functional unit

Manufacturing data

Reporting period: January 2023 – December 2023
Location: Cartersville, GA, USA; Ft Worth, TX, USA; Goodyear, AZ, USA; Hampshire, IL, USA; York, PA, USA; Benicia, CA, USA; Milton, Ontario, CAN; Sherwood Park, Alberta, CAN

Material composition by wt%	
MATERIAL	WT%
Polymer emulsion	75-84%
Solvent	<5%
Plasticizer	<5%
Additives	<3%
Packaging, plastic	<1%
Packaging, steel drum	<1%
Packaging, wood pallet	<1%
Packaging, stretch film	<1%



What's causing the greatest impacts

All life cycle stages

The product stage [1-1 - 1-3] dominates the results for all impact categories.

The raw material manufacturing stage contributes the most to the overall impact across all locations. Coating manufacturing (1-3) and transportation stages (1-2, 2-1, and 2-2) also have significant contributions, but to a lesser extent. End-of-life management and emissions from drying show small but nonzero contributions, which reflect the packaging waste and disposal-related emissions.

Production Stage

Polymers and film-forming agents are the dominant contributors to environmental impacts in the production stage. The synthetic polymers serve as the primary functional components of the curing compound. It generates for the majority of the global warming potential and fossil fuel depletion because of their petrochemical origins and energy intensive synthesis. The blending and mixing processes used to incorporate these polymers, along with associated chemical stabilizers, contribute significantly to smog formation and ozone depletion impacts. Because the VOCOMP®-25 product is produced domestically and distributed regionally, long-distance transport impacts are minimized. In terms of manufacturing, differences in electricity grids and natural gas sourcing across plants results in various energy-related impacts.

Design & Construction Stage

Transportation to the installation site via truck is the primary contributor in the construction stage. Although this stage contributes less than 10% of total impact in most categories, regional differences in transport distances and logistics create slight variation. For instance, Cartersville and Sherwood show slightly higher construction-stage GWP and smog emissions than Hampshire or Milton. Still, these impacts remain secondary compared to production.

Use & Maintenance Stage

Use-stage impacts are minimal across all plants. The water or energy consumption during use is not accounted for or because VOCOMPs are single-use products that do not require reapplication. The curing product remains inert during its service life, with no substantial emissions or operational burden.

End-of-life Stage

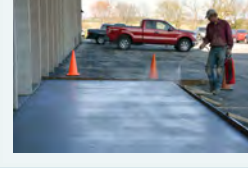
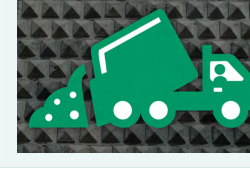
Overall, the end-of-life stage plays a limited role in the environmental profile of VOCOMP®-25, with most impacts confined to background waste treatment processes. At end-of-life, VOCOMP®-25 remains adhered to concrete surfaces and is not designed for removal before demolition. The dominant impacts in this stage is from the landfilling of concrete debris coated with residual product, where trace emissions may be released during material fragmentation or disposal handling. These contributions appear in global warming, acidification, and ecotoxicity categories but remain below 5% of the total life cycle impact. Packaging materials, primarily plastic pails or metal drums, also contribute minor burdens during disposal, particularly in fossil fuel depletion and respiratory effect categories.

How we're making it greener

- W. R. MEADOWS utilizes OEE (Overall Equipment Effectiveness) to optimize manufacturing processes and reduce energy consumption.
- OEE identifies inefficiencies and wasted energy: By monitoring equipment performance, it uncovers downtime, slow speeds, and quality defects.
- Energy-saving improvements through OEE: Meadows has achieved streamlined processes, better scheduling, reduced machine wear, and lower energy costs.
- Reduction in scrap and waste: OEE insights help identify performance issues, reducing defects, delays, and material waste while enhancing product quality.
- Supports sustainability and environmental goals: By lowering energy use and cutting carbon footprints, OEE fosters more sustainable manufacturing practices.

[See how we make it greener](#)

LCA results

LIFE CYCLE STAGE	PRODUCTION	CONSTRUCTION	USE	END OF LIFE
Information modules: Included (X) Excluded (MND)*	(X) 1-1 Raw materials manufacturing	(X) 2-1 Transportation to distribution center	(X) 3-1 Coating application	(X) 4-1 Transportation to disposal site
	(X) 1-2 Transportation of raw materials to plants	(X) 2-2 Transportation to point of sale/ Installation	(X) 3-2 Emission from drying	(X) 4-2 End-of-life management
	(X) 1-3 Coating manufacturing	(X) 2-3 Transportation to application site	(X) 3-3 Necessary maintenance and repair	
				

SM Single Score

[Learn about SM Single Score results](#)

Impacts per functional unit	1.15E-02 mPts	1.65E-03 mPts	1.65E-03 mPts	2.34E-04 mPts
Materials or processes contributing >20% to total impacts in each life cycle stage	Polymer resins and solvent components, along with manufacturing processes such as blending, emulsifying, and packaging.	Transportation of the product to the installation site.	Emission from drying.	Transport to waste facilities, background emissions from landfilling of coated concrete, and disposal of packaging waste.

Life cycle impact results per functional unit (Benicia, CA)

LIFE CYCLE STAGE		PRODUCTION		CONSTRUCTION		USE		END OF LIFE	
Ecological damage									
Impact category		Unit							
GWP, IPCC	TOTAL	kg CO ₂ eq	④	3.07E-01	2.33E-02	2.40E-02		4.03E-03	
GWP, IPCC	BIOGENIC	kg CO ₂ eq	④	-5.60E-03	0.00E+00	5.60E-03		0.00E+00	
GWP, IPCC	FOSSIL	kg CO ₂ eq	④	3.12E-01	2.33E-02	1.84E-02		4.03E-03	
GWP, TRACI 2.1	TOTAL	kg CO ₂ eq	④	3.00E-01	2.31E-02	2.35E-02		3.72E-03	
GWP, TRACI 2.1	BIOGENIC	kg CO ₂ eq	④	-5.60E-03	0.00E+00	5.60E-03		0.00E+00	
GWP, TRACI 2.1	FOSSIL	kg CO ₂ eq	④	3.05E-01	2.31E-02	1.79E-02		3.72E-03	
Ozone depletion		kg CFC-11 eq	④	5.27E-09	3.32E-10	2.52E-10		3.32E-11	
Acidification		kg SO ₂ eq	④	8.99E-04	5.70E-05	5.90E-05		9.32E-06	
Eutrophication		kg N eq	④	9.11E-05	3.88E-06	7.19E-06		9.30E-07	
Human health damage									
Impact category		Unit							
Smog		kg O ₃ eq	④	1.16E-02	1.46E-03	2.06E-02		2.81E-04	
Respiratory effects		kg PM _{2.5} eq	④	1.18E-04	7.86E-06	9.11E-06		1.20E-06	
Additional environmental information									
Impact category		Unit							
Carcinogenics		CTU _h	④	9.86E-10	1.48E-11	8.60E-11		1.90E-11	
Non-carcinogenics		CTU _h	④	1.58E-08	2.85E-09	1.11E-09		1.39E-09	
Ecotoxicity		CTU _e	④	1.52E-01	5.81E-02	7.79E-03		2.22E-03	
Fossil fuel depletion		MJ surplus	④	6.88E-01	4.40E-02	4.43E-02		3.75E-03	

Life cycle impact results per functional unit (Cartersville, GA)

Respiratory effects	kg PM _{2.5} eq ⓘ	1.18E-04	7.86E-06	9.11E-06	1.20E-06
---------------------	---------------------------	----------	----------	----------	----------

Additional environmental information

Impact category	Unit				
Carcinogenics	CTU _h ⓘ	9.86E-10	1.48E-11	8.60E-11	1.90E-11
Non-carcinogenics	CTU _h ⓘ	1.58E-08	2.85E-09	1.11E-09	1.39E-09
Ecotoxicity	CTU _e ⓘ	1.52E-01	5.81E-02	7.79E-03	2.22E-03
Fossil fuel depletion	MJ surplus ⓘ	6.88E-01	4.40E-02	4.43E-02	3.75E-03

Life cycle impact results per functional unit (Cartersville, GA)

LIFE CYCLE STAGE	PRODUCTION	CONSTRUCTION	USE	END OF LIFE
------------------	------------	--------------	-----	-------------

Ecological damage

Life cycle impact results per functional unit (Forth Worth, TX)

GWP, IPCC	FOSSIL	kg CO ₂ eq	1.95E-01	1.56E-02	1.84E-02	4.03E-03
GWP, TRACI 2.1	TOTAL	kg CO ₂ eq	1.85E-01	1.55E-02	2.35E-02	3.72E-03
GWP, TRACI 2.1	BIOGENIC	kg CO ₂ eq	-5.60E-03	0.00E+00	5.60E-03	0.00E+00
GWP, TRACI 2.1	FOSSIL	kg CO ₂ eq	1.90E-01	1.55E-02	1.79E-02	3.72E-03
Ozone depletion		kg CFC-11 eq	2.66E-09	2.22E-10	2.52E-10	3.32E-11
Acidification		kg SO ₂ eq	6.17E-04	3.82E-05	5.90E-05	9.32E-06
Eutrophication		kg N eq	7.43E-05	2.59E-06	7.19E-06	9.30E-07
Human health damage						
Impact category Unit						
Smog		kg O ₃ eq	8.19E-03	9.79E-04	2.06E-02	2.81E-04
Respiratory effects		kg PM _{2.5} eq	9.53E-05	5.26E-06	9.11E-06	1.20E-06
Additional environmental information						

Life cycle impact results per functional unit (Goodyear, AZ)

Non-carcinogenics	CTU _h	1.10E-08	1.91E-09	1.1E-09	1.39E-09
Ecotoxicity	CTU _e	9.00E-02	3.89E-02	7.79E-03	2.22E-03
Fossil fuel depletion	MJ surplus	4.62E-01	2.94E-02	4.43E-02	3.75E-03

Life cycle impact results per functional unit (Forth Worth, TX)

LIFE CYCLE STAGE		PRODUCTION	CONSTRUCTION	USE	END OF LIFE
Ecological damage					
Impact category	Unit				
GWP, IPCC _{TOTAL}	kg CO ₂ eq	2.05E-01	1.88E-02	2.40E-02	4.03E-03
GWP, IPCC _{BIOGENIC}	kg CO ₂ eq	-5.60E-03	0.00E+00	5.60E-03	0.00E+00
GWP, IPCC _{FOSSIL}	kg CO ₂ eq	2.09E-01	1.88E-02	1.84E-02	4.03E-03
GWP, TRACI 2.1 _{TOTAL}	kg CO ₂ eq	2.00E-01	1.86E-02	2.35E-02	3.72E-03
GWP, TRACI 2.1 _{BIOGENIC}	kg CO ₂ eq	-5.60E-03	0.00E+00	5.60E-03	0.00E+00
GWP, TRACI 2.1 _{FOSSIL}	kg CO ₂ eq	2.05E-01	1.86E-02	1.79E-02	3.72E-03
Ozone depletion	kg CFC-11 eq	3.50E-09	2.95E-10	2.52E-10	3.32E-11
Acidification	kg SO ₂ eq	7.07E-04	5.07E-05	5.90E-05	9.32E-06
Eutrophication	kg N eq	8.07E-05	3.44E-06	7.19E-06	9.30E-07
Human health damage					
Impact category	Unit				
Smog	kg O ₃ eq	9.64E-03	1.30E-03	2.06E-02	2.81E-04
Respiratory effects	kg PM _{2.5} eq	1.02E-04	6.98E-06	9.11E-06	1.20E-06
Additional environmental information					
Impact category	Unit				
Carcinogenics	CTU _h	9.12E-10	1.31E-11	8.60E-11	1.90E-11
Non-carcinogenics	CTU _h	1.10E-08	1.91E-09	1.1E-09	1.39E-09
Ecotoxicity	CTU _e	9.00E-02	3.89E-02	7.79E-03	2.22E-03
Fossil fuel depletion	MJ surplus	4.62E-01	2.94E-02	4.43E-02	3.75E-03

Life cycle impact results per functional unit (Hampshire, IL)

Acidification	kg SO ₂ eq	6.39E-04	4.93E-05	5.90E-05	9.32E-06
Eutrophication	kg N eq	7.65E-05	3.12E-06	7.19E-06	9.30E-07

Human health damage

Impact category	Unit				
Smog	kg O ₃ eq	9.07E-03	1.18E-03	2.06E-02	2.81E-04
Respiratory effects	kg PM _{2.5} eq	9.88E-05	6.32E-06	9.11E-06	1.20E-06

Additional environmental information

Impact category	Unit				
Carcinogenics	CTU _h	8.88E-10	1.19E-11	8.60E-11	1.90E-11
Non-carcinogenics	CTU _h	1.26E-08	2.29E-09	1.11E-09	1.39E-09
Ecotoxicity	CTU _e	1.23E-01	4.67E-02	7.79E-03	2.22E-03
Fossil fuel depletion	MJ surplus	4.89E-01	3.54E-02	4.43E-02	3.75E-03

Impact category	Unit					
Carcinogenics	CTU _h	?	8.88E-10	1.35E-11	8.60E-11	1.90E-11
Non-carcinogenics	CTU _h	?	1.11E-08	2.61E-09	1.11E-09	1.39E-09
Ecotoxicity	CTU _e	?	9.03E-02	5.31E-02	7.79E-03	2.22E-03
Fossil fuel depletion	MJ surplus	?	4.64E-01	4.02E-02	4.43E-02	3.75E-03

Life cycle impact results per functional unit (York, PA)

LIFE CYCLE STAGE		PRODUCTION	CONSTRUCTION	USE	END OF LIFE
Ecological damage					
Impact category	Unit				
GWP, IPCC _{TOTAL}	kg CO ₂ eq	? 2.00E-01	1.68E-02	2.40E-02	4.03E-03
GWP, IPCC _{BIOGENIC}	kg CO ₂ eq	? -5.60E-03	0.00E+00	5.60E-03	0.00E+00
GWP, IPCC _{FOSSIL}	kg CO ₂ eq	? 2.05E-01	1.68E-02	1.84E-02	4.03E-03
GWP, TRACI 2.1 _{TOTAL}	kg CO ₂ eq	? 1.95E-01	1.67E-02	2.35E-02	3.72E-03
GWP, TRACI 2.1 _{BIOGENIC}	kg CO ₂ eq	? -5.60E-03	0.00E+00	5.60E-03	0.00E+00
GWP, TRACI 2.1 _{FOSSIL}	kg CO ₂ eq	? 2.00E-01	1.67E-02	1.79E-02	3.72E-03
Ozone depletion	kg CFC-11 eq	? 3.03E-09	2.39E-10	2.52E-10	3.32E-11
Acidification	kg SO ₂ eq	? 6.56E-04	4.12E-05	5.90E-05	9.32E-06
Eutrophication	kg N eq	? 7.69E-05	2.80E-06	7.19E-06	9.30E-07
Human health damage					
Impact category	Unit				
Smog	kg O ₃ eq	? 8.72E-03	1.06E-03	2.06E-02	2.81E-04
Respiratory effects	kg PM _{2.5} eq	? 9.72E-05	5.67E-06	9.11E-06	1.20E-06
Additional environmental information					
Impact category	Unit				
Carcinogenics	CTU _h	? 8.93E-10	1.07E-11	8.60E-11	1.90E-11
Non-carcinogenics	CTU _h	? 1.18E-08	2.06E-09	1.11E-09	1.39E-09
Ecotoxicity	CTU _e	? 1.04E-01	4.19E-02	7.79E-03	2.22E-03
Fossil fuel depletion	MJ surplus	? 4.75E-01	3.17E-02	4.43E-02	3.75E-03

Life cycle impact results per functional unit (Milton, Ontario, Canada)

LIFE CYCLE STAGE		PRODUCTION	CONSTRUCTION	USE	END OF LIFE
Ecological damage					
Impact category	Unit				
GWP, IPCC _{TOTAL}	kg CO ₂ eq	? 2.04E-01	1.01E-01	2.40E-02	4.03E-03
GWP, IPCC _{BIOGENIC}	kg CO ₂ eq	? -5.60E-03	0.00E+00	5.60E-03	0.00E+00
GWP, IPCC _{FOSSIL}	kg CO ₂ eq	? 2.09E-01	1.01E-01	1.84E-02	4.03E-03
GWP, TRACI 2.1 _{TOTAL}	kg CO ₂ eq	? 1.99E-01	1.00E-01	2.35E-02	3.72E-03
GWP, TRACI 2.1 _{BIOGENIC}	kg CO ₂ eq	? -5.60E-03	0.00E+00	5.60E-03	0.00E+00
GWP, TRACI 2.1 _{FOSSIL}	kg CO ₂ eq	? 2.04E-01	1.00E-01	1.79E-02	3.72E-03
Ozone depletion	kg CFC-11 eq	? 2.86E-09	1.73E-09	2.52E-10	3.32E-11
Acidification	kg SO ₂ eq	? 6.53E-04	2.19E-04	5.90E-05	9.32E-06
Eutrophication	kg N eq	? 7.62E-05	1.46E-05	7.19E-06	9.30E-07
Human health damage					
Impact category	Unit				
Smog	kg O ₃ eq	? 9.15E-03	5.27E-03	2.06E-02	2.81E-04
Respiratory effects	kg PM _{2.5} eq	? 9.92E-05	2.66E-05	9.11E-06	1.20E-06
Additional environmental information					
Impact category	Unit				
Carcinogenics	CTU _h	? 8.85E-10	5.78E-11	8.60E-11	1.90E-11
Non-carcinogenics	CTU _h	? 1.28E-08	6.22E-09	1.11E-09	1.39E-09
Ecotoxicity	CTU _e	? 1.29E-01	1.18E-01	7.79E-03	2.22E-03
Fossil fuel depletion	MJ surplus	? 4.89E-01	1.85E-01	4.43E-02	3.75E-03

Life cycle impact results per functional unit (Sherwood, Alberta, Canada)

LIFE CYCLE STAGE		PRODUCTION	CONSTRUCTION	USE	END OF LIFE
Ecological damage					
Impact category	Unit				
GWP, IPCC _{TOTAL}	kg CO ₂ eq	? 2.21E-01	2.12E-02	2.40E-02	4.03E-03
GWP, IPCC _{BIOGENIC}	kg CO ₂ eq	? -5.60E-03	0.00E+00	5.60E-03	0.00E+00
GWP, IPCC _{FOSSIL}	kg CO ₂ eq	? 2.26E-01	2.12E-02	1.84E-02	4.03E-03
GWP, TRACI 2.1 _{TOTAL}	kg CO ₂ eq	? 2.16E-01	2.10E-02	2.35E-02	3.72E-03
GWP, TRACI 2.1 _{BIOGENIC}	kg CO ₂ eq	? -5.60E-03	0.00E+00	5.60E-03	0.00E+00
GWP, TRACI 2.1 _{FOSSIL}	kg CO ₂ eq	? 2.21E-01	2.10E-02	1.79E-02	3.72E-03
Ozone depletion	kg CFC-11 eq	? 3.07E-09	3.02E-10	2.52E-10	3.32E-11
Acidification	kg SO ₂ eq	? 7.34E-04	5.19E-05	5.90E-05	9.32E-06
Eutrophication	kg N eq	? 8.40E-05	3.53E-06	7.19E-06	9.30E-07
Human health damage					
Impact category	Unit				
Smog	kg O ₃ eq	? 9.27E-03	1.33E-03	2.06E-02	2.81E-04
Respiratory effects	kg PM _{2.5} eq	? 1.01E-04	7.15E-06	9.11E-06	1.20E-06
Additional environmental information					
Impact category	Unit				
Carcinogenics	CTU _h	? 9.31E-10	1.34E-11	8.60E-11	1.90E-11
Non-carcinogenics	CTU _h	? 1.20E-08	2.59E-09	1.11E-09	1.39E-09
Ecotoxicity	CTU _e	? 9.54E-02	5.29E-02	7.79E-03	2.22E-03
Fossil fuel depletion	MJ surplus	? 4.98E-01	4.00E-02	4.43E-02	3.75E-03

References

LCA Background Report
LCA of W. R. MEADOWS Concrete curing products, 2025. Developed using the [IPCC Fifth Assessment Report \(AR5\) 100-year time, TRACI v2.1, CML](#), and [Cumulative Energy Demand \(LHV\)](#) impact assessment methodologies, [SimaPro Analyst 9.6 software](#), and [ecoinvent v3.10](#) and US-EI 2.2 databases.

ISO 14025:2006 Environmental labels and declarations — Type III environmental declarations — Principles and procedures

ISO 21930:2017, Sustainability in buildings and civil engineering works -- Core rules for environmental product declarations of construction products and services

NSF Product Category Rule for Environmental Product Declarations: Architectural Coatings: NAICS 325510, version 2 extended through June 30, 2025.

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. Environmental declarations from different programs (ISO 14025) may not be comparable. Comparison of the environmental performance using EPD information shall consider all relevant information modules over the full life cycle of the products within the building. This PCR allows EPD comparability only when the same functional requirements between products are ensured and the requirements of ISO 21930:2017 §5.5 are met. It should be noted that different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared. LCIA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks. These six impact categories are globally deemed mature enough to be included in Type III environmental declarations. Other categories are being developed and defined and LCA should continue making advances in their development. However, the EPD users shall not use additional measures for comparative purposes. Comparison of the environmental performance of structural and architectural wood products using EPD information shall be based on the product's use and impacts at the construction works level, and therefore EPDs may not be used for comparability purposes when not considering the construction works energy use phase as instructed under this PCR. Full conformance with the PCR for structural and architectural wood products allows EPD comparability only when all stages of a life cycle have been considered, when they comply with all referenced standards, use the same sub-category Part B PCR, and use equivalent scenarios with respect to construction works. However, variations and deviations are possible. Example of variations: Different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared.

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

Collaborative for High Performance Schools National Criteria
MW C5.1 – Environmental Product Declarations

Third-party certified type III EPD

2 points

Green Globes for New Construction and Sustainable Interiors
Materials and resources

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

NC 3.5.2.2 and SI 4.1.2 Path B: Prescriptive Path for Interior Fit-outs

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)™

EPD

3rd-party reviewed

Transparency Report (EPD)

3rd-party verified

LCA

This environmental product declaration (EPD) was externally verified by Lindita Bushi, PhD, Senior Research Associate at Athena, according to ISO 21930:2017; NSF PCR for Architectural Coatings; and ISO 14025:2006.

Athena Sustainable Materials Institute

600 Grings Hill Road
Sinking Spring, PA 19608
<https://www.athenasmi.org/>
(610) 985-0933



Athena

Sustainable Materials

Institute

SUMMARY

Reference PCR

NSF PCR for Architectural Coatings

Regions; system boundaries

North America; Cradle-to-grave

Functional unit: 1 m²

LCIA methodology: TRACI 2.1

LCA software; LCI database

SimaPro Developer 9.6; ecoinvent v3.10, US-EI 2.2

Public LCA:

LCA of W. R. MEADOWS VOCOMP and MEL-PRIME

In accordance with ISO 14044 and the reference PCR, this life cycle assessment was conducted by Sustainable Minds and reviewed by Lindita Bushi, PhD, Senior Research Associate at Athena.

W.R. MEADOWS, Inc.

300 Industrial Drive
P.O. Box 338
Hampshire, IL 60140-0338
wrmeadows.com
(800) 342-5976

Contact us

© 2025 | The SM Transparency Report (EPD)™ Program is operated by Sustainable Minds® (www.sustainableminds.com) | [Privacy policy](#)

RPRM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RPRtotal	MJ, NCV	6.20E-02	6.84E-05	2.62E-02	4.97E-04	3.77E-04	0	6.21E-03	3.00E-06	0	1.30E-05	7.47E-05	9.55E-02
NRPRE	MJ, NCV	2.46E+00	4.47E-02	1.82E+00	3.25E-01	2.46E-01	0	2.46E-01	3.41E-04	0	7.21E-03	8.50E-03	5.16E+00
NRPRM	MJ, NCV	9.95E-01	0	0	0	0	0	9.95E-02	0	0	0	0	1.09E+00
NRPRtotal	MJ, NCV	3.46E+00	4.47E-02	1.82E+00	3.25E-01	2.46E-01	0	3.46E-01	3.41E-04	0	7.21E-03	8.50E-03	6.25E+00
ADP	kg	0	2.20E+00	4.19E-02	1.66E+00	3.05E-01	2.31E-01	0	2.20E-01	3.17E-04	0	6.77E-03	4.66E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	2.36E-01	3.32E-04	1.40E-01	2.41E-03	1.83E-03	0	2.36E-02	1.99E-05	0	5.66E-05	4.95E-04	4.04E-01
Output flows and waste category indicators													
HWD	kg												
NHWD	kg	2.93E-03	9.76E-06	1.06E-03	7.09E-05	5.38E-05	0	2.93E-04	1.52E-07	0	2.77E-07	3.78E-06	4.42E-03
HLRW	kg	1.91E-02	3.86E-05	2.32E-01	2.81E-04	2.13E-04	0	8.84E-03	6.93E-03	0	6.01E-06	1.73E-01	4.40E-01
ILLRW	kg	2.04E-07	5.15E-10	1.56E-07	3.72E-09	2.82E-09	0	2.05E-08	1.59E-11	0	9.20E-11	3.97E-10	3.88E-07
CRU	kg	6.91E-07	1.01E-09	3.93E-07	7.28E-09	5.52E-09	0	6.91E-08	3.69E-11	0	2.10E-10	9.18E-10	1.17E-06
MR	kg	0	0	0	0	0	0	0	0	0	0	0	0
MER	kg	4.27E-04	0	0	0	4.07E-03	0	0	0	0	0	0	4.50E-03
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2												
BCRK	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEK	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CBCEW	kg CO2	-1.08E-03	0	-7.49E-03	0	0	0	0	0	0	0	0	-8.57E-03
CCE	kg CO2	0	0	1.08E-03	0	0	0	7.49E-03	0	0	0	0	8.57E-03
CCR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CWNR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0

LCIA results, resource use, output and waste flows, and carbon emissions & removals per functional unit (1m2) of VOCOMP®-20 (Forth Worth, TX)

Parameter	Unit	1-1	1-2	1-3	2-1	2-2	2-3	3-1	3-2	3-3	4-1	4-2	Total
LCIA results													
GWP, IPCCTOTAL	kg CO2 eq	1.15E-01	1.15E-02	1.77E-02	1.06E-02	1.74E-02	0	1.92E-02	1.31E-04	0	4.88E-05	3.26E-03	1.95E-01
GWP, IPCCBIOGENIC	kg CO2 eq	-1.08E-03	0	-6.41E-03	0	0	0	7.49E-03	0	0	0	0	0
GWP, IPCCFOSSIL	kg CO2 eq	1.16E-01	1.15E-02	2.41E-02	1.06E-02	1.74E-02	0	1.17E-02	1.31E-04	0	4.88E-05	3.26E-03	1.95E-01
GWP, TRACI 2.1TOTAL	kg CO2 eq	1.12E-01	1.14E-02	1.83E-02	1.05E-02	1.72E-02	0	1.89E-02	1.16E-04	0	4.82E-05	2.88E-03	1.91E-01
GWP, TRACI 2.1BIOGENIC	kg CO2 eq	-1.08E-03	0	-6.41E-03	0	0	0	7.49E-03	0	0	0	0	0
GWP, TRACI 2.1FOSSIL	kg CO2 eq	1.13E-01	1.14E-02	2.47E-02	1.05E-02	1.72E-02	0	1.14E-02	1.16E-04	0	4.82E-05	2.88E-03	1.91E-01
Ozone depletion	kg CFC-11 eq	1.61E-09	1.64E-10	2.09E-10	1.51E-10	2.47E-10	0	1.61E-10	3.96E-13	0	7.97E-13	9.85E-12	2.55E-09
Acidification	kg SO2 eq	3.77E-04	2.81E-05	7.65E-05	2.60E-05	4.24E-05	0	3.78E-05	9.09E-08	0	2.35E-07	2.26E-06	5.91E-04
Eutrophication	kg N eq	5.29E-05	1.91E-06	7.01E-06	1.77E-06	2.88E-06	0	5.32E-06	2.39E-08	0	1.49E-08	5.96E-07	7.25E-05
Smog	kg O3 eq	4.89E-03	7.21E-04	1.17E-03	6.67E-04	1.09E-03	0	4.91E-04	9.78E-03	0	7.23E-06	6.25E-05	1.89E-02
Respiratory effects	kg PM2.5 eq	5.87E-05	3.87E-06	1.41E-05	3.58E-06	5.84E-06	0	5.88E-06	1.33E-08	0	2.94E-08	3.31E-07	9.24E-05
Additional environmental information													
Carcinogenics	CTUh	5.46E-10	7.27E-12	2.87E-10	6.73E-12	1.10E-11	0	5.56E-11	1.00E-12	0	1.03E-14	2.50E-11	9.39E-10
Non-carcinogenics	CTUh	6.41E-09	1.41E-09	1.92E-09	1.30E-09	2.12E-09	0	7.12E-10	7.07E-11	0	2.13E-12	1.76E-09	1.57E-08
Ecotoxicity	CTUe	4.90E-02	2.86E-02	3.21E-02	2.65E-02	4.32E-02	0	5.01E-03	1.08E-04	0	6.22E-06	2.70E-03	1.87E-01
Fossil fuel depletion	MJ surplus	2.77E-01	2.17E-02	1.96E-02	2.01E-02	3.27E-02	0	2.77E-02	4.38E-05	0	9.03E-05	1.09E-03	4.00E-01
Resource use indicators													
RPRE	MJ, NCV	6.20E-02	2.50E-04	2.03E-02	2.31E-04	3.77E-04	0	6.21E-03	3.00E-06	0	1.30E-05	7.47E-05	8.95E-02
RPRM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RPRtotal	MJ, NCV	6.20E-02	2.50E-04	2.03E-02	2.31E-04	3.77E-04	0	6.21E-03	3.00E-06	0	1.30E-05	7.47E-05	8.95E-02
NRPRE	MJ, NCV	2.46E+00	1.63E-01	2.99E-01	1.51E-01	2.46E-01	0	2.46E-01	3.41E-04	0	7.21E-03	8.50E-03	3.58E+00
NRPRM	MJ, NCV	9.95E-01	0	0	0	0	0	9.95E-02	0	0	0	0	1.09E+00
NRPRtotal	MJ, NCV	3.46E+00	1.63E-01	2.99E-01	1.51E-01	2.46E-01	0	3.46E-01	3.41E-04	0	7.21E-03	8.50E-03	4.68E+00
ADP	kg	0	2.20E+00	1.53E-01	2.61E-01	1.42E-01	2.31E-01	0	2.20E-01	3.17E-04	0	6.77E-03	3.21E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	2.36E-01	1.21E-03	5.47E-02	1.12E-03	1.83E-03	0	2.36E-02	1.99E-05	0	5.66E-05	4.95E-04	3.19E-01
Output flows and waste category indicators													
HWD	kg	2.93E-03	3.57E-05	4.29E-04	3.30E-05	5.38E-05	0	2.93E-04	1.52E-07	0	2.77E-07	3.78E-06	3.78E-03
NHWD	kg	1.91E-02	1.41E-04	6.60E-03	1.31E-04	2.13E-04	0	8.84E-03	6.93E-03	0	6.01E-06	1.73E-01	2.15E-01
HLRW	kg	2.04E-07	1.88E-09	4.21E-08	1.73E-09	2.82E-09	0	2.05E-08	1.59E-11	0	9.20E-11	3.97E-10	2.74E-07
ILLRW	kg	6.91E-07	3.68E-09	1.58E-07	3.39E-09	5.52E-09	0	6.91E-08	3.69E-11	0	2.10E-10	9.18E-10	9.32E-07
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MR	kg	4.27E-04	0	0	0	4.07E-03	0	0	0	0	0	0	4.50E-03
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-1.08E-03	0	-7.49E-03	0	0	0	0	0	0	0	0	-8.57E-03
BCEK	kg CO2	0	0	1.08E-03	0	0	0	7.49E-03	0	0	0	0	8.57E-03
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CWNR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0

LCIA results, resource use, output and waste flows, and carbon emissions & removals per functional unit (1m2) of VOCOMP®-20 (Goodyear, AZ)

LCIA results		1-1	1-2	1-3	2-1	2-2	2-3	3-1	3-2	3-3	4-1	4-2	Total
GWP, IPCCTOTAL	kg CO2 eq	1.15E-01	1.27E-02	2.99E-02	1.48E-02	1.74E-02	0	1.92E-02	1.31E-04	0	4.88E-05	3.26E-03	2.12E-01
GWP, IPCCBIOGENIC	kg CO2 eq	-1.08E-03	0	-6.41E-03	0	0	0	7.49E-03	0	0	0	0	0
GWP, IPCCFOSSIL	kg CO2 eq	1.16E-01	1.27E-02	3.63E-02	1.48E-02	1.74E-02	0	1.17E-02	1.31E-04	0	4.88E-05	3.26E-03	2.12E-01
GWP, TRACI 2.1TOTAL	kg CO2 eq	1.12E-01	1.25E-02	3.13E-02	1.46E-02	1.72E-02	0	1.89E-02	1.16E-04	0	4.82E-05	2.88E-03	2.10E-01
GWP, TRACI 2.1BIOGENIC	kg CO2 eq	-1.08E-03	0	-6.41E-03	0	0	0	7.49E-03	0	0	0	0	0
GWP, TRACI 2.1FOSSIL	kg CO2 eq	1.13E-01	1.25E-02	3.78E-02	1.46E-02	1.72E-02	0	1.14E-02	1.16E-04	0	4.82E-05	2.88E-03	2.10E-01
Ozone depletion	kg CFC-11 eq	1.61E-09	1.80E-10	9.70E-10	2.10E-10	2.47E-10	0	1.61E-10	3.96E-13	0	7.97E-13	9.85E-12	3.39E-09
Acidification	kg SO2 eq	3.77E-04	3.10E-05	1.22E-04	3.61E-05	4.24E-05	0	3.78E-05	9.09E-08	0	2.35E-07	2.26E-06	6.50E-04
Eutrophication	kg N eq	5.29E-05	2.11E-06	1.33E-05	2.45E-06	2.88E-06	0	5.32E-06	2.39E-08	0	1.49E-08	5.96E-07	7.97E-05
Smog	kg O3 eq	4.89E-03	7.96E-04	1.54E-03	9.26E-04	1.09E-03	0	4.91E-04	9.78E-03	0	7.23E-06	6.25E-05	1.96E-02
Respiratory effects	kg PM2.5 eq	5.87E-05	4.27E-06	1.82E-05	4.97E-06	5.84E-06	0	5.88E-06	1.33E-08	0	2.94E-08	3.31E-07	9.82E-05
Additional environmental information													
Carcinogenics	CTUh	5.46E-10	8.03E-12	3.13E-10	9.34E-12	1.10E-11	0	5.56E-11	1.00E-12	0	1.03E-14	2.50E-11	9.68E-10
Non-carcinogenics	CTUh	6.41E-09	1.55E-09	1.92E-09	1.80E-09	2.12E-09	0	7.12E-10	7.07E-11	0	2.13E-12	1.76E-09	1.64E-08
Ecotoxicity	CTUe	4.90E-02	3.16E-02	3.65E-02	3.68E-02	4.32E-02	0	5.01E-03	1.08E-04	0	6.22E-06	2.70E-03	2.05E-01
Fossil fuel depletion	MJ surplus	2.77E-01	2.39E-02	4.60E-02	2.78E-02	3.27E-02	0	2.77E-02	4.38E-05	0	9.03E-05	1.09E-03	4.36E-01
Resource use indicators													
RPRE	MJ, NCV	6.20E-02	2.76E-04	3.88E-02	3.21E-04	3.77E-04	0	6.21E-03	3.00E-06	0	1.30E-05	7.47E-05	1.08E-01
RPRM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RPRtotal	MJ, NCV	6.20E-02	2.76E-04	3.88E-02	3.21E-04	3.77E-04	0	6.21E-03	3.00E-06	0	1.30E-05	7.47E-05	1.08E-01
NRPRE	MJ, NCV	2.46E+00	1.80E-01	6.12E-01	2.10E-01	2.46E-01	0	2.46E-01	3.41E-04	0	7.21E-03	8.50E-03	3.97E+00
NRPRM	MJ, NCV	9.95E-01	0	0	0	0	0	9.95E-02	0	0	0	0	1.09E+00
NRPRtotal	MJ, NCV	3.46E+00	1.80E-01	6.12E-01	2.10E-01	2.46E-01	0	3.46E-01	3.41E-04	0	7.21E-03	8.50E-03	5.07E+00
ADP	kg	0	2.20E+00	1.69E-01	4.31E-01	1.97E-01	2.31E-01	0	2.20E-01	3.17E-04	0	6.77E-03	3.45E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	2.36E-01	1.34E-03	1.21E-01	1.56E-03	1.83E-03	0	2.36E-02	1.99E-05	0	5.66E-05	4.95E-04	3.85E-01
Output flows and waste category indicators													
HWD	kg	2.93E-03	3.94E-05	5.05E-04	4.58E-05	5.38E-05	0	2.93E-04	1.52E-07	0	2.77E-07	3.78E-06	3.87E-03
NHWD	kg	1.91E-02	1.56E-04	9.53E-03	1.81E-04	2.13E-04	0	8.84E-03	6.93E-03	0	6.01E-06	1.73E-01	2.18E-01
HLRW	kg	2.04E-07	2.08E-09	4.95E-08	2.40E-09	2.82E-09	0	2.05E-08	1.59E-11	0	9.20E-11	3.97E-10	2.82E-07
ILLRW	kg	6.91E-07	4.07E-09	1.35E-06	4.70E-09	5.52E-09	0	6.91E-08	3.69E-11	0	2.10E-10	9.18E-10	2.13E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MR	kg	4.27E-04	0	0	0	4.07E-03	0	0	0	0	0	0	4.50E-03
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-1.08E-03	0	-7.49E-03	0	0	0	0	0	0	0	0	-8.57E-03
BCEK	kg CO2	0	0	1.08E-03	0	0	0	7.49E-03	0	0	0	0	8.57E-03
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CWNR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
LCIA results, resource use, output and waste flows, and carbon emissions & removals per functional unit (1m2) of VOCOMP®-20 (Hampshire, IL)													
Parameter	Unit	1-1	1-2	1-3	2-1	2-2	2-3	3-1	3-2	3-3	4-1	4-2	Total

Carcinogenics	CTUh	5.46E-10	1.99E-12	3.03E-10	5.48E-12	1.10E-11	0	5.56E-11	1.00E-12	0	1.03E-14	2.50E-11	9.48E-10
Non-carcinogenics	CTUh	6.41E-09	3.84E-10	2.43E-09	1.06E-09	2.12E-09	0	7.12E-10	7.07E-11	0	2.13E-12	1.76E-09	1.50E-08
Ecotoxicity	CTUe	4.90E-02	7.83E-03	2.97E-02	2.16E-02	4.32E-02	0	5.01E-03	1.08E-04	0	6.22E-06	2.70E-03	1.59E-01
Fossil fuel depletion	MJ surplus	2.77E-01	5.93E-03	2.29E-02	1.63E-02	3.27E-02	0	2.77E-02	4.38E-05	0	9.03E-05	1.09E-03	3.83E-01
Resource use indicators													
RPRE	MJ, NCV	6.20E-02	6.84E-05	1.85E-02	1.89E-04	3.77E-04	0	6.21E-03	3.00E-06	0	1.30E-05	7.47E-05	8.74E-02
RPRM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RPRtotal	MJ, NCV	6.20E-02	6.84E-05	1.85E-02	1.89E-04	3.77E-04	0	6.21E-03	3.00E-06	0	1.30E-05	7.47E-05	8.74E-02
NRPRE	MJ, NCV	2.46E+00	4.47E-02	4.42E-01	1.23E-01	2.46E-01	0	2.46E-01	3.41E-04	0	7.21E-03	8.50E-03	3.58E+00
NRPRM	MJ, NCV	9.95E-01	0	0	0	0	0	9.95E-02	0	0	0	0	1.09E+00
NRPRtotal	MJ, NCV	3.46E+00	4.47E-02	4.42E-01	1.23E-01	2.46E-01	0	3.46E-01	3.41E-04	0	7.21E-03	8.50E-03	4.67E+00
ADP	kg	0	2.20E+00	4.19E-02	3.59E-01	1.16E-01	2.31E-01	0	2.20E-01	3.17E-04	0	6.77E-03	3.17E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	2.36E-01	3.32E-04	5.14E-02	9.14E-04	1.83E-03	0	2.36E-02	1.99E-05	0	5.66E-05	4.95E-04	3.14E-01
Output flows and waste category indicators													
HWD	kg	2.93E-03	9.76E-06	3.63E-04	2.69E-05	5.38E-05	0	2.93E-04	1.52E-07	0	2.77E-07	3.78E-06	3.68E-03
NHWD	kg	1.91E-02	3.86E-05	5.60E-03	1.06E-04	2.13E-04	0	8.84E-03	6.93E-03	0	6.01E-06	1.73E-01	2.13E-01
HLRW	kg	2.04E-07	5.15E-10	3.57E-08	1.41E-09	2.82E-09	0	2.05E-08	1.59E-11	0	9.20E-11	3.97E-10	2.66E-07
ILLRW	kg	6.91E-07	1.01E-09	5.04E-07	2.76E-09	5.52E-09	0	6.91E-08	3.69E-11	0	2.10E-10	9.18E-10	1.27E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MR	kg	4.27E-04	0	0	0	4.07E-03	0	0	0	0	0	0	4.50E-03
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-1.08E-03	0	-7.49E-03	0	0	0	0	0	0	0	0	-8.57E-03
BCEK	kg CO2	0	0	1.08E-03	0	0	0	7.49E-03	0	0	0	0	8.57E-03
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CWNR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0

LCIA results, resource use, output and waste flows, and carbon emissions & removals per functional unit (1m2) of VOCOMP®-20 (York, PA)

Parameter	Unit	1-1	1-2	1-3	2-1	2-2	2-3	3-1	3-2	3-3	4-1	4-2	Total
LCIA results													
GWP, IPCCTOTAL	kg CO2 eq	1.15E-01	4.82E-02	1.36E-02	4.96E-03	1.74E-02	0	1.92E-02	1.31E-04	0	4.88E-05	3.26E-03	2.22E-01
GWP, IPCCBIOGENIC	kg CO2 eq	-1.08E-03	0	-6.41E-03	0	0	0	7.49E-03	0	0	0	0	0
GWP, IPCCFOSSIL	kg CO2 eq	1.16E-01	4.82E-02	2.00E-02	4.96E-03	1.74E-02	0	1.17E-02	1.31E-04	0	4.88E-05	3.26E-03	2.22E-01
GWP, TRACI 2.1TOTAL	kg CO2 eq	1.12E-01	4.76E-02	1.43E-02	4.90E-03	1.72E-02	0	1.89E-02	1.16E-04	0	4.82E-05	2.88E-03	2.18E-01
GWP, TRACI 2.1BIOGENIC	kg CO2 eq	-1.08E-03	0	-6.41E-03	0	0	0	7.49E-03	0	0	0	0	0
GWP, TRACI 2.1FOSSIL	kg CO2 eq	1.13E-01	4.76E-02	2.08E-02	4.90E-03	1.72E-02	0	1.14E-02	1.16E-04	0	4.82E-05	2.88E-03	2.18E-01
Ozone depletion	kg CFC-11 eq	1.61E-09	6.85E-10	5.55E-10	7.04E-11	2.47E-10	0	1.61E-10	3.96E-13	0	7.97E-13	9.85E-12	3.34E-09
Acidification	kg SO2 eq	3.77E-04	1.18E-04	8.99E-05	1.21E-05	4.24E-05	0	3.78E-05	9.09E-08	0	2.35E-07	2.26E-06	6.80E-04
Eutrophication	kg N eq	5.29E-05	8.00E-06	9.40E-06	8.23E-07	2.88E-06	0	5.32E-06	2.39E-08	0	1.49E-08	5.96E-07	8.00E-05
Smog	kg O3 eq	4.89E-03	3.02E-03	1.20E-03	3.11E-04	1.09E-03	0	4.91E-04	9.78E-03	0	7.23E-06	6.25E-05	2.09E-02
Respiratory effects	kg PM2.5 eq	5.87E-05	1.62E-05	1.64E-05	1.67E-06	5.84E-06	0	5.88E-06	1.33E-08	0	2.94E-08	3.31E-07	1.05E-04
Additional environmental information													
Carcinogenics	CTUh	5.46E-10	3.05E-11	2.91E-10	3.13E-12	1.10E-11	0	5.56E-11	1.00E-12	0	1.03E-14	2.50E-11	9.62E-10
Non-carcinogenics	CTUh	6.41E-09	5.88E-09	1.68E-09	6.05E-09	2.12E-09	0	7.12E-10	7.07E-11	0	2.13E-12	1.76E-09	1.92E-08
Ecotoxicity	CTUe	4.90E-02	1.20E-01	3.57E-02	1.23E-02	4.32E-02	0	5.01E-03	1.08E-04	0	6.22E-06	2.70E-03	2.68E-01
Fossil fuel depletion	MJ surplus	2.77E-01	9.08E-02	1.80E-02	9.34E-03	3.27E-02	0	2.77E-02	4.38E-05	0	9.03E-05	1.09E-03	4.56E-01
Resource use indicators													
RPRE	MJ, NCV	6.20E-02	1.40E-04	1.54E-02	1.08E-04	3.77E-04	0	6.21E-03	3.00E-06	0	1.30E-05	7.47E-05	8.44E-02
RPRM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RPRtotal	MJ, NCV	6.20E-02	1.40E-04	1.54E-02	1.08E-04	3.77E-04	0	6.21E-03	3.00E-06	0	1.30E-05	7.47E-05	8.44E-02
NRPRE	MJ, NCV	2.46E+00	9.13E-02	2.97E-01	7.04E-02	2.46E-01	0	2.46E-01	3.41E-04	0	7.21E-03	8.50E-03	3.43E+00
NRPRM	MJ, NCV	9.95E-01	0	0	0	0	0	9.95E-02	0	0	0	0	1.09E+00
NRPRtotal	MJ, NCV	3.46E+00	9.13E-02	2.97E-01	7.04E-02	2.46E-01	0	3.46E-01	3.41E-04	0	7.21E-03	8.50E-03	4.52E+00
ADP	kg	0	2.20E+00	8.57E-02	2.17E-01	6.61E-02	2.31E-01	0	2.20E-01	3.17E-04	0	6.77E-03	3.02E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	2.36E-01	6.78E-04	6.82E-02	5.22E-04	1.83E-03	0	2.36E-02	1.99E-05	0	5.66E-05	4.95E-04	3.31E-01
Output flows and waste category indicators													
HWD	kg	2.93E-03	1.99E-05	5.05E-04	1.54E-05	5.38E-05	0	2.93E-04	1.52E-07	0	2.77E-07	3.78E-06	3.82E-03
NHWD	kg	1.91E-02	7.89E-05	7.75E-03	6.08E-05	2.13E-04	0	8.84E-03	6.93E-03	0	6.01E-06	1.73E-01	2.16E-01
HLRW	kg	2.04E-07	1.06E-09	4.95E-08	8.06E-10	2.82E-09	0	2.05E-08	1.59E-11	0	9.20E-11	3.97E-10	2.80E-07
ILLRW	kg	6.91E-07	2.07E-09	6.04E-07	1.58E-09	5.52E-09	0	6.91E-08	3.69E-11	0	2.10E-10	9.18E-10	1.37E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MR	kg	4.27E-04	0	0	0	4.07E-03	0	0	0	0	0	0	4.50E-03
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-1.08E-03	0	-7.49E-03	0	0	0	0	0	0	0	0	-8.57E-03
BCEK	kg CO2	0	0	1.08E-03	0	0	0	7.49E-03	0	0	0	0	8.57E-03
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CWNR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0

LCIA results, resource use, output and waste flows, and carbon emissions & removals per functional unit (1m2) of VOCOMP®-20 (Milton, Ontario, Canada)

Parameter	Unit	1-1	1-2	1-3	2-1	2-2	2-3	3-1	3-2	3-3	4-1	4-2	Total
LCIA results													
GWP, IPCCTOTAL	kg CO2 eq	1.15E-01	1.27E-02	8.83E-03	2.53E-02	1.74E-02	0	1.92E-02	1.31E-04	0	4.88E-05	3.26E-03	2.02E-01
GWP, IPCCBIOGENIC	kg CO2 eq	-1.08E-03	0	-6.41E-03	0	0	0	7.49E-03	0	0	0	0	0
GWP, IPCCFOSSIL	kg CO2 eq	1.16E-01	1.27E-02	1.52E-02	2.53E-02	1.74E-02	0	1.17E-02	1.31E-04	0	4.88E-05	3.26E-03	2.02E-01
GWP, TRACI 2.1TOTAL	kg CO2 eq	1.12E-01	1.25E-02	9.63E-03	2.50E-02	1.72E-02	0	1.89E-02	1.16E-04	0	4.82E-05	2.88E-03	1.98E-01
GWP, TRACI 2.1BIOGENIC	kg CO2 eq	-1.08E-03	0	-6.41E-03	0	0	0	7.49E-03	0	0	0	0	0
GWP, TRACI 2.1FOSSIL	kg CO2 eq	1.13E-01	1.25E-02	1.60E-02	2.50E-02	1.72E-02	0	1.14E-02	1.16E-04	0	4.82E-05	2.88E-03	1.98E-01
Ozone depletion	kg CFC-11 eq	1.61E-09	1.80E-10	4.48E-10	3.60E-10	2.47E-10	0	1.61E-10	3.96E-13	0	7.97E-13	9.85E-12	3.01E-09
Acidification	kg SO2 eq	3.77E-04	3.10E-05	5.65E-05	6.18E-05	4.24E-05	0	3.78E-05	9.09E-08	0	2.35E-07	2.26E-06	6.10E-04
Eutrophication	kg N eq	5.29E-05	2.11E-06	6.15E-06	4.20E-06	2.88E-06	0	5.32E-06	2.39E-08	0	1.49E-08	5.96E-07	7.42E-05
Smog	kg O3 eq	4.89E-03	7.96E-04	9.58E-04	1.59E-03	1.09E-03	0	4.91E-04	9.78E-03	0	7.23E-06	6.25E-05	1.97E-02
Respiratory effects	kg PM2.5 eq	5.87E-05	4.27E-06	1.39E-05	8.52E-06	5.84E-06	0	5.88E-06	1.33E-08	0	2.94E-08	3.31E-07	9.75E-05
Additional environmental information													
Carcinogenics	CTUh	5.46E-10	8.03E-12	2.74E-10	1.60E-11	1.10E-11	0	5.56E-11	1.00E-12	0	1.03E-14	2.50E-11	9.36E-10
Non-carcinogenics	CTUh	6.41E-09	1.55E-09	1.54E-09	3.09E-09	2.12E-09	0	7.12E-10	7.07E-11	0	2.13E-12	1.76E-09	1.73E-08
Ecotoxicity	CTUe	4.90E-02	3.16E-02	3.37E-02	6.30E-02	4.32E-02	0	5.01E-03	1.08E-04	0	6.22E-06	2.70E-03	2.28E-01
Fossil fuel depletion	MJ surplus	2.77E-01	2.39E-02	1.29E-02	4.77E-02	3.27E-02	0	2.77E-02	4.38E-05	0	9.03E-05	1.09E-03	4.23E-01
Resource use indicators													
RPRE	MJ, NCV	6.20E-02	2.76E-04	2.15E-02	5.51E-04	3.77E-04	0	6.21E-03	3.00E-06	0	1.30E-05	7.47E-05	9.11E-02
RPRM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RPRtotal	MJ, NCV	6.20E-02	2.76E-04	2.15E-02	5.51E-04	3.77E-04	0	6.21E-03	3.00E-06	0	1.30E-05	7.47E-05	9.11E-02
NRPRE	MJ, NCV	2.46E+00	1.80E-01	2.50E-01	3.59E-01	2.46E-01	0	2.46E-01	3.41E-04	0	7.21E-03	8.50E-03	3.76E+00
NRPRM	MJ, NCV	9.95E-01	0	0	0	0	0	9.95E-02	0	0	0	0	1.09E+00
NRPRtotal	MJ, NCV	3.46E+00	1.80E-01	2.50E-01	3.59E-01	2.46E-01	0	3.46E-01	3.41E-04	0	7.21E-03	8.50E-03	4.86E+00
ADP	kg	0	2.20E+00	1.69E-01	1.62E-01	3.37E-01	2.31E-01	0	2.20E-01	3.17E-04	0	6.77E-03	3.32E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	2.36E-01	1.34E-03	1.25E-01	2.67E-03	1.83E-03	0	2.36E-02	1.99E-05	0	5.66E-05	4.95E-04	3.90E-01
Output flows and waste category indicators													
HWD	kg												
NHWD	kg	2.93E-03	3.94E-05	4.75E-04	7.85E-05	5.38E-05	0	2.93E-04	1.52E-07	0	2.77E-07	3.78E-06	3.88E-03
HLRW	kg	1.91E-02	1.56E-04	7.29E-03	3.11E-04	2.13E-04	0	8.84E-03	6.93E-03	0	6.01E-06	1.73E-01	2.15E-01
ILLRW	kg	2.04E-07	2.08E-09	4.66E-08	4.11E-09	2.82E-09	0	2.05E-08	1.59E-11	0	9.20E-11	3.97E-10	2.81E-07
CRU	kg	6.91E-07	4.07E-09	7.26E-07	8.05E-09	5.52E-09	0	6.91E-08	3.69E-11	0	2.10E-10	9.18E-10	1.50E-06
MR	kg	0	0	0	0	0	0	0	0	0	0	0	0
MER	kg	4.27E-04	0	0	0	4.07E-03	0	0	0	0	0	0	4.50E-03
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-1.08E-03	0	-7.49E-03	0	0	0	0	0	0	0	0	-8.57E-03
BCEK	kg CO2	0	0	1.08E-03	0	0	0	7.49E-03	0	0	0	0	8.57E-03
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0

NRPRTotal	MJ, NCV	5.47E+00	7.04E-02	1.94E-01	1.18E-01	1.85E-01	0	5.47E-01	3.41E-04	0	2.17E-02	6.38E-03	6.61E+00
ADP	kg	0	3.50E+00	6.61E-02	1.45E-01	1.11E-01	1.74E-01	0	3.50E-01	3.17E-04	0	2.04E-02	4.37E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	3.62E-01	5.23E-04	7.00E-03	8.79E-04	1.37E-03	0	3.62E-02	1.99E-05	0	1.70E-04	3.71E-04	4.09E-01
Output flows and waste category indicators													
HWD	kg	4.52E-03	1.54E-05	2.21E-05	2.59E-05	4.04E-05	0	4.52E-04	1.52E-07	0	8.33E-07	2.83E-06	5.08E-03
NHWD	kg	4.05E-02	6.09E-05	5.50E-03	1.02E-04	1.60E-04	0	9.25E-03	6.93E-03	0	1.81E-05	1.29E-01	1.92E-01
HLRW	kg	3.11E-07	8.06E-10	3.25E-09	1.35E-09	2.12E-09	0	3.11E-08	1.59E-11	0	2.77E-10	2.98E-10	3.50E-07
ILLRW	kg	1.06E-06	1.58E-09	3.53E-07	2.65E-09	4.14E-09	0	1.06E-07	3.69E-11	0	6.34E-10	6.89E-10	1.53E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MR	kg	2.10E-04	0	0	0	3.05E-03	0	0	0	0	0	0	3.26E-03
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-3.77E-03	0	-5.60E-03	0	0	0	0	0	0	0	0	-9.37E-03
BCEK	kg CO2	0	0	3.77E-03	0	0	0	5.60E-03	0	0	0	0	9.37E-03
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CWNR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0

LCIA results, resource use, output and waste flows, and carbon emissions & removals per functional unit (1m2) of VOCOMP®-25 (York, PA)

Parameters	Unit	Stage 1 - Product Stage			Construction Stage			Maintenance Stage			Life Stage		Total
		1-1	1-2	1-3	2-1	2-2	2-3	3-1	3-2	3-3	4-1	4-2	
LCIA results													
GWP, IPCCTOTAL	kg CO2 eq	1.79E-01	1.02E-02	1.05E-02	3.83E-03	1.30E-02	0	2.39E-02	1.31E-04	0	1.58E-03	2.45E-03	2.44E-01
GWP, IPCCBIOGENIC	kg CO2 eq	-3.77E-03	0	-1.83E-03	0	0	0	5.60E-03	0	0	0	0	0
GWP, IPCCFOSSIL	kg CO2 eq	1.82E-01	1.02E-02	1.24E-02	3.83E-03	1.30E-02	0	1.83E-02	1.31E-04	0	1.58E-03	2.45E-03	2.44E-01
GWP, TRACI 2.1TOTAL	kg CO2 eq	1.74E-01	1.01E-02	1.08E-02	3.79E-03	1.29E-02	0	2.34E-02	1.16E-04	0	1.56E-03	2.16E-03	2.38E-01
GWP, TRACI 2.1BIOGENIC	kg CO2 eq	-3.77E-03	0	-1.83E-03	0	0	0	5.60E-03	0	0	0	0	0
GWP, TRACI 2.1FOSSIL	kg CO2 eq	1.77E-01	1.01E-02	1.26E-02	3.79E-03	1.29E-02	0	1.78E-02	1.16E-04	0	1.56E-03	2.16E-03	2.38E-01
Ozone depletion	kg CFC-11 eq	2.52E-09	1.45E-10	3.63E-10	5.44E-11	1.85E-10	0	2.52E-10	3.96E-13	0	2.58E-11	7.39E-12	3.55E-09
Acidification	kg SO2 eq	5.88E-04	2.50E-05	4.31E-05	9.36E-06	3.18E-05	0	5.89E-05	9.09E-08	0	7.62E-06	1.70E-06	7.66E-04
Eutrophication	kg N eq	7.15E-05	1.70E-06	3.71E-06	6.36E-07	2.16E-06	0	7.17E-06	2.39E-08	0	4.83E-07	4.47E-07	8.78E-05
Smog	kg O3 eq	7.64E-03	6.42E-04	4.40E-04	2.40E-04	8.16E-04	0	7.66E-04	1.98E-02	0	2.34E-04	4.69E-05	3.06E-02
Respiratory effects	kg PM2.5 eq	9.09E-05	3.44E-06	2.91E-06	1.29E-06	4.38E-06	0	9.10E-06	1.33E-08	0	9.53E-07	2.48E-07	1.13E-04
Additional environmental information													
Carcinogenics	CTUh	8.43E-10	6.47E-12	4.38E-11	2.42E-12	8.23E-12	0	8.50E-11	1.00E-12	0	3.34E-13	1.87E-11	1.01E-09
Non-carcinogenics	CTUh	9.92E-09	1.25E-09	5.87E-10	4.68E-10	1.59E-09	0	1.04E-09	7.07E-11	0	6.89E-11	1.32E-09	1.63E-08
Ecotoxicity	CTUe	7.60E-02	2.55E-02	2.11E-03	9.53E-03	3.24E-02	0	7.68E-03	1.08E-04	0	2.02E-04	2.02E-03	1.56E-01
Fossil fuel depletion	MJ surplus	4.43E-01	1.93E-02	1.25E-02	7.22E-03	2.45E-02	0	4.43E-02	4.38E-05	0	2.93E-03	8.18E-04	5.54E-01
Resource use indicators													
RPRE	MJ, NCV	9.18E-02	2.23E-04	5.41E-03	8.33E-05	2.83E-04	0	9.18E-03	3.00E-06	0	3.91E-05	5.60E-05	1.07E-01
RPRM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RPRtotal	MJ, NCV	9.18E-02	2.23E-04	5.41E-03	8.33E-05	2.83E-04	0	9.18E-03	3.00E-06	0	3.91E-05	5.60E-05	1.07E-01
NRPRE	MJ, NCV	3.92E+00	1.45E-01	2.12E-01	5.44E-02	1.85E-01	0	3.92E-01	3.41E-04	0	2.17E-02	6.38E-03	4.93E+00
NRPRM	MJ, NCV	1.55E+00	0	0	0	0	0	1.55E-01	0	0	0	0	1.70E+00
NRPRtotal	MJ, NCV	5.47E+00	1.45E-01	2.12E-01	5.44E-02	1.85E-01	0	5.47E-01	3.41E-04	0	2.17E-02	6.38E-03	6.64E+00
ADP	kg	0	3.50E+00	1.36E-01	1.56E-01	5.11E-02	1.74E-01	0	3.50E-01	3.17E-04	0	2.04E-02	4.39E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	3.62E-01	1.08E-03	7.64E-03	4.04E-04	1.37E-03	0	3.62E-02	1.99E-05	0	1.70E-04	3.71E-04	4.10E-01
Output flows and waste category indicators													
HWD	kg	4.52E-03	3.17E-05	2.21E-05	1.19E-05	4.04E-05	0	4.52E-04	1.52E-07	0	8.33E-07	2.83E-06	5.08E-03
NHWD	kg	4.05E-02	1.26E-04	5.50E-03	4.70E-05	1.60E-04	0	9.25E-03	6.93E-03	0	1.81E-05	1.29E-01	1.92E-01
HLRW	kg	3.11E-07	1.66E-09	3.25E-09	6.22E-10	2.12E-09	0	3.11E-08	1.59E-11	0	2.77E-10	2.98E-10	3.50E-07
ILLRW	kg	1.06E-06	3.26E-09	4.14E-07	1.22E-09	4.14E-09	0	1.06E-07	3.69E-11	0	6.34E-10	6.89E-10	1.59E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MR	kg	2.10E-04	0	0	0	3.05E-03	0	0	0	0	0	0	3.26E-03
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-3.77E-03	0	-5.60E-03	0	0	0	0	0	0	0	0	-9.37E-03
BCEK	kg CO2	0	0	3.77E-03	0	0	0	5.60E-03	0	0	0	0	9.37E-03
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CWNR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0

LCIA results, resource use, output and waste flows, and carbon emissions & removals per functional unit (1m2) of VOCOMP®-25 (Milton, Ontario, Canada)

Parameters	Unit	Stage 1 - Product Stage			Construction Stage			Maintenance Stage			Life Stage		Total
		1-1	1-2	1-3	2-1	2-2	2-3	3-1	3-2	3-3	4-1	4-2	
LCIA results													
GWP, IPCCTOTAL	kg CO2 eq	1.79E-01	2.07E-02	4.54E-03	8.84E-02	1.30E-02	0	2.39E-02	1.31E-04	0	1.58E-03	2.45E-03	3.33E-01
GWP, IPCCBIOGENIC	kg CO2 eq	-3.77E-03	0	-1.83E-03	0	0	0	5.60E-03	0	0	0	0	0
GWP, IPCCFOSSIL	kg CO2 eq	1.82E-01	2.07E-02	6.36E-03	8.84E-02	1.30E-02	0	1.83E-02	1.31E-04	0	1.58E-03	2.45E-03	3.33E-01
GWP, TRACI 2.1TOTAL	kg CO2 eq	1.74E-01	2.05E-02	4.88E-03	8.72E-02	1.29E-02	0	2.34E-02	1.16E-04	0	1.56E-03	2.16E-03	3.26E-01
GWP, TRACI 2.1BIOGENIC	kg CO2 eq	-3.77E-03	0	-1.83E-03	0	0	0	5.60E-03	0	0	0	0	0
GWP, TRACI 2.1FOSSIL	kg CO2 eq	1.77E-01	2.05E-02	6.70E-03	8.72E-02	1.29E-02	0	1.78E-02	1.16E-04	0	1.56E-03	2.16E-03	3.26E-01
Ozone depletion	kg CFC-11 eq	2.52E-09	2.95E-10	4.59E-11	1.54E-09	1.85E-10	0	2.52E-10	3.96E-13	0	2.58E-11	7.39E-12	4.87E-09
Acidification	kg SO2 eq	5.88E-04	5.07E-05	1.41E-05	1.87E-04	3.18E-05	0	5.89E-05	9.09E-08	0	7.62E-06	1.70E-06	9.40E-04
Eutrophication	kg N eq	7.15E-05	3.44E-06	1.25E-06	1.24E-05	2.16E-06	0	7.17E-06	2.39E-08	0	4.83E-07	4.47E-07	9.89E-05
Smog	kg O3 eq	7.64E-03	1.30E-03	2.06E-04	4.45E-03	8.16E-04	0	7.66E-04	1.98E-02	0	2.34E-04	4.69E-05	3.52E-02
Respiratory effects	kg PM2.5 eq	9.09E-05	6.98E-06	1.27E-06	2.22E-05	4.38E-06	0	9.10E-06	1.33E-08	0	9.53E-07	2.48E-07	1.36E-04
Additional environmental information													
Carcinogenics	CTUh	8.43E-10	1.31E-11	2.92E-11	4.96E-11	8.23E-12	0	8.50E-11	1.00E-12	0	3.34E-13	1.87E-11	1.05E-09
Non-carcinogenics	CTUh	9.92E-09	2.53E-09	3.66E-10	4.63E-09	1.59E-09	0	1.04E-09	7.07E-11	0	6.89E-11	1.32E-09	2.15E-08
Ecotoxicity	CTUe	7.60E-02	5.16E-02	1.57E-03	8.55E-02	3.24E-02	0	7.68E-03	1.08E-04	0	2.02E-04	2.02E-03	2.57E-01
Fossil fuel depletion	MJ surplus	4.43E-01	3.91E-02	7.16E-03	1.61E-01	2.45E-02	0	4.43E-02	4.38E-05	0	2.93E-03	8.18E-04	7.23E-01
Resource use indicators													
RPRE	MJ, NCV	9.18E-02	4.51E-04	2.67E-03	3.40E-03	2.83E-04	0	9.18E-03	3.00E-06	0	3.91E-05	5.60E-05	1.08E-01
RPRM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RPRtotal	MJ, NCV	9.18E-02	4.51E-04	2.67E-03	3.40E-03	2.83E-04	0	9.18E-03	3.00E-06	0	3.91E-05	5.60E-05	1.08E-01
NRPRE	MJ, NCV	3.92E+00	2.94E-01	9.61E-02	1.22E+00	1.85E-01	0	3.92E-01	3.41E-04	0	2.17E-02	6.38E-03	6.13E+00
NRPRM	MJ, NCV	1.55E+00	0	0	0	0	0	1.55E-01	0	0	0	0	1.70E+00
NRPRtotal	MJ, NCV	5.47E+00	2.94E-01	9.61E-02	1.22E+00	1.85E-01	0	5.47E-01	3.41E-04	0	2.17E-02	6.38E-03	7.83E+00
ADP	kg	0	3.50E+00	2.76E-01	8.78E-02	1.14E+00	1.74E-01	0	3.50E-01	3.17E-04	0	2.04E-02	5.55E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	3.62E-01	2.19E-03	3.72E-03	1.28E-02	1.37E-03	0	3.62E-02	1.99E-05	0	1.70E-04	3.71E-04	4.19E-01
Output flows and waste category indicators													
HWD	kg	4.52E-03	6.43E-05	2.21E-05	1.86E-04	4.04E-05	0	4.52E-04	1.52E-07	0	8.33E-07	2.83E-06	5.29E-03
NHWD	kg	4.05E-02	2.54E-04	5.50E-03	1.18E-03	1.60E-04	0	9.25E-03	6.93E-03	0	1.81E-05	1.29E-01	1.93E-01
HLRW	kg	3.11E-07	3.37E-09	3.25E-09	2.02E-08	2.12E-09	0	3.11E-08	1.59E-11	0	2.77E-10	2.98E-10	3.71E-07
ILLRW	kg	1.06E-06	6.60E-09	1.00E-08	5.58E-08	4.14E-09	0	1.06E-07	3.69E-11	0	6.34E-10	6.89E-10	1.25E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MR	kg	2.10E-04	0	0	0	3.05E-03	0	0	0	0	0	0	3.26E-03
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-3.77E-03	0	-5.60E-03	0	0	0	0	0	0	0	0	-9.37E-03
BCEK	kg CO2	0	0	3.77E-03	0	0	0	5.60E-03	0	0	0	0	9.37E-03
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CWNR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0

BCEK	kg CO2	0	0	4.45E-03	0	0	0	5.60E-03	0	0	0	0	1.00E-02
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CWNR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0

LCIA results, resource use, output and waste flows, and carbon emissions & removals per functional unit (1m2) of VOCOMP®-30 (Forth Worth, TX)

Parameters	Unit	Stage 1 - Product Stage			Stage 2 - Design & Construction Stage			Stage 3 - Use & Maintenance Stage			Stage 4 - End-of-Life Stage		Total
		1-1	1-2	1-3	2-1	2-2	2-3	3-1	3-2	3-3	4-1	4-2	
LCIA results													
GWP, IPCCTOTAL	kg CO2 eq	2.10E-01	2.08E-02	8.31E-02	1.55E-03	1.30E-02	0	2.81E-02	1.31E-04	0	1.59E-03	2.45E-03	3.61E-01
GWP, IPCCBIOGENIC	kg CO2 eq	-4.45E-03	0	-1.15E-03	0	0	0	5.60E-03	0	0	0	0	0
GWP, IPCCFOSSIL	kg CO2 eq	2.15E-01	2.08E-02	8.43E-02	1.55E-03	1.30E-02	0	2.25E-02	1.31E-04	0	1.59E-03	2.45E-03	3.61E-01
GWP, TRACI 2.1TOTAL	kg CO2 eq	2.05E-01	2.05E-02	8.11E-02	1.53E-03	1.29E-02	0	2.74E-02	1.16E-04	0	1.57E-03	2.16E-03	3.52E-01
GWP, TRACI 2.1BIOGENIC	kg CO2 eq	-4.45E-03	0	-1.15E-03	0	0	0	5.60E-03	0	0	0	0	0
GWP, TRACI 2.1FOSSIL	kg CO2 eq	2.09E-01	2.05E-02	8.23E-02	1.53E-03	1.29E-02	0	2.18E-02	1.16E-04	0	1.57E-03	2.16E-03	3.52E-01
Ozone depletion	kg CFC-11 eq	9.45E-07	2.95E-10	2.70E-09	2.20E-11	1.85E-10	0	9.45E-08	3.96E-13	0	2.59E-11	7.39E-12	1.04E-06
Acidification	kg SO2 eq	6.97E-04	5.07E-05	2.48E-04	3.78E-06	3.18E-05	0	7.04E-05	9.09E-08	0	7.65E-06	1.70E-06	1.11E-03
Eutrophication	kg N eq	8.91E-05	3.45E-06	2.34E-05	2.57E-07	2.16E-06	0	9.09E-06	2.39E-08	0	4.84E-07	4.47E-07	1.28E-04
Smog	kg O3 eq	9.06E-03	1.30E-03	3.28E-03	9.69E-05	8.16E-04	0	9.25E-04	5.75E-02	0	2.35E-04	4.69E-05	7.33E-02
Respiratory effects	kg PM2.5 eq	1.08E-04	6.98E-06	3.78E-05	5.20E-07	4.38E-06	0	1.09E-05	1.33E-08	0	9.56E-07	2.48E-07	1.70E-04
Additional environmental information													
Carcinogenics	CTUh	9.81E-10	1.31E-11	1.35E-10	9.78E-13	8.23E-12	0	1.06E-10	1.00E-12	0	3.35E-13	1.87E-11	1.26E-09
Non-carcinogenics	CTUh	1.14E-08	2.53E-09	2.54E-09	1.89E-10	1.59E-09	0	1.68E-09	7.07E-11	0	6.91E-11	1.32E-09	2.14E-08
Ecotoxicity	CTUe	8.98E-02	5.17E-02	2.25E-02	3.85E-03	3.24E-02	0	9.79E-03	1.08E-04	0	2.02E-04	2.02E-03	2.12E-01
Fossil fuel depletion	MJ surplus	5.18E-01	3.91E-02	2.79E-01	2.91E-03	2.45E-02	0	5.21E-02	4.38E-05	0	2.94E-03	8.18E-04	9.19E-01
Resource use indicators													
RPRE	MJ, NCV	1.07E-01	4.52E-04	4.06E-02	3.36E-05	2.83E-04	0	1.08E-02	3.00E-06	0	3.93E-05	5.60E-05	1.60E-01
RPRM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RPRtotal	MJ, NCV	1.07E-01	4.52E-04	4.06E-02	3.36E-05	2.83E-04	0	1.08E-02	3.00E-06	0	3.93E-05	5.60E-05	1.60E-01
NRPRE	MJ, NCV	4.60E+00	2.95E-01	2.37E+00	2.20E-02	1.85E-01	0	4.63E-01	3.41E-04	0	2.18E-02	6.38E-03	7.96E+00
NRPRM	MJ, NCV	1.82E+00	0	0	0	0	0	1.82E-01	0	0	0	0	2.00E+00
NRPRtotal	MJ, NCV	6.42E+00	2.95E-01	2.37E+00	2.20E-02	1.85E-01	0	6.45E-01	3.41E-04	0	2.18E-02	6.38E-03	9.96E+00
ADP	kg	0	4.11E+00	2.77E-01	2.15E+00	2.06E-02	1.74E-01	0	4.13E-01	3.17E-04	0	2.04E-02	7.16E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	4.34E-01	2.19E-03	1.77E-01	1.63E-04	1.37E-03	0	4.36E-02	1.99E-05	0	1.71E-04	3.71E-04	6.59E-01
Output flows and waste category indicators													
HWD	kg	2.35E-03	1.22E-06	7.67E-04	9.05E-08	7.62E-07	0	2.38E-04	4.52E-07	0	7.89E-07	8.45E-06	3.37E-03
NHWD	kg	2.60E-01	2.75E-02	2.82E-01	2.05E-03	1.72E-02	0	2.63E-02	4.12E-05	0	6.20E-03	7.70E-04	6.22E-01
HLRW	kg	3.76E-07	3.37E-09	1.99E-07	2.51E-10	2.12E-09	0	3.78E-08	1.59E-11	0	2.78E-10	2.98E-10	6.19E-07
ILLRW	kg	1.26E-06	6.60E-09	5.68E-07	4.92E-10	4.14E-09	0	1.26E-07	3.69E-11	0	6.36E-10	6.89E-10	1.96E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MR	kg	4.27E-04	0	0	0	3.05E-03	0	0	0	0	0	0	3.48E-03
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-4.45E-03	0	-5.60E-03	0	0	0	0	0	0	0	0	-1.00E-02
BCEK	kg CO2	0	0	4.45E-03	0	0	0	5.60E-03	0	0	0	0	1.00E-02
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CWNR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0

LCIA results, resource use, output and waste flows, and carbon emissions & removals per functional unit (1m2) of VOCOMP®-30 (Goodyear, AZ)

Parameters	Unit	Stage 1: Product Stage			Construction Stage			Maintenance Stage			Life Stage		Total
		1-1	1-2	1-3	2-1	2-2	2-3	3-1	3-2	3-3	4-1	4-2	
LCIA results													
GWP, IPCCTOTAL	kg CO2 eq	2.10E-01	2.30E-02	9.84E-02	9.31E-03	1.30E-02	0	2.81E-02	1.31E-04	0	1.59E-03	2.45E-03	3.86E-01
GWP, IPCCBIOGENIC	kg CO2 eq	-4.45E-03	0	-1.15E-03	0	0	0	5.60E-03	0	0	0	0	0
GWP, IPCCFOSSIL	kg CO2 eq	2.15E-01	2.30E-02	9.96E-02	9.31E-03	1.30E-02	0	2.25E-02	1.31E-04	0	1.59E-03	2.45E-03	3.86E-01
GWP, TRACI 2.1TOTAL	kg CO2 eq	2.05E-01	2.28E-02	9.61E-02	9.20E-03	1.29E-02	0	2.74E-02	1.16E-04	0	1.57E-03	2.16E-03	3.77E-01
GWP, TRACI 2.1BIOGENIC	kg CO2 eq	-4.45E-03	0	-1.15E-03	0	0	0	5.60E-03	0	0	0	0	0
GWP, TRACI 2.1FOSSIL	kg CO2 eq	2.09E-01	2.28E-02	9.73E-02	9.20E-03	1.29E-02	0	2.18E-02	1.16E-04	0	1.57E-03	2.16E-03	3.77E-01
Ozone depletion	kg CFC-11 eq	9.45E-07	3.27E-10	3.26E-09	1.32E-10	1.85E-10	0	9.45E-08	3.96E-13	0	2.59E-11	7.39E-12	1.04E-06
Acidification	kg SO2 eq	6.97E-04	5.63E-05	2.92E-04	2.27E-05	3.18E-05	0	7.04E-05	9.09E-08	0	7.65E-06	1.70E-06	1.18E-03
Eutrophication	kg N eq	8.91E-05	3.83E-06	2.71E-05	1.55E-06	2.16E-06	0	9.09E-06	2.39E-08	0	4.84E-07	4.47E-07	1.34E-04
Smog	kg O3 eq	9.06E-03	1.44E-03	3.69E-03	5.83E-04	8.16E-04	0	9.25E-04	5.75E-02	0	2.35E-04	4.69E-05	7.43E-02
Respiratory effects	kg PM2.5 eq	1.08E-04	7.75E-06	4.02E-05	3.13E-06	4.38E-06	0	1.09E-05	1.33E-08	0	9.56E-07	2.48E-07	1.76E-04
Additional environmental information													
Carcinogenics	CTUh	9.81E-10	1.46E-11	1.57E-10	5.88E-12	8.23E-12	0	1.06E-10	1.00E-12	0	3.35E-13	1.87E-11	1.29E-09
Non-carcinogenics	CTUh	1.14E-08	2.81E-09	2.87E-09	1.14E-09	1.59E-09	0	1.68E-09	7.07E-11	0	6.91E-11	1.32E-09	2.30E-08
Ecotoxicity	CTUe	8.98E-02	5.73E-02	2.33E-02	2.32E-02	3.24E-02	0	9.79E-03	1.08E-04	0	2.02E-04	2.02E-03	2.38E-01
Fossil fuel depletion	MJ surplus	5.18E-01	4.34E-02	3.01E-01	1.75E-02	2.45E-02	0	5.21E-02	4.38E-05	0	2.94E-03	8.18E-04	9.61E-01
Resource use indicators													
RPRE	MJ, NCV	1.07E-01	5.01E-04	5.61E-02	2.02E-04	2.83E-04	0	1.08E-02	3.00E-06	0	3.93E-05	5.60E-05	1.75E-01
RPRM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RPRtotal	MJ, NCV	1.07E-01	5.01E-04	5.61E-02	2.02E-04	2.83E-04	0	1.08E-02	3.00E-06	0	3.93E-05	5.60E-05	1.75E-01
NRPRE	MJ, NCV	4.60E+00	3.27E-01	2.67E+00	1.32E-01	1.85E-01	0	4.63E-01	3.41E-04	0	2.18E-02	6.38E-03	8.41E+00
NRPRM	MJ, NCV	1.82E+00	0	0	0	0	0	1.82E-01	0	0	0	0	2.00E+00
NRPRtotal	MJ, NCV	6.42E+00	3.27E-01	2.67E+00	1.32E-01	1.85E-01	0	6.45E-01	3.41E-04	0	2.18E-02	6.38E-03	1.04E+01
ADP	kg	0	4.11E+00	3.07E-01	2.34E+00	1.24E-01	1.74E-01	0	4.13E-01	3.17E-04	0	2.04E-02	7.49E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	4.34E-01	2.43E-03	2.21E-01	9.81E-04	1.37E-03	0	4.36E-02	1.99E-05	0	1.71E-04	3.71E-04	7.04E-01
Output flows and waste category indicators													
HWD	kg	2.35E-03	1.35E-06	7.67E-04	5.45E-07	7.62E-07	0	2.38E-04	4.52E-07	0	7.89E-07	8.45E-06	3.37E-03
NHWD	kg	2.60E-04	3.05E-05	7.59E-04	1.23E-05	1.72E-05	0	2.63E-05	4.12E-08	0	6.20E-06	7.70E-07	1.11E-03
HLRW	kg	3.76E-07	3.74E-09	1.99E-07	1.51E-09	2.12E-09	0	3.78E-08	1.59E-11	0	2.78E-10	2.98E-10	6.21E-07
ILLRW	kg	1.26E-06	7.33E-09	1.46E-06	2.96E-09	4.14E-09	0	1.26E-07	3.69E-11	0	6.36E-10	6.89E-10	2.86E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MR	kg	4.27E-04	0	0	0	3.05E-03	0	0	0	0	0	0	3.48E-03
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-4.45E-03	0	-5.60E-03	0	0	0	0	0	0	0	0	-1.00E-02
BCEK	kg CO2	0	0	4.45E-03	0	0	0	5.60E-03	0	0	0	0	1.00E-02
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CWNR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
LCIA results, resource use, output and waste flows, and carbon emissions & removals per functional unit (1m2) of VOCOMP*-30 (Hampshire, IL)													

	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	4.34E-01	6.00E-04	1.80E-01	6.89E-04	1.37E-03	0	4.36E-02	1.99E-05	0	1.71E-04	3.71E-04	6.61E-01
Output flows and waste category indicators													
HWD	kg	2.35E-03	3.33E-07	7.67E-04	3.83E-07	7.62E-07	0	2.38E-04	4.52E-07	0	7.89E-07	8.45E-06	3.37E-03
NHWD	kg	2.60E-01	7.53E-03	2.77E-01	8.64E-03	1.72E-02	0	2.63E-02	4.12E-05	0	6.20E-03	7.70E-04	6.03E-01
HLRW	kg	3.76E-07	9.25E-10	1.99E-07	1.06E-09	2.12E-09	0	3.78E-08	1.59E-11	0	2.78E-10	2.98E-10	6.17E-07
ILLRW	kg	1.26E-06	1.81E-09	8.34E-07	2.08E-09	4.14E-09	0	1.26E-07	3.69E-11	0	6.36E-10	6.89E-10	2.23E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MR	kg	4.27E-04	0	0	0	3.05E-03	0	0	0	0	0	0	3.48E-03
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-4.45E-03	0	-5.60E-03	0	0	0	0	0	0	0	0	-1.00E-02
BCEK	kg CO2	0	0	4.45E-03	0	0	0	5.60E-03	0	0	0	0	1.00E-02
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CWNR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0

LCIA results, resource use, output and waste flows, and carbon emissions & removals per functional unit (1m2) of VOCOMP®-30 (York, PA)

Parameters	Unit	Stage 1 - Product Stage			Stage 2 - Design & Construction Stage			Stage 3 - Use & Maintenance Stage			Stage 4 - End-of-Life Stage		Total
		1-1	1-2	1-3	2-1	2-2	2-3	3-1	3-2	3-3	4-1	4-2	
LCIA results													
GWP, IPCCTOTAL	kg CO2 eq	2.10E-01	1.15E-02	8.62E-02	2.62E-02	1.30E-02	0	2.81E-02	1.31E-04	0	1.59E-03	2.45E-03	3.79E-01
GWP, IPCCBIOGENIC	kg CO2 eq	-4.45E-03	0	-1.15E-03	0	0	0	5.60E-03	0	0	0	0	0
GWP, IPCCFOSSIL	kg CO2 eq	2.15E-01	1.15E-02	8.73E-02	2.62E-02	1.30E-02	0	2.25E-02	1.31E-04	0	1.59E-03	2.45E-03	3.79E-01
GWP, TRACI 2.1TOTAL	kg CO2 eq	2.05E-01	1.13E-02	8.42E-02	2.59E-02	1.29E-02	0	2.74E-02	1.16E-04	0	1.57E-03	2.16E-03	3.70E-01
GWP, TRACI 2.1BIOGENIC	kg CO2 eq	-4.45E-03	0	-1.15E-03	0	0	0	5.60E-03	0	0	0	0	0
GWP, TRACI 2.1FOSSIL	kg CO2 eq	2.09E-01	1.13E-02	8.53E-02	2.59E-02	1.29E-02	0	2.18E-02	1.16E-04	0	1.57E-03	2.16E-03	3.70E-01
Ozone depletion	kg CFC-11 eq	9.45E-07	1.63E-10	2.95E-09	3.72E-10	1.85E-10	0	9.45E-08	3.96E-13	0	2.59E-11	7.39E-12	1.04E-06
Acidification	kg SO2 eq	6.97E-04	2.80E-05	2.67E-04	6.39E-05	3.18E-05	0	7.04E-05	9.09E-08	0	7.65E-06	1.70E-06	1.17E-03
Eutrophication	kg N eq	8.91E-05	1.90E-06	2.51E-05	4.34E-06	2.16E-06	0	9.09E-06	2.39E-08	0	4.84E-07	4.47E-07	1.33E-04
Smog	kg O3 eq	9.06E-03	7.19E-04	3.43E-03	1.64E-03	8.16E-04	0	9.25E-04	5.75E-02	0	2.35E-04	4.69E-05	7.44E-02
Respiratory effects	kg PM2.5 eq	1.08E-04	3.86E-06	3.89E-05	8.80E-06	4.38E-06	0	1.09E-05	1.33E-08	0	9.56E-07	2.48E-07	1.76E-04
Additional environmental information													
Carcinogenics	CTUh	9.81E-10	7.25E-12	1.46E-10	1.65E-11	8.23E-12	0	1.06E-10	1.00E-12	0	3.35E-13	1.87E-11	1.28E-09
Non-carcinogenics	CTUh	1.14E-08	1.40E-09	2.69E-09	3.19E-09	1.59E-09	0	1.68E-09	7.07E-11	0	6.91E-11	1.32E-09	2.35E-08
Ecotoxicity	CTUe	8.98E-02	2.85E-02	2.29E-02	6.51E-02	3.24E-02	0	9.79E-03	1.08E-04	0	2.02E-04	2.02E-03	2.51E-01
Fossil fuel depletion	MJ surplus	5.18E-01	2.16E-02	2.80E-01	4.93E-02	2.45E-02	0	5.21E-02	4.38E-05	0	2.94E-03	8.18E-04	9.50E-01
Resource use indicators													
RPRE	MJ, NCV	1.07E-01	2.49E-04	3.85E-02	5.69E-04	2.83E-04	0	1.08E-02	3.00E-06	0	3.93E-05	5.60E-05	1.58E-01
RPRM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RPRtotal	MJ, NCV	1.07E-01	2.49E-04	3.85E-02	5.69E-04	2.83E-04	0	1.08E-02	3.00E-06	0	3.93E-05	5.60E-05	1.58E-01
NRPRE	MJ, NCV	4.60E+00	1.63E-01	2.43E+00	3.71E-01	1.85E-01	0	4.63E-01	3.41E-04	0	2.18E-02	6.38E-03	8.25E+00
NRPRM	MJ, NCV	1.82E+00	0	0	0	0	0	1.82E-01	0	0	0	0	2.00E+00
NRPRtotal	MJ, NCV	6.42E+00	1.63E-01	2.43E+00	3.71E-01	1.85E-01	0	6.45E-01	3.41E-04	0	2.18E-02	6.38E-03	1.02E+01
ADP	kg	0	4.11E+00	3.07E-01	2.11E+00	6.96E-01	1.74E-01	0	4.13E-01	3.17E-04	0	2.04E-02	7.83E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	4.34E-01	1.21E-03	1.81E-01	2.76E-03	1.37E-03	0	4.36E-02	1.99E-05	0	1.71E-04	3.71E-04	6.64E-01
Output flows and waste category indicators													
HWD	kg	2.35E-03	6.71E-07	7.67E-04	1.53E-06	7.62E-07	0	2.38E-04	4.52E-07	0	7.89E-07	8.45E-06	3.37E-03
NHWD	kg	2.60E-01	1.52E-02	2.90E-01	3.46E-02	1.72E-02	0	2.63E-02	4.12E-05	0	6.20E-03	7.70E-04	6.50E-01
HLRW	kg	3.11E-07	4.63E-09	3.25E-09	1.68E-09	2.12E-09	0	3.11E-08	1.59E-11	0	2.77E-10	2.98E-10	3.54E-07
ILLRW	kg	1.06E-06	9.08E-09	2.87E-06	3.29E-09	4.14E-09	0	1.06E-07	3.69E-11	0	6.34E-10	6.89E-10	4.05E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MR	kg	4.27E-04	0	0	0	3.05E-03	0	0	0	0	0	0	3.48E-03
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-4.45E-03	0	-5.60E-03	0	0	0	0	0	0	0	0	-1.00E-02
BCEK	kg CO2	0	0	4.45E-03	0	0	0	5.60E-03	0	0	0	0	1.00E-02
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0

LCIA results, resource use, output and waste flows, and carbon emissions & removals per functional unit (1m2) of VOCOMP®-30 (Milton, Ontario, Canada)

Parameters	Unit	Stage 1 - Product Stage			Stage 2 - Design & Construction Stage			Stage 3 - Use & Maintenance Stage			Stage 4 - End-of-Life Stage		Total
		1-1	1-2	1-3	2-1	2-2	2-3	3-1	3-2	3-3	4-1	4-2	
LCIA results													
GWP, IPCCTOTAL	kg CO2 eq	2.10E-01	2.30E-02	8.03E-02	5.44E-02	1.30E-02	0	2.81E-02	1.31E-04	0	1.59E-03	2.45E-03	4.13E-01
GWP, IPCCBIOGENIC	kg CO2 eq	-4.45E-03	0	-1.15E-03	0	0	0	5.60E-03	0	0	0	0	0
GWP, IPCCFOSSIL	kg CO2 eq	2.15E-01	2.30E-02	8.15E-02	5.44E-02	1.30E-02	0	2.25E-02	1.31E-04	0	1.59E-03	2.45E-03	4.13E-01
GWP, TRACI 2.1TOTAL	kg CO2 eq	2.05E-01	2.28E-02	7.84E-02	5.37E-02	1.29E-02	0	2.74E-02	1.16E-04	0	1.57E-03	2.16E-03	4.04E-01
GWP, TRACI 2.1BIOGENIC	kg CO2 eq	-4.45E-03	0	-1.15E-03	0	0	0	5.60E-03	0	0	0	0	0
GWP, TRACI 2.1FOSSIL	kg CO2 eq	2.09E-01	2.28E-02	7.95E-02	5.37E-02	1.29E-02	0	2.18E-02	1.16E-04	0	1.57E-03	2.16E-03	4.04E-01
Ozone depletion	kg CFC-11 eq	9.45E-07	3.27E-10	2.64E-09	9.83E-10	1.85E-10	0	9.45E-08	3.96E-13	0	2.59E-11	7.39E-12	1.04E-06
Acidification	kg SO2 eq	6.97E-04	5.63E-05	2.39E-04	1.12E-04	3.18E-05	0	7.04E-05	9.09E-08	0	7.65E-06	1.70E-06	1.22E-03
Eutrophication	kg N eq	8.91E-05	3.83E-06	2.27E-05	7.37E-06	2.16E-06	0	9.09E-06	2.39E-08	0	4.84E-07	4.47E-07	1.35E-04
Smog	kg O3 eq	9.06E-03	1.44E-03	3.20E-03	2.62E-03	8.16E-04	0	9.25E-04	5.75E-02	0	2.35E-04	4.69E-05	7.58E-02
Respiratory effects	kg PM2.5 eq	1.08E-04	7.75E-06	3.73E-05	1.28E-05	4.38E-06	0	1.09E-05	1.33E-08	0	9.56E-07	2.48E-07	1.83E-04
Additional environmental information													
Carcinogenics	CTUh	9.81E-10	1.46E-11	1.31E-10	2.98E-11	8.23E-12	0	1.06E-10	1.00E-12	0	3.35E-13	1.87E-11	1.29E-09
Non-carcinogenics	CTUh	1.14E-08	2.81E-09	2.47E-09	2.18E-09	1.59E-09	0	1.68E-09	7.07E-11	0	6.91E-11	1.32E-09	2.36E-08
Ecotoxicity	CTUe	8.98E-02	5.73E-02	2.23E-02	3.80E-02	3.24E-02	0	9.79E-03	1.08E-04	0	2.02E-04	2.02E-03	2.52E-01
Fossil fuel depletion	MJ surplus	5.18E-01	4.34E-02	2.75E-01	9.88E-02	2.45E-02	0	5.21E-02	4.38E-05	0	2.94E-03	8.18E-04	1.02E+00
Resource use indicators													
RPRE	MJ, NCV	1.07E-01	5.01E-04	3.58E-02	2.26E-03	2.83E-04	0	1.08E-02	3.00E-06	0	3.93E-05	5.60E-05	1.57E-01
RPRM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RPRtotal	MJ, NCV	1.07E-01	5.01E-04	3.58E-02	2.26E-03	2.83E-04	0	1.08E-02	3.00E-06	0	3.93E-05	5.60E-05	1.57E-01
NRPRE	MJ, NCV	4.60E+00	3.27E-01	2.32E+00	7.44E-01	1.85E-01	0	4.63E-01	3.41E-04	0	2.18E-02	6.38E-03	8.67E+00
NRPRM	MJ, NCV	1.82E+00	0	0	0	0	0	1.82E-01	0	0	0	0	2.00E+00
NRPRtotal	MJ, NCV	6.42E+00	3.27E-01	2.32E+00	7.44E-01	1.85E-01	0	6.45E-01	3.41E-04	0	2.18E-02	6.38E-03	1.07E+01
ADP	kg	0	4.11E+00	1.18E+00	2.48E+00	4.98E-02	1.74E-01	0	4.13E-01	3.17E-04	0	2.04E-02	8.43E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	4.34E-01	2.43E-03	1.78E-01	8.24E-03	1.37E-03	0	4.36E-02	1.99E-05	0	1.71E-04	3.71E-04	6.68E-01
Output flows and waste category indicators													
HWD	kg	2.35E-03	1.35E-06	7.67E-04	2.40E-05	7.62E-07	0	2.38E-04	4.52E-07	0	7.89E-07	8.45E-06	3.39E-03
NHWD	kg	2.60E-01	3.05E-02	1.99E-01	8.65E-02	1.72E-02	0	2.63E-02	4.12E-05	0	6.20E-03	7.70E-04	6.27E-01
HLRW	kg	7.84E-09	6.15E-11	4.17E-09	3.14E-10	3.48E-11	0	7.86E-10	3.10E-13	0	5.34E-12	5.79E-12	1.32E-08
ILLRW	kg	1.63E-06	1.10E-08	7.03E-07	5.02E-08	6.22E-09	0	1.63E-07	5.25E-11	0	9.08E-10	9.81E-10	2.56E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MR	kg	4.27E-04	0	0	0	3.05E-03	0	0	0	0	0	0	3.48E-03
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-4.45E-03	0	-5.60E-03	0	0	0	0	0	0	0	0	-1.00E-02
BCEK	kg CO2	0	0	4.45E-03	0	0	0	5.60E-03	0	0	0	0	1.00E-02
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0

Smog	kg O3 eq	9.06E-03	5.57E-03	4.20E-03	2.34E-04	8.16E-04	0	9.25E-04	5.75E-02	0	2.35E-04	4.69E-05	7.86E-02
Respiratory effects	kg PM2.5 eq	1.08E-04	2.99E-05	4.36E-05	1.26E-06	4.38E-06	0	1.09E-05	1.33E-08	0	9.56E-07	2.48E-07	2.00E-04
Additional environmental information													
Carcinogenics	CTUh	9.81E-10	5.62E-11	1.85E-10	2.36E-12	8.23E-12	0	1.06E-10	1.00E-12	0	3.35E-13	1.87E-11	1.36E-09
Non-carcinogenics	CTUh	1.14E-08	1.09E-08	3.39E-09	4.57E-10	1.59E-09	0	1.68E-09	7.07E-11	0	6.91E-11	1.32E-09	3.09E-08
Ecotoxicity	CTUe	8.98E-02	2.21E-01	2.41E-02	9.30E-03	3.24E-02	0	9.79E-03	1.08E-04	0	2.02E-04	2.02E-03	3.89E-01
Fossil fuel depletion	MJ surplus	5.18E-01	1.67E-01	3.10E-01	7.05E-03	2.45E-02	0	5.21E-02	4.38E-05	0	2.94E-03	8.18E-04	1.08E+00
Resource use indicators													
RPRE	MJ, NCV	1.07E-01	1.93E-03	5.27E-02	8.13E-05	2.83E-04	0	1.08E-02	3.00E-06	0	3.93E-05	5.60E-05	1.73E-01
RPRM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RPRtotal	MJ, NCV	1.07E-01	1.93E-03	5.27E-02	8.13E-05	2.83E-04	0	1.08E-02	3.00E-06	0	3.93E-05	5.60E-05	1.73E-01
NRPRE	MJ, NCV	4.60E+00	1.26E+00	2.72E+00	5.31E-02	1.85E-01	0	4.63E-01	3.41E-04	0	2.18E-02	6.38E-03	9.31E+00
NRPRM	MJ, NCV	1.82E+00	0	0	0	0	0	1.82E-01	0	0	0	0	2.00E+00
NRPRtotal	MJ, NCV	6.42E+00	1.26E+00	2.72E+00	5.31E-02	1.85E-01	0	6.45E-01	3.41E-04	0	2.18E-02	6.38E-03	1.13E+01
ADP	kg	0	4.11E+00	1.53E-01	2.18E+00	3.49E-01	1.74E-01	0	4.13E-01	3.17E-04	0	2.04E-02	7.40E+00
SM	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ, NCV	0	0	0	0	0	0	0	0	0	0	0	0
RE	m3	0	0	0	0	0	0	0	0	0	0	0	0
FW	MJ, LHV	4.34E-01	9.37E-03	2.16E-01	3.94E-04	1.37E-03	0	4.36E-02	1.99E-05	0	1.71E-04	3.71E-04	7.05E-01
Output flows and waste category indicators													
HWD	kg	2.35E-03	5.20E-06	7.67E-04	2.19E-07	7.62E-07	0	2.38E-04	4.52E-07	0	7.89E-07	8.45E-06	3.37E-03
NHWD	kg	2.60E-04	1.18E-04	9.10E-04	4.95E-06	1.72E-05	0	2.63E-05	4.12E-08	0	6.20E-06	7.70E-07	1.34E-03
HLRW	kg	3.76E-07	1.86E-09	1.99E-07	4.25E-09	2.12E-09	0	3.78E-08	1.59E-11	0	2.78E-10	2.98E-10	6.21E-07
ILLRW	kg	1.26E-06	3.65E-09	8.93E-07	8.32E-09	4.14E-09	0	1.26E-07	3.69E-11	0	6.36E-10	6.89E-10	2.29E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MR	kg	4.27E-04	0	0	0	3.05E-03	0	0	0	0	0	0	3.48E-03
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals													
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-4.45E-03	0	-5.60E-03	0	0	0	0	0	0	0	0	-1.00E-02
BCEK	kg CO2	0	0	4.45E-03	0	0	0	5.60E-03	0	0	0	0	1.00E-02
CBCEW	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCE	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CCR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0
CWNR	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0



SM Transparency Report (EPD)™

EPD

LCA

3rd-party reviewed

✓

Transparency Report (EPD)

3rd-party verified

✓

Validity: 05/28/25 – 05/28/30
SM-WRM – 05282025 – 009

This environmental product declaration (EPD) was externally verified by Lindita Bushi, PhD, Senior Research Associate at Athena, according to ISO 21930:2017; NSF PCR for Architectural Coatings; and ISO 14025:2006.

Athena Sustainable Materials Institute
600 Grings Hill Road
Sinking Spring, PA 19608
<https://www.athenasmi.org/>
(610) 985-0933



Athena Sustainable Materials Institute

SUMMARY

Reference PCR
NSF PCR for Architectural Coatings

Regions; system boundaries
North America; Cradle-to-grave

Functional unit: 1 m²

LCIA methodology: TRACI 2.1

LCA software; LCI database
SimaPro Developer 9.6; ecoinvent v3.10, US-EI 2.2

Public LCA:
LCA of W. R. MEADOWS VOCOMP and MEL-PRIME

In accordance with ISO 14044 and the reference PCR, this life cycle assessment was conducted by Sustainable Minds and reviewed by Lindita Bushi, PhD, Senior Research Associate at Athena.

W.R. MEADOWS, Inc.
300 Industrial Drive
P.O. Box 338
Hampshire, IL 60140-0338
wrmeadows.com
(800) 342-5976

Contact us

How we make it greener

VOCOMP®

Expand all

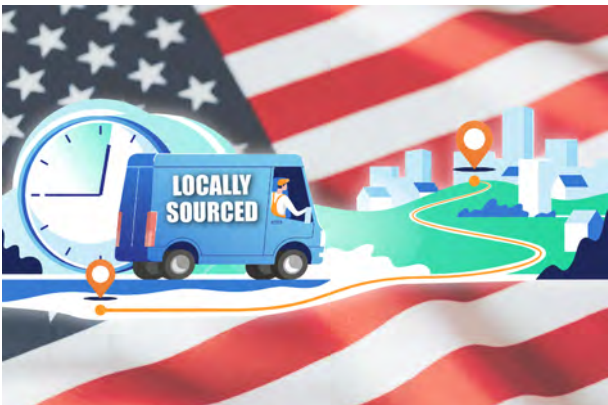
RAW MATERIALS ACQUISITION

W. R. MEADOWS manufactures VOCOMP-20, VOCOMP-25, and VOCOMP-30 in the USA and Canada.

W. R. Meadows recognizes how regional manufacturing reshapes the way raw materials are acquired, fostering efficiency and sustainability.

- Sourcing materials locally is more sustainable and results in a smaller carbon footprint for several reasons.
- It reduces transportation emissions by avoiding long-distance and overseas shipping, cutting fuel use and greenhouse gas output.
- Supporting domestic industries strengthens local economies and promotes sustainable practices, reducing reliance on global supply chains.
- Local sourcing ensures efficient logistics, as materials are transported over shorter distances, saving energy in storage and transit.

Finally, it eliminates dependence on energy-intensive transport modes like cargo ships and planes, which consume large amounts of fossil fuels. Domestic sourcing supports the environment and creates more resilient, eco-friendly supply chains.



TRANSPORATION

Reducing Transportation Costs and Impact through Regional Manufacturing:

- Regional manufacturing, where goods are produced closer to their markets, significantly minimizes transportation needs.
- Shortening the distance traveled for raw materials and finished goods reduces reliance on energy-intensive methods like long-haul trucking, cargo ships, and planes.
- Fewer miles traveled directly translate to cost savings and lower greenhouse gas emissions.



MANUFACTURING

W. R. MEADOWS utilizes Continuous Improvement in its daily standard work for all manufacturing activities.

Front-line supervisors are the champions of OEE (Overall Equipment Effectiveness), which plays a crucial role in reducing energy consumption in manufacturing. It highlights any inefficiencies and directs our efforts to minimize unnecessary energy use. By closely monitoring equipment performance, OEE identifies periods of downtime, slow speeds, and quality defects, which can all lead to wasted energy. Moreover, OEE-driven improvements have led Meadows to more streamlined processes, better scheduling, and reduced machine wear, all of which contribute to lower energy costs and a more sustainable operation. This proactive approach not only decreases energy consumption but also helps manufacturers meet environmental goals and reduce their carbon footprint.

Further, OEE has helped Meadows to identify and reduce scrap by providing insights into equipment performance, highlighting areas where defects or inefficiencies occur during production. With improved equipment efficiency and fewer production delays, OEE ensures that processes run optimally, resulting in fewer errors and reduced waste. Ultimately, this leads to a higher-quality product with less material being wasted during the manufacturing process.

Manufacturing waste, clarified water, and wastewater solids are recycled back into the product when feasible.

The Benefits of Regional Manufacturing: Enhancing Efficiency and Sustainability

Regional manufacturing focuses on producing goods closer to the markets it serves, simplifying supply chains, and fostering local resource utilization.

Tapping into local labor and materials reduces dependence on extended logistics networks and reduces carbon emissions.



USE & END OF LIFE

We understand the importance of end-of-life disposal. However, these products are meant to remain permanently adhered to their substrates, making them challenging to remove. As a result, they are typically landfilled during deconstruction or demolition.



SM Transparency Report (EPD)™

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

Validity: 05/28/25 – 05/28/30
SM-WRM – 05282025 – 009

This environmental product declaration (EPD) was externally verified by Lindita Bushi, PhD, Senior Research Associate at Athena, according to ISO 21930:2017; NSF PCR for Architectural Coatings; and ISO 14025:2006.

Athena Sustainable Materials Institute
600 Grings Hill Road
Sinking Spring, PA 19608
<https://www.athenasmi.org/>
(610) 985-0933



Athena Sustainable Materials Institute

SUMMARY

Reference PCR
NSF PCR for Architectural Coatings

Regions; system boundaries
North America; Cradle-to-grave

Functional unit: 1 m²

LCIA methodology: TRACI 2.1

LCA software; LCI database
SimaPro Developer 9.6; ecoinvent v3.10, US-EI 2.2

Public LCA:

LCA of W. R. MEADOWS VOCOMP and MEL-PRIME

In accordance with ISO 14044 and the reference PCR, this life cycle assessment was conducted by Sustainable Minds and reviewed by Lindita Bushi, PhD, Senior Research Associate at Athena.

W.R. MEADOWS, Inc.
300 Industrial Drive
P.O. Box 338
Hampshire, IL 60140-0338
wrmeadows.com
(800) 342-5976

Contact us