SM Transparency Catalog ▶ Overhead Door ▶ Rolling Service Doors





Rolling Steel Service Doors

Stormtite[™] Insulated Heavy-Duty Rolling Doors Model 625, FireKing® Models 630 & 631

Rolling Service Doors offer robust security and customizable access solutions for various commercial applications. These doors are designed to withstand heavy use while providing secure access control.





Performance dashboard

Features & functionality

Model 625: An insulated, heavy-duty rolling service door that is an ideal choice for applications requiring a moderate level of thermal protection.

Model 630: These fire-rated rolling steel doors offer superior protection wherever a listed fire door is required. Common applications include factories, warehouses, mills, distribution centers and parking garages.

Model 631: A smaller fire door with UL/ULC ratings. Offers superior protection wherever a small UL listed fire door is required.

Visit Overhead Door for more product information:

Model 625 Fire-Rated Model 630 Fire-Rated Model 631

MasterFormat® 08 33 23 **Product specifications:**

Rolling Steel Door 625 Specs Fire-Rated Doors 630 Specs Fire-Rated Doors 631 Specs

For spec help, call 800-929-3667

Environment & materials

Improved by:

High-wind load options (Models 625, 630, 631)

Fire Sentinel® time-delay release device (Models 630,

FireLite® vision lites, smoke detectors, horns and strobes (Models 630, 631)

Certification & rating systems:

Air infiltration package that meets requirements of IECC® code (Model 625)

See LCA, interpretation & rating systems



SM Transparency Report (EPD)™

EPD

LCA

3rd-party reviewed

Ø

Transparency Report (EPD)

3rd-party verified

Validity: 04/28/2025 – 04/28/2030 SM-OHD - 20250428 - 002

This environmental product declaration (EPD) was externally verified by Lindita Bushi, PhD, Senior Research Associate at Athena, according to ISO 21930:2017; UL Part A; UL Part B for Commercial Steel Doors and Steel Frames; and ISO 14025:2006.

Athena Sustainable Materials Institute

600 Grings Hill Road Sinking Spring, PA 19608 (610) 985-0933



Athena Institute

SUMMARY

Reference PCR

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

Declared unit

One 3-feet x 7-feet commercial steel

LCIA methodology: TRACI 2.1

LCA software; LCI databases openLCA 2.3; ecoinvent v3.10

Public LCA

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.

Overhead Door

2501 S. State Hwv 121 Business Suite 200 Lewisville, Texas 75067 1 (800) 929-3667

Contact us

Rolling Service Doors

LCA results & interpretation

Sustainable Minds

ansparency Report (EPD)

Model 625

OVERHEAD DOOR

Scope and summary

Application

The Rolling Steel Service Door Model 625 is a slatted door that rolls up to store in a coil above the opening, mounted to the face of the wall and supported by the vertical wall, requiring no connection to the ceiling or roof structure. Rolling doors are used to provide security against entry or weather protection at exterior and interior openings in industrial, commercial, institutional, and other buildings.

♥ Cradle to gate ○ Cradle to gate with options ○ Cradle to grave

Declared unit

One 3-feet x 7-feet commercial steel door considered in isolation, without an external frame, weighing 105.3 kg (1,058.4 kg/m³). The 0.051 m thick door includes the door sections, tracking guides, insulation and inserts, spring, hardware, seals, and powder coating.

PART

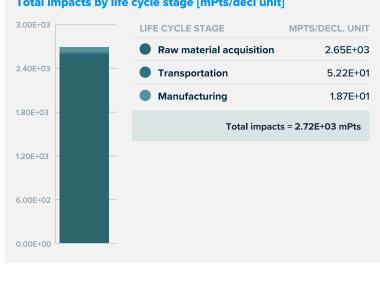
Manufacturing data Reporting period: January 2023 - December 2023

Location: Lewistown, PA

Material composition by wt%



MATERIAL



All life cycle stages

What's causing the greatest impacts

The raw material supply phase dominates the results, accounting for over

90% of the total impacts across nine out of ten TRACI 2.1 categories, with the exception of fossil fuel depletion. The transportation phase (A2) accounts for the next highest contributions, particularly in impact categories such as global warming potential, acidification, eutrophication, smog formation, and fossil fuel depletion. The exception is ozone depletion, where the manufacturing phase (A3) is the second-largest contributor.

Raw material supply

Steel-based parts account for "80% of the total mass of the products and

contribute the most to impacts in the raw material supply phase (A1). While the steel-based parts have 85% recycled content, they account for ~80% of global warming potential impacts in this phase. The next largest contributors are the foam used in the panes for insulation and the synthetic rubber used for sealing the panel. Transportation

contributor to life cycle impacts. Raw materials are transported by semi-truck to the Overhead Door™ facility, accounting for a relatively high contribution to impact categories such as global warming potential, acidification, eutrophication, smog formation, and fossil fuel depletion. Manufacturing

The manufacturing phase (A3) is the least impactful contributor to the total

The transportation (A2) of raw materials is the second largest impactful

results. The potential impacts associated with on-site electricity, LPG, diesel, propane, water usage, wastewater treatment, and final product packaging are

%WT

relatively low compared to those generated during the transportation phase. **Embodied carbon** Embodied carbon can be defined as the cradle-to-gate (A1-A3) global warming potential impacts. The total embodied carbon per declared unit of

Rolling Steel Service Door Model 625 is 2.06E+03 kg CO₂-eq per declared

Sensitivity analyses were performed to check the robustness of the results

Sensitivity analysis

unit.

where the highest potential environmental impacts are occurring. As the bulk of impacts are attributed to raw materials acquisition, and steel-based parts are the major contributors to those impacts, they were selected for sensitivity analysis. Global warming potential was evaluated for sensitivity since Overhead Door™

is interested in the potential CO₂-equivalent emissions of its products. Steel-

based parts were selected for sensitivity analysis due to their relatively higher contribution to the overall results. While the steel-based parts have 85% recycled content, decreasing the mass of steel by 20% could result in a potential decrease of total impacts by over 10%. How we're making it greener Steel plays a large role in the environmental impact of overhead doors.

Overhead Door works with steel suppliers who leverage an approximately 85% recycled content, minimizing the amount of primary material needed

to manufacture their products.

GWP, IPCC_{Total}

Smog

Respiratory effects

Non-carcinogenics

Ecotoxicity

LCA results

Information modules:

Included (X) | Excluded (MND)*

SM Single Score Learn about SM Single Score results

*Modules A4, A5, B, C, and D are excluded.

A1 RAW MATERIAL SUPPLY

Impacts per declared unit 2.65E+03 mPts

Energy and materials consumed

1.95E+03

1.11E+02

97.60%

97.29%

96.46%

2.64E+00



A2 TRANSPORT

5.22E+01 mPts

8.22E+01

7.91E+00

4.30E-02

1.77%

1.98%

2.80%

Truck transportation to

manufacturing facility.



Natural gas consumption for heat

generation in manufacturing

1.87E+01 mPts

processes.

2.77E+01

5.51E+00

3.09E-02

0.63%

0.74%

0.74%

A3 MANUFACTURING (X) A3 Manufacturin

Materials or processes contributing >20% to during steel-based part total impacts in each life cycle stage manufacturing.

LCIA impact results per declared unit			
LIFE CYCLE STAGE	A1 RAW MATERIAL SUPPLY	A2 TRANSPORT	A3 MANUFACTURING

Ecological damage Unit Impact category

kg CO₂ eq

kg O₃ eq

CTU_h

CTU

kg PM_{2.5} eq

GWP, IPCC _{Biogenic}	kg CO ₂ eq	0	0.00E+00	0.00E+00	-1.67E+01
GWP, IPCC _{Fossil}	kg CO ₂ eq	0	1.95E+03	8.22E+01	4.45E+01
GWP, TRACI _{Total}	kg CO ₂ eq	0	0.00E+00	0.00E+00	4.37E+01
GWP, TRACI _{Biogenic}	kg CO ₂ eq	0	0.00E+00	0.00E+00	-1.67E+01
GWP, TRACI _{Fossil}	kg CO ₂ eq	0	1.97E+03	8.15E+01	6.04E+01
Ozone depletion	kg CFC-11 eq	0	2.19E-05	1.33E-06	4.78E-06
Acidification	kg SO ₂ eq	0	1.27E+01	3.10E-01	2.55E-01
Eutrophication	kg N eq	0	3.13E+00	9.08E-02	8.76E-02
Human health damage					
Impact category	Unit				

Impact category Unit Carcinogenics CTU_h

Additional environmental information

Fossil fuel depletion	MJ surplus	0	1.84E+03		1.62E+02	1.14E+02
References						
References				R	ating systems	
LCA Background Report				т.		Control of the control of the Control

openLCA 2.3 software, and ecoinvent v3.10. ISO 14025:2006 Environmental labels and declarations — Type III

environmental declarations — Principles and procedures.

Requirements v4.0

upon request)

ISO 21930:2017, Sustainability in buildings and civil engineering works -Core rules for environmental product declarations of construction products and services - serves as the core PCR. **UL Part A: Life Cycle Assessment Calculation Rules and Report**

LCA of Overhead Door™ sectional and rolling doors (public version), Overhead

Door™ 2025. Developed using the TRACI v2.1, IPCC 2013 AR5, CML, and

Cumulative Energy Demand (LHV) impact assessment methodologies,

Sustainable Materials Institute), lindita.bushi@athenasmi.org; Hugues Imbeault-Tétreault (Group AGECO); and Jack Geibig (Ecoform). **UL Part B: Commercial Steel Doors and Steel Frames EPD Requirements**

Download PDF SM Transparency Report/ EPD

March, 2022. PCR review conducted by Lindita Bushi, PhD, Chair (Athena

Sustainable Materials Institute), lindita.bushi@athenasmi.org; Tim Weller (Allegion), Tim.weller@allegion.com; and Dan Glover (ASSA ABLOY Door Group), dan.glover@assaabloy.com. UL Environment General Program Instructions v2.5, March 2020 (available

September, 2020. PCR review conducted by Lindita Bushi, PhD, Chair (Athena

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 $% \left(1\right) =\left(1\right) \left(1\right$ $manufacturers, may \ not \ sufficiently \ align \ to \ support \ direct \ comparisons. \ They \ therefore \ cannot \ be$ 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 i $certain\ assumptions,\ data\ quality,\ and\ variability\ between\ LCA\ data\ sets\ may\ still\ exist.\ Any\ EPD$ comparison must be carried out at the building level per ISO 21930 guidelines, use the same sub- ${\it category\ PCR\ where\ applicable,\ include\ all\ relevant\ information\ modules,\ be\ limited\ to\ EPDs}$ applying a functional unit, and be based on equivalent scenarios with respect to the context of construction works. Some LCA impact categories and inventory items are still under development

and can have high levels of uncertainty. To promote uniform guidance on the data collection,

calculation, and reporting of results, the ACLCA methodology (ACLCA 2019) was used.

Environmental product declarations

performance.

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

The intent is to reward project teams for selecting products from

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

Building product disclosure and optimization

manufacturers who have verified improved life-cycle environmental

LEED BD+C: New Construction | v4.1 - LEED v4.1 Building product disclosure and optimization

Product-specific Type III EPD

Environmental product declarations

○ Industry-wide (generic) EPD

Collaborative for High Performance School Criteria MW C5.1 – Environmental Product Declarations	ols National
▼ Third-party certified type III EPD	2 points

Green Globes for New Construction and Sustainable

1 product

1.5 products

.5 points

.75 points

1 point

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

Environmental Product Declarations (EPD)

☐ Industry-average EPD

Mat 02 - Environmental impacts from construction products

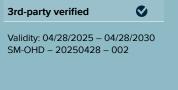
Multi-product specific EPD Product-specific EPD

Lewisville, Texas 75067 1 (800) 929-3667 Regions; system boundaries North America; Cradle-to-gate Contact us

Transparency Report (EPD)

SM Transparency Report (EPD)™

LCA



EPD

3rd-party reviewed

Senior Research Associate at Athena, according to ISO 21930:2017; UL Part A; UL Part B for **Commercial Steel Doors and Steel** Frames; and ISO 14025:2006. Athena Sustainable Materials Institute

This environmental product

declaration (EPD) was externally

verified by Lindita Bushi, PhD,

Sinking Spring, PA 19608 (610) 985-0933

Institute

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SUMMARY

Reference PCR

openLCA 2.3; ecoinvent v3.10 Public LCA

JL Part B: Commercial Steel Doors

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.

Declared unit One 3-feet x 7-feet commercial steel door LCIA methodology: TRACI 2.1 LCA software; LCI databases 600 Grings Hill Road

Overhead Door

2501 S. State Hwy 121

Business Suite 200

OVERHEAD DOOR

Sustainable Minds

Rolling Service Doors

LCA results & interpretation

Fire-Rated Model 630

Scope and summary

♦ Cradle to gate ○ Cradle to gate with options ○ Cradle to grave

Application

The Fire-Rated Rolling Service Door Model 630 is a slatted door that rolls up to store in a coil above the opening, mounted to the face of the wall and supported by the vertical wall, requiring no connection to the ceiling or roof structure. These doors feature fusible links mounted on both sides of the wall that separate to automatically close the door. Rolling doors are used to provide security against entry or weather protection at exterior and interior openings in industrial, commercial, institutional, and other buildings.

Declared unit One 3-feet x 7-feet commercial steel door considered in isolation, without an external frame, weighing 116.5 kg (1,171.2 kg/m³). The 0.051 m thick door includes the door sections, tracking guides, insulation and inserts, spring, hardware, seals, and powder coating.

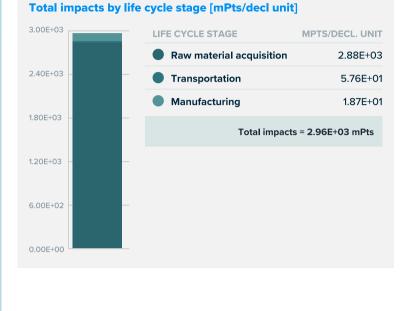
Manufacturing data Reporting period: January 2023 – December 2023

Location: Lewistown, PA

Material composition by wt%

Door sections	Steel	50-55%
Tracking guides	Shaped iron	10-15%
Spring	Steel	10-15%
External hardware	Steel	10-15%
Internal hardware	Steel	5-8%
Door seal	Rubber	<1%
Protective coating	Powder coating	<1%

PART MATERIAL



All life cycle stages

What's causing the greatest impacts

The raw material supply phase dominates the results, accounting for over

90% of the total impacts across nine out of ten TRACI 2.1 categories, with the exception of fossil fuel depletion. The transportation phase (A2) accounts for the next highest contributions, particularly in impact categories such as global warming potential, acidification, eutrophication, smog formation, and fossil fuel depletion. The exception is ozone depletion, where the manufacturing phase (A3) is the second-largest contributor. Raw material supply

contribute the most to impacts in the raw material supply phase (A1). While the steel-based parts have 85% recycled content, they account for ~80% of global warming potential impacts in this phase. The next largest contributors are the foam used in the panes for insulation and the synthetic rubber used for sealing the panel. Transportation

Steel-based parts account for "80% of the total mass of the products and

contributor to life cycle impacts. Raw materials are transported by semi-truck to the Overhead $\mathsf{Door}^{\scriptscriptstyle{\mathsf{IM}}}$ facility, accounting for a relatively high contribution to impact categories such as acidification, global warming potential, ozone depletion, smog formation, and fossil fuel depletion. Manufacturing

The manufacturing phase (A3) is the least impactful contributor to the total

The transportation (A2) of raw materials is the second largest impactful

results. The potential impacts associated with on-site electricity, LPG, diesel, propane, water usage, wastewater treatment, and final product packaging are

relatively low compared to those generated during the transportation phase. **Embodied carbon** Embodied carbon can be defined as the cradle-to-gate (A1-A3) global warming potential impacts. The total embodied carbon per declared unit of

Rolling Steel Service Door Model 630 is $2.14E+03 \text{ kg CO}_2$ -eq per declared

Sensitivity analysis

unit.

Sensitivity analyses were performed to check the robustness of the results where the highest potential environmental impacts are occurring. As the bulk of impacts are attributed to raw materials acquisition, and steel-based parts are the major contributors to those impacts, they were selected for sensitivity analysis.

Global warming potential was evaluated for sensitivity since Overhead Door™

is interested in the potential CO₂-equivalent emissions of its products. Steel-

based parts were selected for sensitivity analysis due to their relatively higher contribution to the overall results. While the steel-based parts have 85% recycled content, decreasing the mass of steel by 20% could result in a potential decrease of total impacts by over 10%. How we're making it greener Steel plays a large role in the environmental impact of overhead doors.

Overhead Door works with steel suppliers who leverage an approximately 85% recycled content, minimizing the amount of primary material needed

to manufacture their products.

A2 TRANSPORT

LIFE CYCLE STAGE

LCA results

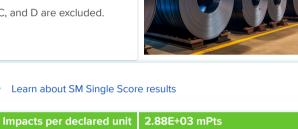
Information modules: Included (X) | Excluded (MND)*

Ecological damage

SM Single Score Learn about SM Single Score results

*Modules A4, A5, B, C, and D are excluded.

A1 RAW MATERIAL SUPPLY



Energy and materials consumed



Truck transportation to

manufacturing facility.



Natural gas consumption for heat

generation in manufacturing

processes.

5.51E+00

3.09E-02

0.58%

0.68%

A3 MANUFACTURING

(X) A3 Manufacturin

Materials or processes contributing >20% to during steel-based part total impacts in each life cycle stage manufacturing.

LCIA impact results per declared unit						
LIFE CYCLE STAGE	A1 RAW MATERIAL SUPPLY	A2 TRANSPORT	A3 MANUFACTURING			

Impact category Unit

kg O₃ eq

CTU_h

CTU_h

 $kg PM_{2.5} eq$

1.15E+02

2.69E+00

97.62%

97.32%

GWP, IPCC _{Total}	kg CO₂ eq	0	2.02E+03	9.08E+01	2.77E+01
GWP, IPCC _{Biogenic}	kg CO₂ eq	0	0.00E+00	0.00E+00	-1.67E+01
GWP, IPCC _{Fossil}	kg CO₂ eq	0	4.14E+02	7.87E+01	1.87E+01
GWP, TRACI _{Total}	kg CO₂ eq	0	2.03E+03	9.00E+01	4.37E+01
GWP, TRACI _{Biogenic}	kg CO₂ eq	0	0.00E+00	0.00E+00	-1.67E+01
GWP, TRACI _{Fossil}	kg CO₂ eq	0	2.03E+03	9.00E+01	6.04E+01
Ozone depletion	kg CFC-11 eq	0	2.24E-05	1.47E-06	4.78E-06
Acidification	kg SO₂ eq	0	1.36E+01	3.43E-01	2.55E-01
Eutrophication	kg N eq	0	3.29E+00	1.00E-01	8.76E-02
Human health damage					
Impact category	Unit				

Additional environmental information Impact category Unit

Smog

Respiratory effects

Carcinogenics

Non-carcinogenics

Ecotoxicity	CTU _e	0	96.59%	2.75%	0.65%
Fossil fuel depletion	MJ surplus	0	1.83E+03	1.79E+02	1.14E+02
References					
References				Rating systems	

ISO 14025:2006 Environmental labels and declarations — Type III

Requirements v4.0

upon request)

environmental declarations — Principles and procedures.

openLCA 2.3 software, and ecoinvent v3.10.

LCA Background Report

ISO 21930:2017, Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services - serves as the core PCR. **UL Part A: Life Cycle Assessment Calculation Rules and Report**

LCA of Overhead Door™ sectional and rolling doors (public version), Overhead

Door™ 2025. Developed using the TRACI v2.1, IPCC 2013 AR5, CML, and

Cumulative Energy Demand (LHV) impact assessment methodologies,

$Sustainable\ Materials\ Institute),\ lindita.bushi@athenasmi.org;\ Hugues\ Imbeault-new and the sustainable of the sustainabl$ Tétreault (Group AGECO); and Jack Geibig (Ecoform).

Download PDF SM Transparency Report/ EPD

March, 2022. PCR review conducted by Lindita Bushi, PhD, Chair (Athena

September, 2020. PCR review conducted by Lindita Bushi, PhD, Chair (Athena Sustainable Materials Institute), lindita.bushi@athenasmi.org; Tim Weller (Allegion), Tim.weller@allegion.com; and Dan Glover (ASSA ABLOY Door Group), dan.glover@assaabloy.com.

UL Environment General Program Instructions v2.5, March 2020 (available

UL Part B: Commercial Steel Doors and Steel Frames EPD Requirements

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 is certain assumptions, data quality, and variability between LCA data sets may still exist. Any EPD

comparison must be carried out at the building level per ISO 21930 guidelines, use the same sub-

category PCR where applicable, include all relevant information modules, be limited to EPDs $\,$

applying a functional unit, and be based on equivalent scenarios with respect to the context of construction works. Some LCA impact categories and inventory items are still under development and can have high levels of uncertainty. To promote uniform guidance on the data collection, calculation, and reporting of results, the ACLCA methodology (ACLCA 2019) was used.

SM Transparency Report (EPD)™

LCA

Environmental product declarations

performance.

8.73E+00

4.75E-02

1.80%

2.00%

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

The intent is to reward project teams for selecting products from

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

Building product disclosure and optimization

manufacturers who have verified improved life-cycle environmental

LEED BD+C: New Construction | v4.1 - LEED v4.1 Building product disclosure and optimization

Industry-wide (generic) EPD

	·
Collaborative for High Performan	ce Schools National

MW C5.1 – Environmental Product Declarations

Third-party certified type III EPD

Criteria

Environmental product declarations

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

Mat 02 - Environmental impacts from construction products **Environmental Product Declarations (EPD)**

○ Industry-average EPD

Product-specific EPD

Validity: 04/28/2025 - 04/28/2030 SM-OHD - 20250428 - 002

EPD

3rd-party reviewed

3rd-party verified

Transparency Report (EPD)

Senior Research Associate at Athena, according to ISO 21930:2017: UL Part A: UL Part B for Commercial Steel Doors and Steel Frames: and ISO 14025:2006. Athena Sustainable Materials Institute 600 Grings Hill Road

This environmental product

declaration (EPD) was externally

verified by Lindita Bushi, PhD.

Sinking Spring, PA 19608 (610) 985-0933

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

SUMMARY

One 3-feet x 7-feet commercial steel

LCIA methodology: TRACI 2.1

JL Part B: Commercial Steel Doors

LCA software; LCI databases openLCA 2.3; ecoinvent v3.10 Public LCA

In accordance with ISO 14044 and

the reference PCR, this life cycle assessment was conducted by **Institute** Sustainable Minds and reviewed by Lindita Bushi, PhD, Senior Research

Associate at Athena. © 2025 | The SM Transparency Report [EPD]* Program is operated by Sustainable Minds® (www.sustainableminds.com) | Priva

2 points

1 product

1 product

.5 points

1 point

BREEAM New Construction 2018

Multi-product specific EPD .75 points

Business Suite 200 Lewisville, Texas 75067 1 (800) 929-3667 Contact us

Overhead Door

2501 S. State Hwv 121

Fire-Rated Model 631

OVERHEAD DOOR

Sustainable Minds



LCA results & interpretation

Rolling Service Doors

Scope and summary

♦ Cradle to gate ○ Cradle to gate with options ○ Cradle to grave

Application

The Fire-Rated Rolling Service Door Model 631 is a slatted door that rolls up to store in a coil above the opening, mounted to the face of the wall and supported by the vertical wall, requiring no connection to the ceiling or roof structure. These doors feature fusible links mounted on both sides of the wall that separate to automatically close the door. Rolling doors are used to provide security against entry or weather protection at exterior and interior openings in industrial, commercial, institutional, and other buildings.

Declared unit

One 3-feet x 7-feet commercial steel door considered in isolation, without an external frame, weighing 73.4 kg (737.6 kg/m³). The 0.051 m thick door includes the door sections, tracking guides, insulation and inserts, spring, hardware, seals, and powder coating.

Manufacturing data Reporting period: January 2023 – December 2023

Location: Lewistown, PA

Material composition by wt%

Door sections	Steel	45-50%
Tracking guides	Shaped iron	25-30%
Spring	Steel	10-15%
External hardware	Steel	5-8%
Internal hardware	Steel	2-5%
Door seal	Rubber	<1%
Protective coating	Powder coating	<1%

LIFE CYCLE STAGE

Transportation

Manufacturing

Raw material acquisition

PART MATERIAL

Total impacts = 1.93E+03 mPts 1.00E+03 5.00E+02 0.00F+00

Total impacts by life cycle stage [mPts/decl unit]

All life cycle stages

What's causing the greatest impacts

The raw material supply phase dominates the results, accounting for over

90% of the total impacts across nine out of ten TRACI 2.1 categories, with the exception of fossil fuel depletion. The manufacturing phase (A3) accounts for the next highest contributions, particularly in impact categories such as global warming potential, ozone depletion, acidification, eutrophication, smog formation, and fossil fuel depletion. The transportation phase (A2) shows a similar contribution overall, though its impacts are generally lower than those of A3. Raw material supply

Steel-based parts account for "80% of the total mass of the products and contribute the most to impacts in the raw material supply phase (A1). While

the steel-based parts have 85% recycled content, they account for $^{\circ}80\%$ of global warming potential impacts in this phase. The next largest contributors are the foam used in the panes for insulation and the synthetic rubber used for sealing the panel. **Transportation**

results. Raw materials are transported by semi-truck to the Overhead Door™ facility. Manufacturing

The manufacturing phase (A3) of raw materials is the second largest

The transportation phase (A2) is the least impactful contributor to the total

impactful contributor to life cycle impacts. The potential impacts associated

with on-site electricity, LPG, diesel, propane, water use, wastewater treatment, and final product packaging are relatively higher than those generated during the transportation phase. **Embodied carbon**

Rolling Steel Service Door Model 631 is 1.43E+03 kg CO₂-eq per declared unit. Sensitivity analysis

Sensitivity analyses were performed to check the robustness of the results

where the highest potential environmental impacts are occurring. As the bulk

Embodied carbon can be defined as the cradle-to-gate (A1-A3) global warming potential impacts. The total embodied carbon per declared unit of

of impacts are attributed to raw materials acquisition, and steel-based parts

are the major contributors to those impacts, they were selected for sensitivity analysis. Global warming potential was evaluated for sensitivity since Overhead Door™ is interested in the potential CO₂-equivalent emissions of its products. Steelbased parts were selected for sensitivity analysis due to their relatively higher

contribution to the overall results. While the steel-based parts have 85% recycled content, decreasing the mass of steel by 20% could result in a potential decrease of total impacts by over 10%. How we're making it greener Steel plays a large role in the environmental impact of overhead doors.

Overhead Door works with steel suppliers who leverage an approximately

85% recycled content, minimizing the amount of primary material needed

to manufacture their products.

(X) A2 Transport

A2 TRANSPORT

LIFE CYCLE STAGE

LCA results

2.00E+03

1.50E+03

Information modules: Included (X) | Excluded (MND)* *Modules A4, A5, B, C, and D are excluded.

SM Single Score Learn about SM Single Score results



Energy and materials consumed

A1 RAW MATERIAL SUPPLY

(X) A1 Raw material supply

MPTS/DECL. UNIT

1.88E+03

3.27E+01

1.87E+01



Truck transportation to

manufacturing facility.



Natural gas consumption for heat

generation in manufacturing

processes.

3.09E-02

0.89%

1.04%

(X) A3 Manufacturing

during steel-based part total impacts in each life cycle stage manufacturing.

Materials or processes contributing >20% to

LCIA impact results per declared unit

LIFE CYCLE STAGE			A1 RAW MATERIAL SUPPLY	A2 TRANSPORT	A3 MANUFACTURING		
Ecological damage							
Impact category	Unit						
GWP, IPCC _{Total}	kg CO ₂ eq	0	1.36E+03	5.15E+01	2.77E+01		
GWP, IPCC _{Biogenic}	kg CO ₂ eq	0	0.00E+00	0.00E+00	-1.67E+01		
GWP, IPCC _{Fossil}	kg CO ₂ eq	0	1.36E+03	5.15E+01	4.45E+01		
GWP, TRACI _{Total}	kg CO ₂ eq	0	1.36E+03	5.11E+01	4.37E+01		

GWP, TRACI kg CO₂ eq 0.00E+00 0.00E+00 -1.67E+01 GWP, TRACI_{Fossil} 1.36E+03 kg CO₂ eq 5.11E+01 6.04E+01 0 kg CFC-11 eq 1.46E-05 Ozone depletion 8.36E-07 4.78E-06 0 8.86E+00 1.94E-01 Acidification kg SO₂ eq 2.55E-01 Eutrophication 2.09E+00 5.69E-02 8.76E-02 kg N eq Human health damage Impact category Unit 5.51E+00 4.95E+00 Smog kg O₃ eq 7.76E+01

1.84E+00

97.56%

97.21%

kg PM_{2.5} eq

CTU_h

Additional environmental information

Impact category Unit Carcinogenics CTU_h

Respiratory effects

Non-carcinogenics

Ecotoxicity	CTU _e	•	96.48%	2.48%	1.04%	
Fossil fuel depletion	MJ surplus	•	1.21E+03	1.01E+02	1.14E+02	
References						
References				Rating systems		

openLCA 2.3 software, and ecoinvent v3.10.

Requirements v4.0

upon request)

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

LCA Background Report

ISO 21930:2017, Sustainability in buildings and civil engineering works -Core rules for environmental product declarations of construction products and services - serves as the core PCR. **UL Part A: Life Cycle Assessment Calculation Rules and Report**

LCA of Overhead Door™ sectional and rolling doors (public version), Overhead

Door™ 2025. Developed using the TRACI v2.1, IPCC 2013 AR5, CML, and

Cumulative Energy Demand (LHV) impact assessment methodologies,

Sustainable Materials Institute), lindita.bushi@athenasmi.org; Hugues Imbeault-Tétreault (Group AGECO); and Jack Geibig (Ecoform).

March, 2022. PCR review conducted by Lindita Bushi, PhD, Chair (Athena

UL Part B: Commercial Steel Doors and Steel Frames EPD Requirements

September, 2020. PCR review conducted by Lindita Bushi, PhD, Chair (Athena

Sustainable Materials Institute), lindita.bushi@athenasmi.org; Tim Weller (Allegion), Tim.weller@allegion.com; and Dan Glover (ASSA ABLOY Door Group), dan.glover@assaabloy.com. UL Environment General Program Instructions v2.5, March 2020 (available

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

category PCR where applicable, include all relevant information modules, be limited to EPDs

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. Any EPD comparison must be carried out at the building level per ISO 21930 guidelines, use the same s

Download PDF SM Transparency Report/ EPD

applying a functional unit, and be based on equivalent scenarios with respect to the context of construction works. Some LCA impact categories and inventory items are still under development and can have high levels of uncertainty. To promote uniform guidance on the data collection, calculation, and reporting of results, the ACLCA methodology (ACLCA 2019) was used.

SM Transparency Report (EPD)™

LCA

Environmental product declarations

performance.

2.69E-02

1.56%

1.75%

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

The intent is to reward project teams for selecting products from

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

Building product disclosure and optimization

manufacturers who have verified improved life-cycle environmental

LEED BD+C: New Construction | v4.1 - LEED v4.1 Building product disclosure and optimization

Environmental product declarations

Industry-wide (generic) EPD

Third-party certified type III EPD

Product-specific Type III EPD 1.5 products

Green Globes for New Construction and Sustainable

1 product

2 points

.5 points

.75 points

1 point

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

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

Product-specific EPD

Multi-product specific EPD

3rd-party verified Validity: 04/28/2025 - 04/28/2030 SM-OHD - 20250428 - 002

3rd-party reviewed

Transparency Report (EPD)

verified by Lindita Bushi, PhD. Senior Research Associate at Athena, according to ISO 21930:2017: UL Part A: UL Part B for Commercial Steel Doors and Steel Frames: and ISO 14025:2006. **Athena Sustainable Materials** Institute

600 Grings Hill Road Sinking Spring, PA 19608 (610) 985-0933

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

This environmental product

declaration (EPD) was externally

Regions; system boundaries

SUMMARY

Public LCA

North America; Cradle-to-gate **Declared unit**

One 3-feet x 7-feet commercial steel

LCA software; LCI databases openLCA 2.3; ecoinvent v3.10

In accordance with ISO 14044 and the reference PCR, this life cycle assessment was conducted by

LCIA methodology: TRACI 2.1

Contact us

Overhead Door

2501 S. State Hwv 121

Lewisville, Texas 75067

Business Suite 200

1 (800) 929-3667

Sustainable Minds and reviewed by Lindita Bushi, PhD, Senior Research Associate at Athena.

Rolling Service Doors

EPD additional content

available in the ecoinvent v3.10 database.

Sustainable Minds

ransparency Report (EPD)

Data

OVERHEAD DOOR

Scenarios and additional technical information

EPD additional content

Background This product-specific plant-specific declaration was created by

Allocation The Overhead Door™ Lewistown facility produces various kinds of door and access solutions. To accurately allocate electricity, LPG, diesel, propane, water usage and wastewater generation to the studied production lines, the plant's total annual energy and water consumption (as reported in

utility bills) was proportionally distributed. Surface is used as an allocation parameter. Annual facility resources were first normalized to each product

collecting production data from the facility in Lewistown, PA. All unit processes

were modeled using primary data. Secondary data sources include those

series based on the total number of overhead doors produced and later scaled down to a 3-feet by 7-feet unit level using annual production quantities. All associated manufacturing resources and waste flows were allocated using the same approach. Per ISO 21930, 2.8.4.1.2, the useable output flows such as steel scrap is not considered as co-products but is considered waste, and no allocation to secondary material, secondary fuels, or recovered energy is applied. There are no co-products produced during their manufacturing processes 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

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

usage, mass, and environmental impacts.

declaration, and no substances considered to be hazardous or toxic according to the TRI 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 is considered high. Overhead Door™ personnel provided detailed bills of materials, and facility managers provided

manufacturers' addresses. The data included is considered complete. The LCA

model included all known material and energy flows. As pointed out in that section, no known flows above 1% were excluded and the sum of all excluded

flows totals less than 5%, whether evaluated by mass, energy, or potential

environmental impact. The consistency of the model is considered high. The bills of materials provided by Overhead Door™ personnel were developed for

multiple internal departments and are maintained regularly. Furthermore, the

utility information for the manufacturing facilities. The raw material

transportation distances were calculated based on the raw material

production beyond that accounted for in the RFCE eGRID data set, and no energy was recovered. No known flows are deliberately excluded from this

modeling assumptions were consistent throughout the model, with a preference for the ecoinvent v3.10 database. LCIA impact factors required by the PCR are global warming potential (GWP 100), IPCC 2013, ozone depletion, acidification, eutrophication, smog, andAbiotic Resource Depletion Potential of Non-renewable (fossil) energy resources (ADPfossil); "These six impact categories are globally deemedmature 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." Major system boundary exclusions

Building operational energy and water use for office work

module), except for biogenic carbon balance reporting

Construction of major capital equipment

Human labor and employee transport

Technical data

declared unit

LCIA results GWP_{Total} (IPCC 2013)

GWP_{Biogenic} (IPCC 2013)

Global warming (TRACI 2.1)

GWP_{Fossil} (IPCC 2013)

Ozone depletion

Acidification

Smog

Eutrophication

Fossil fuel depletion

Respiratory effects

Additional environmental information

Carbon emissions from combustion of

sources used in production processes

per declared unit

GWP_{Biogenic} (IPCC 2013)

Global warming (TRACI 2.1)

GWP_{Fossil} (IPCC 2013)

Ozone depletion

Acidification

Smog

Eutrophication

Fossil fuel depletion

Respiratory effects

Non carcinogenics

Resource use indicators

content used as material

with energy content

an energy carrier (fuel)

per declared unit

GWP_{Total} (IPCC 2013)

LCIA results

Carcinogenics

Ecotoxicity

carrier (fuel)

Additional environmental information

Renewable primary energy used as energy

Renewable primary resources with energy

Total use of renewable primary resources

Non-renewable primary resources used as

Non-renewable primary resources with

energy content used as material Total use of non-renewable primary

resources with energy content

LCIA results GWP_{Total} (IPCC 2013)

waste from renewable and non-renewable

Name Value ASTM E90-09, Standard Test Method for Laboratory Measurement of Sound transmission coefficient Transmission Loss of Building Partitions: STC-21 NFRC 102 - Test Procedure for Measuring the Steady-State Thermal U Value Transmittance of Fenestration Systems: 0.13 Btu/h oF ft

kg CO2 eq

kg CO₂ eq

kg CO₂ eq

kg CO₂ eq

kg SO₂ eq

kg N eq

kg O₃ eq

MJ surplus

kg PM_{2.5} eq

kg CFC-11 eq

1.95E+03

0.00E+00

1.95E+03

1.97E+03

2.19E-05

1.27E+01

3.13E+00

1.11E+02

1.84E+03

2.64E+00

1.33E-06

3.10E-01

9.08E-02

7.91E+00

1.62E+02

4.30E-02

Disposal of packaging materials associated with the final product (A5

Product: Rolling Steel Service Door - 625, Fire-Rated Rolling Service Door -630, Fire-Rated Rolling Service Door - 631.

Coiled steel

Bottom bar and

1.67E+01 Biogenic carbon emissions from packaging kg CO₂

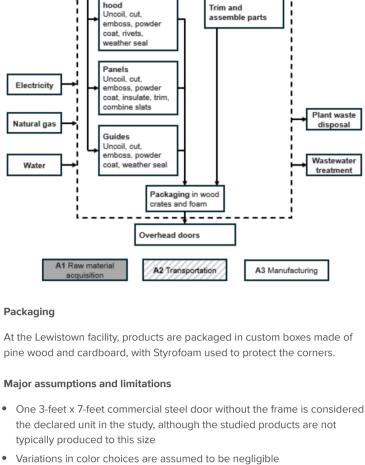
Installation [A5] While the impacts from installation are out of the scope of this cradle-to-gate study, ISO 21930:2017 requires that biogenic carbon

emissions associated with packaging disposal be separately reported.

Transportation Plant

> Metal pipe and spring

Flow diagram



possible environmental impact categories; characterization factors used within the impact assessment methodology may contain varying levels of

etc.

Additional Statements EPDs can complement but cannot replace tools and certifications that are designed to address environmental impacts and/or set performance

thresholds - e.g. Type 1 certifications, health assessments and declarations,

category endpoints, the exceeding of thresholds, safety margins, or risks

While glazing, additional coatings, and accessories may be optionally

included in the products offered, they were not considered in this study

are considered good quality, but actual impacts from material suppliers,

The impact assessment methodology categories do not represent all

LCA results are relative expressions and do not predict impacts on

transport carriers, and local waste processing may vary

Generic data sets used for material inputs, transport, and waste processing

wastewater generation associated with the studied production lines, were estimated and proportionally distributed in this EPD using surface area as the allocation parameter.

The electricity, LPG, diesel, propane, and water usage, as well as

Rolling Steel Service Door Model 625: LCIA results, resource use, output and waste flows, and carbon emissions & removals per

8.22E+01 2.77E+01 2.06E+03 0.00E+00 -1.67E+01 -1.67E+01 8.22E+01 4.45E+01 2.08E+03 8.15E+01 6.04E+01 2.11E+03

4.78E-06

2.55E-01

8.76E-02

5.51E+00

1.14E+02

3.09E-02

2.80E-05

1.33E+01

3.31E+00

1.25E+02

2.12E+03

2.71E+00

0.00E+00

2.14E+03

-1.67E+01

2.15E+03

2.18E+03

2.87E-05

1.42E+01

3.47E+00

1.29E+02

2.12E+03

2.77E+00

100%

100%

100%

5.53E+02

1.84E+02

7.36E+02

4.52E+03

1.12E+01

4.53E+03

Carcinogenics CTUh 97.60% 1.77% 0.63% 100% CTUh Non carcinogenics 97.29% 1.98% 0.74% 100% Ecotoxicity CTUe 96.46% 2.80% 0.74% 100% Resource use indicators Renewable primary energy used as energy MJ, NCV 4.42E+02 2.69E+00 1.01E+02 5.46E+02 carrier (fuel) Renewable primary resources with energy 0.00E+00 MJ, NCV 0.00E+00 1.84E+02 1.84E+02 content used as material Total use of renewable primary resources MJ, NCV 4.42E+02 2.69E+00 2.85E+02 7.30E+02 with energy content

with energy content								
Non-renewable primary resources used as an energy carrier (fuel)	MJ, NCV	4.04E+03	2.03E+02	9.45E+01	4.34E+03			
Non-renewable primary resources with energy content used as material	MJ, NCV	1.24E+02	0.00E+00	5.26E+00	1.29E+02			
Total use of non-renewable primary resources with energy content	MJ, NCV	4.16E+03	2.03E+02	9.98E+01	4.47E+03			
Secondary materials	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Renewable secondary fuels	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Non-renewable secondary fuels	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Recovered energy	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Use of net fresh water resources	m3	3.98E+00	1.76E-01	1.63E+01	2.05E+01			
Abiotic depletion potential, fossil	MJ, NCV	3.68E+03	2.00E+02	1.46E+02	4.03E+03			
Output flows and waste category indicators								
Hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Non-hazardous waste disposed	kg	0.00E+00	0.00E+00	1.97E-03	1.97E-03			
High-level radioactive waste, conditioned, to final repository	kg	1.46E-03	1.22E-05	1.41E-04	1.62E-03			
Intermediate- and low-level radioactive waste, conditioned, to final repository	kg	2.98E-03	2.88E-05	3.18E-04	3.33E-03			
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Carbon emissions and removals								
Biogenic carbon removal from product	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Biogenic carbon emission from product	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Biogenic carbon removal from packaging	kg CO ₂	0.00E+00	0.00E+00	-1.67E+01	-1.67E+01			
Biogenic carbon emission from packaging	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Biogenic carbon emission from combustion of waste from renewable sources used in production processes	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Calcination carbon emissions	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Carbonation carbon removals	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00			

0.00E+00

2.02E+03

0.00E+00

2.02E+03

2.03E+03

2.24E-05

1.36E+01

3.29E+00

1.15E+02

1.83E+03

2.69E+00

97.62%

97.32%

96.59%

4.49E+02

0.00E+00

4.49E+02

4.20E+03

5.97E+00

4.21E+03

Fire-Rated Rolling Service Door Model 630: LCIA results, resource use, output and waste flows, and carbon emissions & removals

kg CO₂

kg CO₂ eq

kg CO₂ eq

kg CO₂ eq

kg CO₂ eq

kg SO₂ eq

kg N eq

kg O₃ eq

MJ surplus

kg PM_{2.5} eq

CTUh

CTUh

CTUe

MJ, NCV

MJ, NCV

MJ, NCV

MJ, NCV

MJ, NCV

MJ, NCV

kg CO2 eq

kg CFC-11 eq

0.00E+00

9.08E+01

0.00E+00

9.08E+01

9.00E+01

1.47E-06

3.43E-01

1.00E-01

8.73E+00

1.79E+02

4.75E-02

1.80%

2.00%

2.75%

2.97E+00

0.00E+00

2.97E+00

2.24E+02

0.00E+00

2.24E+02

0.00E+00

2.77E+01

-1.67E+01 4.45E+01

6.04E+01

4.78E-06

2.55E-01

8.76E-02

5.51E+00

1.14E+02

3.09E-02

0.58%

0.68%

0.65%

1.01E+02

1.84E+02

2.85E+02

9.45E+01

5.26E+00

9.98E+01

R R

Secondary materials	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Renewable secondary fuels	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-renewable secondary fuels	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recovered energy	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water resources	m3	3.98E+00	1.76E-01	1.63E+01	2.05E+01
Abiotic depletion potential, fossil	MJ, NCV	3.72E+03	2.21E+02	1.46E+02	4.08E+03
Output flows and waste category indicators	5				
Hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-hazardous waste disposed	kg	0.00E+00	0.00E+00	1.83E-02	1.83E-02
High-level radioactive waste, conditioned, to final repository	kg	1.51E-03	1.35E-05	1.41E-04	1.66E-03
Intermediate- and low-level radioactive waste, conditioned, to final repository	kg	3.05E-03	3.18E-05	3.18E-04	3.40E-03
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon emissions and removals					
Biogenic carbon removal from product	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon emission from product	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon removal from packaging	kg CO ₂	0.00E+00	0.00E+00	-1.67E+01	-1.67E+01
Biogenic carbon emission from packaging	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon emission from combustion of waste from renewable sources used in production processes	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Calcination carbon emissions	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbonation carbon removals	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon emissions from combustion of waste from renewable and non- renewable sources used in production processes	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5.15E+01

2.77E+01

1.43E+03

1.36E+03

Total 1							
GWP _{Biogenic} (IPCC 2013)	kg CO ₂ eq	0.00E+00	0.00E+00	-1.67E+01	-1.67E+01		
GWP _{Fossil} (IPCC 2013)	kg CO ₂ eq	1.36E+03	5.15E+01	4.45E+01	1.45E+03		
Global warming (TRACI 2.1)	kg CO ₂ eq	1.36E+03	5.11E+01	6.04E+01	1.48E+03		
Ozone depletion	kg CFC-11 eq	1.46E-05	8.36E-07	4.78E-06	2.02E-05		
Acidification	kg SO ₂ eq	8.86E+00	1.94E-01	2.55E-01	9.31E+00		
Eutrophication	kg N eq	2.09E+00	5.69E-02	8.76E-02	2.24E+00		
Smog	kg O ₃ eq	7.76E+01	4.95E+00	5.51E+00	8.81E+01		
Fossil fuel depletion	MJ surplus	1.21E+03	1.01E+02	1.14E+02	1.43E+03		
Additional environmental information							
Respiratory effects	kg PM _{2.5} eq	1.84E+00	2.69E-02	3.09E-02	1.90E+00		
Carcinogenics	CTUh	97.56%	1.56%	0.89%	100%		
Non carcinogenics	CTUh	97.21%	1.75%	1.04%	100%		
Ecotoxicity	CTUe	96.48%	2.48%	1.04%	100%		
Resource use indicators							
Renewable primary energy used as energy carrier (fuel)	MJ, NCV	3.08E+02	1.69E+00	1.01E+02	4.10E+02		
Renewable primary resources with energy content used as material	MJ, NCV	0.00E+00	0.00E+00	1.84E+02	1.84E+02		

Total use of renewable primary resources with energy content	MJ, NCV	3.08E+02	1.69E+00	2.85E+02	5.94E+02		
Non-renewable primary resources used as an energy carrier (fuel)	MJ, NCV	2.82E+03	1.27E+02	9.45E+01	3.04E+03		
Non-renewable primary resources with energy content used as material	MJ, NCV	7.58E+00	0.00E+00	5.26E+00	1.28E+01		
Total use of non-renewable primary resources with energy content	MJ, NCV	2.83E+03	1.27E+02	9.98E+01	3.05E+03		
Secondary materials	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Renewable secondary fuels	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Non-renewable secondary fuels	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Recovered energy	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Use of net fresh water resources	m3	3.98E+00	1.76E-01	1.63E+01	2.05E+01		
Abiotic depletion potential, fossil	MJ, NCV	5.51E+03	1.25E+02	1.46E+02	5.78E+03		
Output flows and waste category indicators	5						
Hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Non-hazardous waste disposed	kg	0.00E+00	0.00E+00	1.09E-02	1.09E-02		
High-level radioactive waste, conditioned, to final repository	kg	1.02E-03	7.65E-06	1.41E-04	1.17E-03		
Intermediate- and low-level radioactive waste, conditioned, to final repository	kg	2.06E-03	1.80E-05	3.18E-04	2.40E-03		
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Carbon emissions and removals							
Biogenic carbon removal from product	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Biogenic carbon emission from product	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Biogenic carbon removal from packaging	kg CO ₂	0.00E+00	0.00E+00	-1.67E+01	-1.67E+01		
Biogenic carbon emission from packaging	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Biogenic carbon emission from combustion of waste from renewable sources used in production processes	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Calcination carbon emissions	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Carbonation carbon removals	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Carbon emissions from combustion of waste from renewable and non- renewable sources used in production processes	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00		



SM Transparency Report (EPD)™

EPD LCA 3rd-party reviewed **Ø** Transparency Report (EPD)

Validity: 04/28/2025 - 04/28/2030 SM-OHD - 20250428 - 002

3rd-party verified

This environmental product declaration (EPD) was externally verified by Lindita Bushi, PhD, Senior Research Associate at Athena, according to ISO 21930:2017; UL Part A; UL Part B for Commercial Steel Doors and Steel Frames; and ISO 14025:2006.

Athena Sustainable Materials 600 Grings Hill Road

Sinking Spring, PA 19608 (610) 985-0933

Athena **Institute**

SUMMARY

Reference PCR

UL Part B: Commercial Steel Doors and Steel Frames

Regions; system boundaries

North America; Cradle-to-gate Declared unit

One 3-feet x 7-feet commercial steel

LCIA methodology: TRACI 2.1

LCA software; LCI databases openLCA 2.3; ecoinvent v3.10

Public LCA

LCA of Overhead Door™ Sectional and Rolling Doors

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.

Overhead Door

2501 S. State Hwy 121 Business Suite 200 Lewisville, Texas 75067 1 (800) 929-3667

Contact us