




GAREX DOORS

Our models are made of steel or aluminum cladding that is covered with a baked polyester paint. Steel plates are inserted into the panel at locations dedicated to hardware. Exclusive XPS extruded polystyrene end caps are inserted at the ends of the panels prior to pressure injection of polyurethane insulation.

All these operations increase the rigidity, mechanical resistance, insulation, quality of the panel and better resistance to moisture (the extruded polystyrene XPS end block is rot-proof).

VALIDATED ECO-DECLARATION

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PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS	TECHNICAL PERFORMANCES
References Steel doors, size 10' X 8' Aluminum doors, size 9' X 7' Commercial steel doors, size 14' x 14'	Life Cycle Assessment -	Performance tests -
Final manufacturing location Val-Alain, QC G0S 3H0 CANADA	Reference service life -	
Components Cladding: Pre-painted steel or pre-painted aluminum. Hardware: galvanized steel or steel or steel & nylon or aluminum or melting. Insulation of polyurethane. End Block of polystyrene. PVC. Adhesive.	Product's carbon footprint -	MANUFACTURER'S ENVIRONMENTAL MANAGEMENT
ATTRIBUTES	Environmental Product Declaration ISO 14025:2006 -	
Recycled Content Pre-consumer: 19.6% - 21.7% Post-consumer: 35.7% - 36.6%	INGREDIENTS AND EMISSIONS	ISO 14001 Certification -
Sourcing of raw materials The source of extraction and/or location of raw materials has been documented to 54.1% to 55.8% of final product weight.	Declaration of chemical ingredients 1,000 ppm	Extended Producer Responsibility (Take Back Program) -
Certified Wood -	Type of declaration HPD® version 2.1 Health Product Declaration®	Corporate Sustainability Report (CSR : GRI, ISO 26000, BNQ 21000 or others) -
Rapidly renewable materials -	Emission test -	CERTIFICATIONS AND CONFORMITIES
Biobased materials -	VOCs (Factory-applied adhesive) 0 g/L	
	Formaldehyde -	
	Others -	

Since 1991, Garex specializes in the manufacture of metal garage doors insulated with injected polyurethane foam whose advanced design offers very high energy efficiency. All doors whether residential, commercial or industrial are crafted with attention to detail by an experienced team committed to product quality and customer satisfaction. Our superior quality doors are offered in a variety of designs and colors to meet all requirements and at competitive prices.

610, rue Principale, Val-Alain QC G0S 3H0 CANADA
www.garexdoors.com

MasterFormat®: 08 36 13

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VED18-1013-01

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Period of validity: **06/2018 to 06/2019**



ENVIRONMENTAL DATA SHEET

GAREX DOORS



Product description

The steel sheet is galvanized (Z-180) on both sides (outside and inside of the door) and the aluminum sheet is covered with a chromate pre-treatment, a primer coat and two baked on finish coats of paint.

A weatherstrip profile is inserted between the panels to obtain a perfect seal*. With the foam pressure-injected polyurethane insulation makes the composite panels lightweight and robust. Extruded polystyrene end block XPS resistant to moisture and mildew are inserted at both ends of the panels. Furthermore, these end blocks offer better bolting resistance** and increase the rigidity of the panels. At the bottom, a "U" shape ultra-resistant weatherstrip is inserted in a PVC profile to create a perfect seal with the shape of the floor.

* Report can be provided on air infiltration and water tightness tests

** Test report on our XPS end caps can be provided

Characteristics

Steel thickness: 26 gauge (0.40 mm - 0.0175 po) / Aluminum thickness: 23 gauge (0.61 mm - 0.024 po)

Steel weight: 9.69 kg/m² - 2 lbs/pi² / Aluminum weight: 7.08 kg/m² - 1.45 lbs/pi²

Insulation factor: RSI 2.81 - R16

Door thickness: 44.5 mm - 1 3/4 po

PU Insulation density: 40 kg/m³ - 2.5 lbs/pi³

ATTRIBUTES

RECYCLED CONTENT

Final product	Weight ratio	Pre-consumer	Post-consumer
Steel doors, size 10' X 8'	100%	19.6%	35.7%
Aluminum doors, size 9' X 7'	100%	21.7%	35.7%
Commercial steel doors, size 14' x 14'	100%	20.8%	36.6%
Component (with recycled content)	Weight ratio *	Pre-consumer	Post-consumer
Pre-painted steel ¹	29.7% - 36.6%	27.0%	42.0%
Pre-painted aluminum ²	22.6%	45.0%	47.0%
Hardware galvanized steel - supplier # 1	24.2% - 34.1%	27.0%	42.0%
Hardware galvanized steel - supplier # 2	4.0% - 7.2%	0%	25.0%
Hardware steel	10.9% - 13.4%	27.0%	42.0%
Hardware steel & nylon ³	0.9% - 1.3%	0%	25.0%
End Block - Polystyrene	2.3% - 5.6%	0%	100%

¹ Steel doors, size 10' X 8' and Commercial steel doors, size 14' x 14'

* Percentages include recycled and non-recycled content.

² Aluminum doors, size 9' X 7'

³ Aluminum doors, size 9' X 7' and Steel doors, size 10' X 8'

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 the manufacturing the final product.

Vertima's procedure: VERT-032008-01, Second Edition.

SOURCING OF RAW MATERIALS

Weight ratio	Final manufacturing location
100%	Val-Alain, QC G0S 3H0 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.

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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ENVIRONMENTAL DATA SHEET

GAREX DOORS



ATTRIBUTES (CONTINUED)

SOURCING OF RAW MATERIALS (CONTINUED)

Component	Weight ratio	Extraction location	Transportation
Pre-painted steel ¹	9.2% - 11.4%	N/A	N/A
Pre-painted steel (recycled) ¹	20.5% - 25.3%	Hamilton, Ontario	Road
Pre-painted aluminum ²	1.8%	N/A	N/A
Pre-painted aluminum (recycled) ²	20.8%	Ashville, Ohio	Road
Hardware galvanized steel - supplier # 1	7.5% - 10.6%	N/A	N/A
Hardware galvanized steel - supplier # 1 (recycled)	16.7% - 23.5%	Hamilton, Ontario	Road
Hardware galvanized steel - supplier # 2	3.0% - 5.4%	N/A	N/A
Hardware galvanized steel - supplier # 2 (recycled)	1.0% - 1.8%	N/A	N/A
Hardware steel	3.4% - 4.1%	N/A	N/A
Hardware steel (recycled)	7.5% - 9.2%	Hamilton, Ontario	Road
Hardware steel & nylon ³	0.7% - 1.0%	N/A	N/A
Hardware steel & nylon (recycled) ³	0.2% - 0.3%	Hamilton, Ontario	Road
Insulation – Polyurethane	8.3% - 11.4%	N/A	N/A
End Block – Polystyrene (recycled)	2.3% - 5.6%	Montreal, Quebec	Road
PVC - supplier # 1	2.8% - 9.0%	N/A	N/A
PVC - supplier # 2 ³	1.0% - 1.4%	N/A	N/A
Hardware aluminum	0.6% - 1.6%	N/A	N/A
Hardware melting ⁴	0.5%	N/A	N/A
Adhesive	0.1%	N/A	N/A

¹ Steel doors, size 10' X 8' and Commercial steel doors, size 14' x 14'

² Aluminum doors, size 9' X 7'

³ Aluminum doors, size 9' X 7' and Steel doors, size 10' X 8'

The source of extraction and/or location of raw materials of Steel doors, size 10' X 8' has been documented to 55.8% of final product weight.

The source of extraction and/or location of raw materials of Premium Aluminum doors, size 9' X 7' has been documented to 54.1% of final product weight.

The source of extraction and/or location of raw materials of Commercial steel doors, size 14' x 14' has been documented to 55.6% of final product weight.

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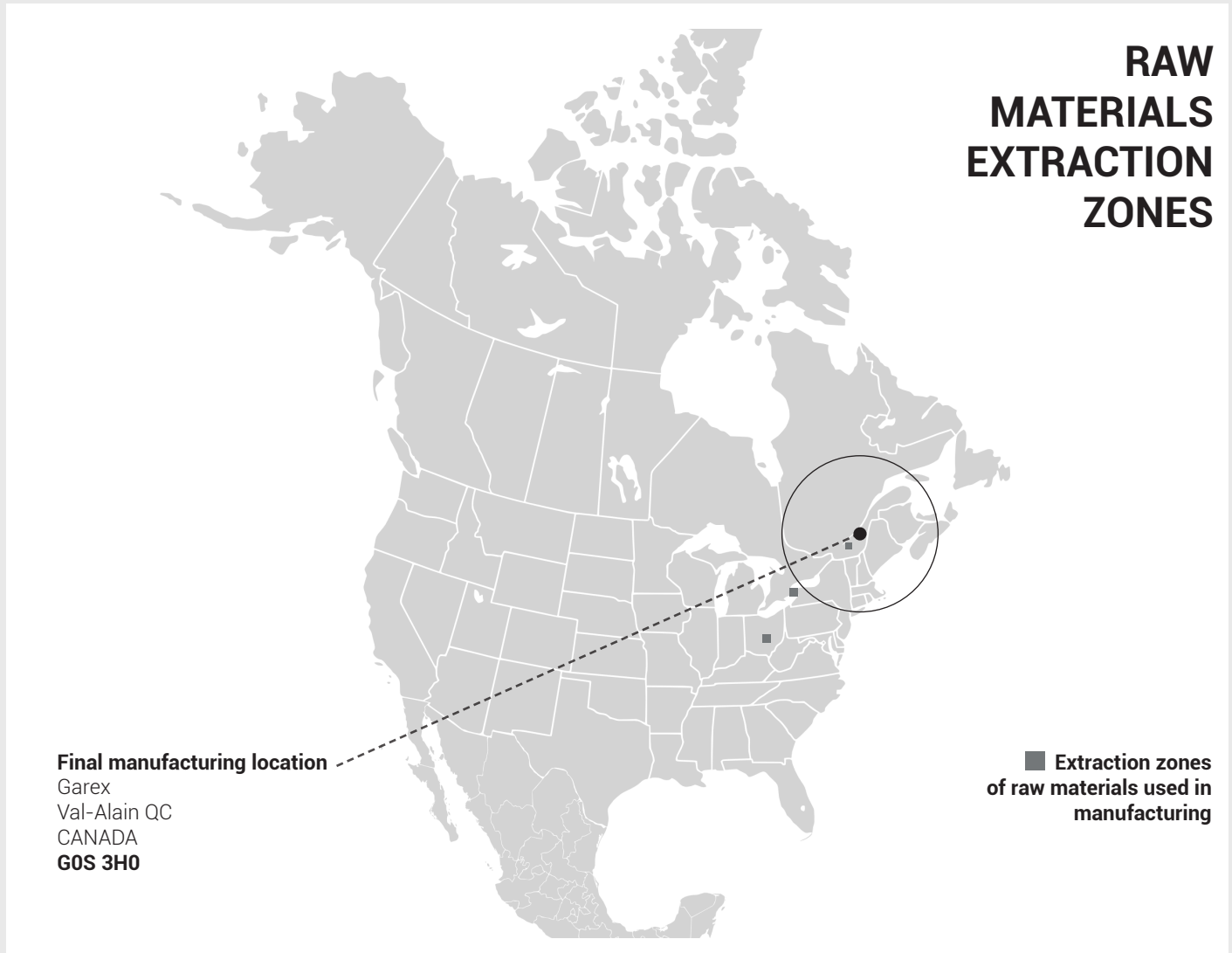
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ATTRIBUTES (CONTINUED)

SOURCING OF RAW MATERIALS (CONTINUED)



- 1. EXTRACTION LOCATION OF RECYCLED STEEL** (Details available upon request)
Canada: Hamilton, ON
- 2. EXTRACTION LOCATION OF RECYCLED ALUMINUM** (Details available upon request)
United States: Ashville, OH
- 3. EXTRACTION LOCATION OF RECYCLED POLYSTYRENE** (Details available upon request)
Canada: Montreal, QC

INGREDIENTS AND EMISSIONS

DECLARATION OF CHEMICAL INGREDIENTS



VERSION 2.1

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

Period of validity: May 2018 to May 2021

HPD name: Steel doors

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/>

Results presented below don't include the aluminum doors, size 9' X 7'.

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: List Translator Likely Benchmark 1³

PBT (Persistent, Bioaccumulative, Toxic)

Cancer

Gene mutation

Development

Reproductive

Endocrine

Respiratory

Neurotoxicity

Mammal

Land toxicity

Aquatic toxicity

Skin or eye

Physical hazard

Global warming

Ozone depletion

Multiple

Unknown

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 - Steel doors 10' X 8' and Commercial steel doors 14' X 14'

Component	Role	Weight ratio	CAS ¹	GreenScreen® ²	Other applicable score (for more details refer to the HPD®)
Pre-painted steel	Panel	29.7% - 36.6%	7440-02-0	LT-1	LT-P1 scores also present
Hardware galvanized steel - supplier # 1	Hardware	24.2% - 34.1%	7440-02-0	LT-1	LT-P1 scores also present
Hardware galvanized steel - supplier # 2	Hardware	4.0% - 7.2%	7439-89-6 / 7440-66-6	LT-P1	-
Hardware steel	Hardware	11.7% - 13.4%	7440-02-0	LT-1	LT-P1 scores also present
Hardware steel & nylon	Hardware	0% - 0.9%	7439-89-6 / 7439-96-5	LT-P1	LT-UNK scores also present
Insulation – Polyurethane	Insulation	8.3% - 10.1%	9009-54-5 / 460-73-1	LT-UNK	-
End Block – Polystyrene	Structure	2.4% - 4.1%	9003-53-6	LT-UNK	-
PVC - supplier # 1	Hardware	1.8% - 4.4%	13463-67-7 / 1333-86-4 117-81-7 / 68515-49-1 14808-60-7 / Undisclosed	LT-1	LT-P1, LT-UNK, BM-2, BM-3 scores also present
PVC - supplier # 2	Hardware	0% - 1.0%	13463-67-7	LT-1	LT-P1 and LT-UNK scores also present
Hardware aluminum	Hardware	0.6% - 1.6%	7440-02-0	LT-1	LT-P1 and LT-UNK scores also present
Hardware melting	Hardware	0% - 0.5%	7439-89-6 / 7439-96-5	LT-P1	LT-UNK and BM-2 scores also present
Adhesive	Assembly	0.1%	64742-52-5	LT-1	LT-UNK 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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INGREDIENTS AND EMISSIONS (CONTINUED)

VOLATILE ORGANIC COMPOUNDS (VOCs)

The adhesive is applied during the manufacturing of the Garex Doors. For category of products presented below, the value refers to the VOC content of adhesive in their liquid state.

Adhesive		
Manufacturer	Product	VOC content
KLEIBERIT Adhesives	Glue	0 g/L

Validated Eco-Declaration – Emissions and Volatile Organic Compounds (VOCs)
 Methodology: validation of documents attesting VOCs emissions.
 Vertima's procedure: VERT-032009-02, Second Edition.

TECHNICAL PERFORMANCES

WARRANTY

LIMITED LIFETIME WARRANTY, RESIDENTIAL GARAGE DOORS

GAREX warrants all products it manufactures against manufacturing defects for a period of one (1) year from the date of purchase of the product from one of its authorized dealers. The warranty covers only residential use, commercial and rental building uses of the product are not covered by the warranty. GAREX warrants its light-colored door panels for a period of twenty-five (25) years. The installation of a dark colored door panels decreases the warranty period to fifteen (15) years. Please see our website for a complete description of our warranty.

CERTIFICATE OF WARRANTY, COMMERCIAL & INDUSTRIAL DOORS

GAREX guarantees all the products it manufactures against any manufacturing defect. Commercial & industrial warranty certificates are specific to customers and projects and must be approved by Garex beforehand. Please consult your Garex distributor for the complete description of our commercial & industrial warranties.

Source: Garex Doors

MANUFACTURER'S ENVIRONMENTAL MANAGEMENT PROGRAM

MANUFACTURER'S COMMITMENT

Our environmental commitment is more than a long-term vision it is a responsible management method in all spheres of the company.

- Minimize our impact on the environment by reusing and / or recycling our waste, or by transferring it to local businesses for use as a resource.
- Consider the life cycle of our products by designing them to be as sustainable as possible.
- Build a good relationship with the local community by supporting organizations, encouraging local actions, sponsoring events, offering support to the community.
- Use energy efficiency measures by turning off lights during off hours, reducing water use, buying or exchanging services locally and reducing fuel costs.
- Use recycled materials.
- Optimize the energy performance of our products.

From design to manufacturing, our actions demonstrate this commitment on a daily basis.

Source: Garex Doors



ENVIRONMENTAL DATA SHEET

GAREX DOORS



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 Steel doors, size 10' X 8' Pre-consumer (19.6%) Post-consumer (35.7%) Aluminum doors, size 9' X 7' Pre-consumer (21.7%) Post-consumer (35.7%) Commercial steel doors, size 14' x 14' Pre-consumer (20.8%) Post-consumer (36.6%)
			INGREDIENTS AND EMISSIONS HPD® version 2.1 Health Product Declaration® ¹ Aluminum doors, size 9' X 7' don't contribute, because they are not included in HPD.
MR	Building Product Disclosure and Optimization – Material Ingredients Option 1: Material ingredients reporting (1 point) Steel doors, size 10' X 8' and Commercial steel doors, size 14' x 14' contribute to this credit due to the availability of Health Product Declarations® and are valued as 1 whole product out of the 20 needed for the purposes of credit achievement calculation.	Contribute ¹	INGREDIENTS AND EMISSIONS HPD® version 2.1 Health Product Declaration® ¹ Aluminum doors, size 9' X 7' don't contribute, because they are not included in HPD.
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	Low-Emitting Materials Option 1: Product category calculation (1-3 points) Number of points is dependent on the LEED® rating system and the number of compliant categories.	Do not contribute ²	INGREDIENTS AND EMISSIONS ² 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 note that the points identified above are linked with each of the credits where the product contributes as part of a LEED® v4 certification process. The product itself is only one element among others to reach the target score.

Garex doors 1 ½ "(44.5 mm) thick polyurethane-insulated with R-16 (RSI 2.81) thermal resistance promote the energy performance of the building envelope.

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GAREX DOORS



PRODUCT CONTRIBUTION SUMMARY (CONTINUED)

LEED® v4 requirements for homes

Applies to single family homes, multi-family (one to three stories), or multi-family (four to six stories). Includes homes and multifamily low-rise and multi-family mid-rise.

MATERIALS AND RESOURCES		PRODUCT CONTRIBUTIONS	
MR	Environmentally Preferable Products Maximum of 4 points depending on both options in the context of each project. Option 2: Environmentally Preferable Products Garex doors meet criterion for this option, because the final product contain at least 25% of post-consumer recycled content.	Contribute	ATTRIBUTES Recycled Content Steel doors, size 10' X 8' Pre-consumer (19.6%) Post-consumer (35.7%) Aluminum doors, size 9' X 7' Pre-consumer (21.7%) Post-consumer (35.7%) Commercial steel doors, size 14' x 14' Pre-consumer (20.8%) Post-consumer (36.6%)
INDOOR ENVIRONMENTAL QUALITY		CONTRIBUTIONS DU PRODUIT	
QEI	Low-Emitting Products (0.5-3 points) At least 90% of all materials in each category must meet credit requirements.	Do not contribute ¹	INGREDIENTS AND EMISSIONS ¹ 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 note that the points identified above are linked with each of the credits where the product contributes as part of a LEED® v4 certification process. The product itself is only one element among others to reach the target score.

Garex doors 1 1/2" (44.5 mm) thick polyurethane-insulated with R-16 (RSI 2.81) thermal resistance promote the energy performance of the building envelope.

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