








FIRE RATED INSULATED STEEL ACCESS DOOR

Fire rated access doors are designed and built to maintain the continuity of a fire barrier when installed in a vertical or horizontal separation. These doors are designed for many purposes essentially residential, commercial and industrial companies.

Model: Fire rated access doors

VALIDATED ECO-DECLARATION

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PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS	TECHNICAL PERFORMANCES
References PFU, PFI, PFI-GYP, PFI-PLY, PFI-SS.	Life Cycle Assessment -	Performance tests See page 7
Final manufacturing location Montreal, QC H1E 6N6 CANADA	Reference service life -	MANUFACTURER'S ENVIRONMENTAL MANAGEMENT
Components Stainless steel (PFI-SS), satin coat steel (PFU, PFI, PFI-GYP, PFI-PLY), cold rolled steel (PFU, PFI, PFI-GYP, PFI-PLY), mineral wool, hardware, corner bead (PFI-GYP), plaster flange (PFI-PLY), powder coat (except PFI-SS).	Product's carbon footprint -	
ATTRIBUTES	Environmental Product Declaration ISO 14025:2006 -	ISO 14001 Certification -
	INGREDIENTS AND EMISSIONS	Extended Producer Responsibility (Take Back Program) -
Recycled Content Pre-consumer: 18.2% - 19.7% Post-consumer: 31.9% - 60.5%	Declaration of chemical ingredients 1,000 ppm	Corporate Sustainability Report (CSR : GRI, ISO 26000, BNQ 21000 or others) -
Sourcing of raw materials The source of extraction and/or location of raw materials has been documented for 2.8% to 46.6% of final product weight.	Type of declaration HPD® version 2.1 Health Product Declaration®	CERTIFICATIONS AND CONFORMITIES
Certified Wood -	Emission test -	
Rapidly renewable materials -	VOCs -	  
Biobased materials -	Formaldehyde -	
	Others -	

Since 1985, Cendrex has been designing and manufacturing high quality standard and non-standard access doors, roof hatches, floor hatches and cabinets. Cendrex's products are available locally throughout North America, due to an extensive distribution network of major construction material distributors and strategically located warehouses.

11303, 26^e avenue, Montreal, QC, H1E 6N6 CANADA
<http://www.cendrex.com/index.php>

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ENVIRONMENTAL DATA SHEET

FIRE RATED INSULATED STEEL ACCESS DOOR



PFU



Model: PFU
Dimensions (Door Size – W X H)
Minimum: 6" X 6" (152,4 mm X 152,4 mm)
Maximum: W x H ≤ 864 in² ; W max = 27 (685,8 mm) ; H max = 39 (990,6 mm)

PFI



Model: PFI
Dimensions (Door Size – W X H)
Minimum: 6" X 6" (152,4 mm X 152,4 mm)
Maximum horizontal installation: W x H ≤ 864 in² ; W max = 27 (685,8 mm) ; H max = 39 (990,6 mm)
Maximum vertical installation: 48" X 48" (1219 mm X 1219 mm) W x H ≤ 2304 in² ;
 W max = 51 (1295,4 mm) ; H max = 51 (1295,4 mm)

Characteristics (PFU and PFI)

Material: 16 gauge cold rolled steel frame and 20 gauge galvalneal steel door
 For PFI-SS: 16 gauge stainless steel frame and 20 gauge stainless steel door
Insulation: Mineral wool
Hinge: Continuous piano hinge allows opening to 89° for PFU and 105° for PFI
Lock/latch: Self latching ring operated slam latch inside and a hex head slam latch outside
Finish: High quality white powder coat primer
Packaging: Individually wrapped, 1 per box

ATTRIBUTES

RECYCLED CONTENT

Final product	Weight ratio	Pre-consumer	Post-consumer
PFU	100%	18.3%	31.9%
PFI	100%	18.2%	32.0%
PFI-GYP	100%	19.7%	33.3%
PFI-PLY	100%	19.7%	33.3%
PFI-SS	100%	19.7%	60.5%

Component (with recycled content)	Weight ratio	Pre-consumer	Post-consumer
Stainless Steel ¹	89.0%	19.0%	68.0%
Satin Coat Steel ²	57.2% - 62.1%	27.0%	42.0%
Cold Rolled Steel ²	25.9% - 31.8%	0%	25.0%
Insulation - Mineral wool	7.0%	40.0%	0%
Corner bead ³	1.0%	17.8%	74.3%
Plaster flange ⁴	1.0%	17.8%	74.3%

¹Present only for PFI-SS
²Present for PFU / PFI / PFI-GYP / PFI-PLY
³Present only for PFI-GYP
⁴Present only for PFI-PLY

Validated Eco-Declaration – Recycled Content
 Methodology: on-site audit, supply chain evaluation, analysis and validation of the recycled content data according to the weight ratio of each of the components used in manufacturing the final product.
 Vertima's procedure: VERT-032008-01, Second Edition.

The data included in this Environmental Data Sheet has been provided by the client and the suppliers, who are responsible for its veracity and its integrity. Vertima follows a rigorous protocol, including an on-site audit of the factory, an audit of the manufacturer's supply chain documentation, and the analysis and validation of all supporting documents. However, Vertima cannot be held responsible for false or misleading information that may cause any loss or damage suffered, caused in all or in part, by errors and/or omissions relative to the collection, compilation and/or interpretation of data.
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ATTRIBUTES (CONTINUED)

SOURCING OF RAW MATERIALS

Weight ratio	Final manufacturing location
100%	Montreal, QC H1E 6N6 CANADA

Validated Eco-Declaration – Sourcing of raw materials

Methodology: on-site audit, supply chain evaluation, analysis and validation of the sourcing of raw materials data according to the weight ratio of each of the components used in manufacturing the final product.

Vertima's procedure: VERT-032008-02, Second Edition.

Component	Weight ratio	Extraction location	Transportation
Stainless Steel (recycled content) ¹	77.4%	N/A	N/A
Stainless Steel ¹	11.6%	N/A	N/A
Satin Coat Steel (recycled content) ²	39.4% - 42.8%	Hamilton, ON	Road
Satin Coat Steel ²	17.7% - 19.2%	N/A	N/A
Cold Rolled Steel (recycled content) ²	6.5% - 8.0%	N/A	N/A
Cold Rolled Steel ²	19.4% - 23.9%	N/A	N/A
Insulation - Mineral wool (recycled content)	2.8%	Milton, ON	Road
Insulation - Mineral wool	4.2%	N/A	N/A
Hardware	3.5% - 4.0%	N/A	N/A
Corner bead (recycled content) ³	0.9%	Hamilton, ON	Road
Corner bead ³	0.1%	N/A	N/A
Plaster flange (recycled content) ⁴	0.9%	Hamilton, ON	Road
Plaster flange ⁴	0.1%	N/A	N/A
Powder coat	0.5%	N/A	N/A

¹Present only for PFI-SS

²Present for PFU / PFI / PFI-GYP / PFI-PLY

³Present only for PFI-GYP

⁴Present only for PFI-PLY

The source of extraction and/or location of raw materials has been documented for 2.8% to 46.6% of final product weight.



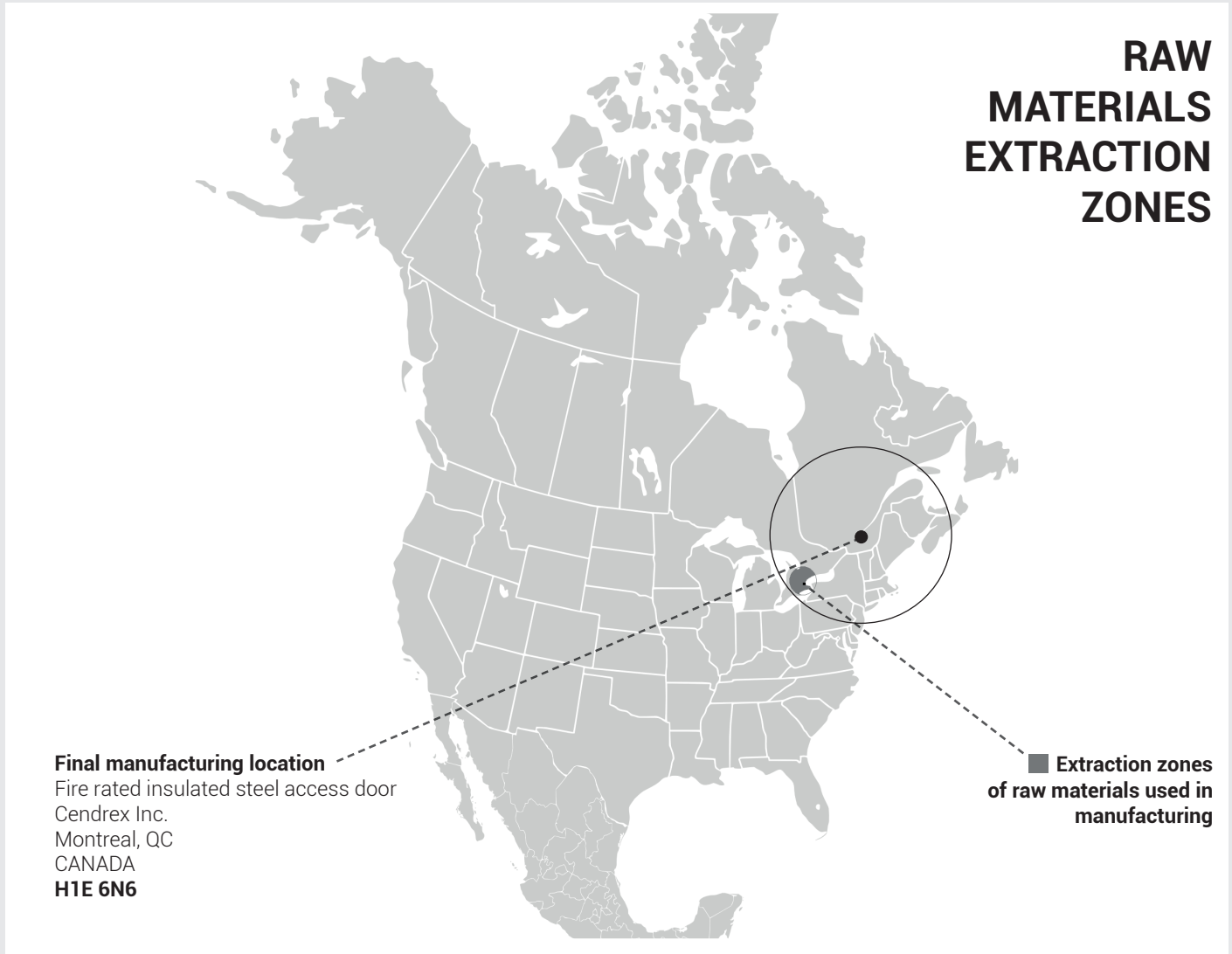
ENVIRONMENTAL DATA SHEET

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ATTRIBUTES (CONTINUED)

SOURCING OF RAW MATERIALS (CONTINUED)



1. EXTRACTION LOCATION OF RECYCLED STEEL

Canada: Hamilton, ON

2. EXTRACTION LOCATION OF INSULATION RECYCLED RAW MATERIALS

Canada: Within a 117 km radius around the plant located in Milton, ON

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INGREDIENTS AND EMISSIONS

DECLARATION OF CHEMICAL INGREDIENTS



VERSION 2.1

Type of declaration: Health Product Declaration® (HPD®) version 2.1

Period of validity: March 2018 to March 2021

HPD name: Non-Insulated Steel Access Door

Summary of product contents and results from screening individual chemical substances against HPD Priority Lists¹ and the GreenScreen for Safer Chemicals^{®2}.

HPDC repository URL: <http://www.hpd-collaborative.org/hpd-public-repository/>

The Health Product Declaration® and logo is owned by the Health Product Declaration® Collaborative and is used with permission.

Declaration: ■ Prepared by Vertima inc., third party approved by HPDC

Ingredients inventory threshold: 1,000 ppm

Full disclosure of intentional ingredients: Yes

Full disclosure of known hazards: Yes

Hazard(s) associated with the product ingredients:

This HPD Standard describes a declaration of product content and direct health hazards associated with exposure to its individual contents. The Declaration is not an assessment of risks associated with actual use of the product. It does not address the potential health impacts of substances used or created during manufacture that do not appear in the final product as residuals, nor substances created during combustion or other degradation processes.

Highest concern GreenScreen® Benchmark: Benchmark 1³

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> PBT (Persistent, Bioaccumulative, Toxic) | <input checked="" type="checkbox"/> Respiratory | <input checked="" type="checkbox"/> Physical hazard |
| <input checked="" type="checkbox"/> Cancer | <input type="checkbox"/> Neurotoxicity | <input type="checkbox"/> Global warming |
| <input checked="" type="checkbox"/> Gene mutation | <input checked="" type="checkbox"/> Mammal | <input type="checkbox"/> Ozone depletion |
| <input checked="" type="checkbox"/> Development | <input type="checkbox"/> Land toxicity | <input checked="" type="checkbox"/> Multiple |
| <input checked="" type="checkbox"/> Reproductive | <input checked="" type="checkbox"/> Aquatic toxicity | <input type="checkbox"/> Unknown |
| <input checked="" type="checkbox"/> Endocrine | <input checked="" type="checkbox"/> Skin or eye | |

¹Refer to Annex D of HPD® Open Standard Version 2.1, May 2017: <http://www.hpd-collaborative.org>

²GreenScreen for Safer Chemicals® method: <http://www.greenscreenchemicals.org/>

³GreenScreen (GS) Benchmark scores of chemical ingredients: Benchmark 1 (Avoid, chemical of high concern), Benchmark 2 (Use but search for safer substitutes), Benchmark 3 (Use but still opportunity for improvement), Benchmark 4 (Prefer, safer chemical).

TABLE OF INGREDIENTS

Component	Role	Weight ratio	CAS ¹	GreenScreen ^{®2}	Other applicable score (for more details refer to the HPD [®])
Stainless Steel	Main material	89.0%	7440-47-3	LT-1	LT-P1 and LT-UNK scores also present
Satin Coat Steel	Main material	57.2% - 62.1%	7440-02-0, 7439-92-1, 7440-43-9	LT-1	LT-P1 scores also present
Cold Rolled Steel	Main material	25.9% - 31.8%	7440-02-0, 7439-92-1, 7440-43-9	LT-1	LT-P1 scores also present
Insulation - Mineral wool	Insulation	7.0%	50-00-0	LT-1	LT-UNK scores also present
Hardware	Hardware	3.5% - 4.0%	7440-02-0, 7440-43-9	LT-1	LT-P1 and LT-UNK scores also present
Corner bead	Hardware	1.0%	7440-02-0, 7439-92-1, 7440-43-9	LT-1	LT-P1 scores also present
Plaster flange	Hardware	1.0%	7440-02-0, 7439-92-1, 7440-43-9	LT-1	LT-P1 scores also present
Powder coat	Coating	0.5%	1333-86-4	LT-1	LT-UNK, BM-2 and BM-3 scores also present

¹Only the CAS numbers with the score of highest concern are listed. The complete list of substances can be found in the HPD[®].

²GS List Translator (LT) scores of chemical ingredients: LT-1, likely GS Benchmark 1; LT-P1, possible GS Benchmark 1; LT-U or LT-UNK, present on GS Specified Lists but there is insufficient information to classify the hazards as LT-1 or LT-P1 (does not mean the chemical is safe).

Validated Eco-Declaration – Declaration of chemical ingredients

Methodology: validation of the documentation confirming the methodology and reporting of chemical ingredients.

Vertima's procedure: VERT-032009-01, Second Edition.

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TECHNICAL PERFORMANCES

PERFORMANCE TESTS

Non-exhaustive list. Refer to the technical documentation of Fire rated insulated steel access door for more details.



For installation in vertical wall assemblies: Certified to standards: UL 10B (1997), UL 10B (2009), NFPA 252 (2003), NFPA 252 (2008), NFPA 252 (2012), CAN/ULC S104 (R1985), CAN/ULC S104 (2010). RATING ACHIEVED: 3 hours, neutral/negative pressure.

For installation in horizontal ceiling assemblies: Certified to standards: ASTM E119 (2012), CAN/ULC S101 (2007). RATING ACHIEVED: 3 hours in non-combustible construction. 1 hour in combustible construction.

Source: Cendrex Inc.

WARRANTY

All doors manufactured by Cendrex meet or exceed industry standards and are covered by a "Quality Assurance" warranty based on our technical specifications. Cendrex products and all related parts are warranted to be free from defects in materials and workmanship. This warranty covers a ONE (1) year period from the date of shipment. Cendrex is not responsible for any problems caused by faulty installation, abuse or misuse.

Source: Cendrex Inc.

MANUFACTURER'S ENVIRONMENTAL MANAGEMENT PROGRAM

MANUFACTURER'S COMMITMENT

Cendrex participates actively in the "ICI ON RECYCLE!" program, which encourages companies to implement sustainable strategies to better our environment. This program allows for companies to be conscious about their environmental performance by offering them technics to better manage their residual materials.



Cendrex has presently achieved a level 2 status in this program. According to "ICI ON RECYCLE!", this means that our company has:

1. Conducted at least 3 awareness activities for our staff as well as for our clients.
2. Implemented at least 5 reduction methods that meet at least 3 categories of residual materials.
3. Put in place recycling and/or recovery methods for at least 3 categories of residual materials.

Source: Cendrex Inc.

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PRODUCT CONTRIBUTION SUMMARY

LEED® v4 requirements for Building Design + Construction (BD+C)

New Construction and Major Renovation, Core and Shell, School, Retail, Data Centers, Warehouse and Distribution Centers, Hospitality and Healthcare.

LEED® v4 requirements for Interior Design + Construction (ID+C)

Commercial Interiors, Retail and Hospitality.

MATERIALS AND RESOURCES		PRODUCT CONTRIBUTIONS	
MR	Building Product Disclosure and Optimization – Sourcing of Raw Materials Option 2: Leadership extraction practices (1 point) May also contribute to the location valuation factor if the product is sourced (extracted, manufactured, purchased) within 160 km of the project site.	Contribute	ATTRIBUTES Recycled Content Pre-consumer (18.2% - 19.7%) Post-consumer (31.9% - 60.5%) Various among product - see page 2
			INGREDIENTS AND EMISSIONS HPD® version 2.1 Health Product Declaration®
MR	Building Product Disclosure and Optimization – Material Ingredients Option 1: Material ingredients reporting (1 point) Cendrex's fire rated insulated steel access door contributes to this credit due to the availability of Health Product Declarations® and is valued as 1 whole product out of the 20 needed for the purposes of credit achievement calculation.	Contribute	ATTRIBUTES Recycled Content Pre-consumer (18.2% - 19.7%) Post-consumer (31.9% - 60.5%) Various among product - see page 2
			INGREDIENTS AND EMISSIONS HPD® version 2.1 Health Product Declaration®
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	Low-Emitting Materials Option 1: Product category calculation (1-3 points)	Do not contribute ¹	INGREDIENTS AND EMISSIONS ¹ Cendrex's fire rated insulated steel access door don't contribute because contain insulation. Must be tested and determined compliant with the standard method of the California Department of Public Health (CDPH) v1.2-2017.

It is important to consider that the total amount of possible points reflects the number of achievable points in each credit category. The product itself cannot achieve this score, as defined above, but is considered as a beneficial element in order to obtain LEED® credits.

