



ENVIRONMENTAL DATA SHEET



ACID-ETCHED MIRROR AND UNETCHED MIRROR

Walker Textures® Acid-etched Mirror

Acid-etched mirror gives a touch of sophistication with a slight reflection providing depth to the glass. Walker Textures® acid-etched mirrors include two different finishes offering completely different looks. The acid-etched mirrors are also available using different glass color substrates.

The frosted appearance of the Opaque finish is characterized by its less polished surface and much lower reflection. The Satin finish is characterized by a highly polished surface and reduced reflection.

Unetched Mirror

The high quality Walker mirror is perfect to enhance interior decor. It acquires and reflects surrounding light and magnifies the size of residential or commercial spaces. It adds value to the design and decor.

VALIDATED ECO-DECLARATION

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PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS	TECHNICAL PERFORMANCES
References Walker Textures® acid-etched mirror in two finishes: Opaque and Satin. Unetched mirror.	Life Cycle Assessment Oct. 2017 Product's carbon footprint Oct. 2017 Environmental Product Declaration Product-specific EPD, Type III ISO 14025:2006 Oct. 2017 - Oct. 2022	Performance tests ASTM C1036-16, ASTM C1503/1502, ASTM C501, ASTM C1378, MOHs
Final manufacturing location Montreal, QC H1J 1L5 CANADA	INGREDIENTS AND EMISSIONS	Expected life -
Composition Glass, top coat, base coat, silvering.	Declaration of chemical ingredients 1,000 ppm	MANUFACTURER'S ENVIRONMENTAL MANAGEMENT
ATTRIBUTES	Type of declaration HPD® version 2.1 Health Product Declaration®	ISO 14001 Certification -
Recycled content Pre-consumer: 0% Post-consumer: 0%	Emission test -	Extended Producer Responsibility (Take Back Program) -
Sourcing of raw materials Data collection from suppliers has been conducted for 100% of product components.	VOCs (Factory-applied paints) 350 g/L - 387.5 g/L	Corporate Sustainability Report (CSR: GRI, ISO 26000, BNQ 21000 or others) -
FSC® Certification -	Formaldehyde -	CERTIFICATIONS AND CONFORMITIES
Rapidly renewable materials -	Others -	
Biobased materials -		

Walker Glass Company Ltd. is a dynamic market-driven enterprise with over 75 years of experience in the glass and mirror industry in North America. Since 2002, Walker has been a leader in the production of acid-etched glass and mirror; it offers a multitude of product lines that respond to today's demanding market needs. Innovation and creativity are at the heart of its development.

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www.walkerglass.com

MasterFormat®: 08 83 00
08 85 00

Validated Eco-Declaration:
VED17-1079-02

Original issue date: **2017/10**

Period of validity:

2018/11 to 2019/11



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Walker Textures® Acid-etched Mirror

Models

Finishes: Opaque and Satin

Surface: On one face only

Thicknesses: 3 mm to 6 mm, subject to glass availability

Substrates: Clear, bronze, grey, black, blue or ultra-clear

Dimensions

Length: 130 inches

Height: 96 inches

Other dimensions are available on demand

Characteristics

- Unique visual effect adds depth to the glass;
- Light absorption;
- Cleaning and maintenance similar to unetched mirror;
- For interior use only.

Unetched Mirror

Models

Thicknesses: 3 mm to 6 mm, subject to glass availability

Substrates: Clear, bronze, grey, black, blue or ultra-clear

Dimensions

Depending on the substrate and finish

Length: Maximum of 144 inches

Height: Maximum of 100 inches

Characteristics

- Acquires and reflects surrounding light;
- Magnifies the size of spaces;
- Ease of maintenance;
- For interior use only.

ATTRIBUTES

RECYCLED CONTENT

Final product	Weight ratio	Pre-consumer	Post-consumer
Walker Textures® Acid-etched Mirror	100%	0%	0%
Unetched Mirror	100%	0%	0%

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.

SOURCING OF RAW MATERIALS

Weight ratio	Final manufacturing location
100%	Montreal, QC H1J 1L5 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	Supplier locations	Extraction locations	Transportation from suppliers
Glass	97.5% - 98.6%	United States (PA, NC)	N/A	Road
Top coat	0.7% - 1.2%	Italy, Turkey	N/A	Road, boat
Base coat	0.7% - 1.2%	Italy, Turkey	N/A	Road, boat
Silvering	< 0.1%	North America, Europe	N/A	Road, boat

The origin and extraction locations of raw materials used in manufacturing Walker Textures® acid-etched glass have not been documented.

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 omissions relative to the collection, compilation and/or interpretation of data.

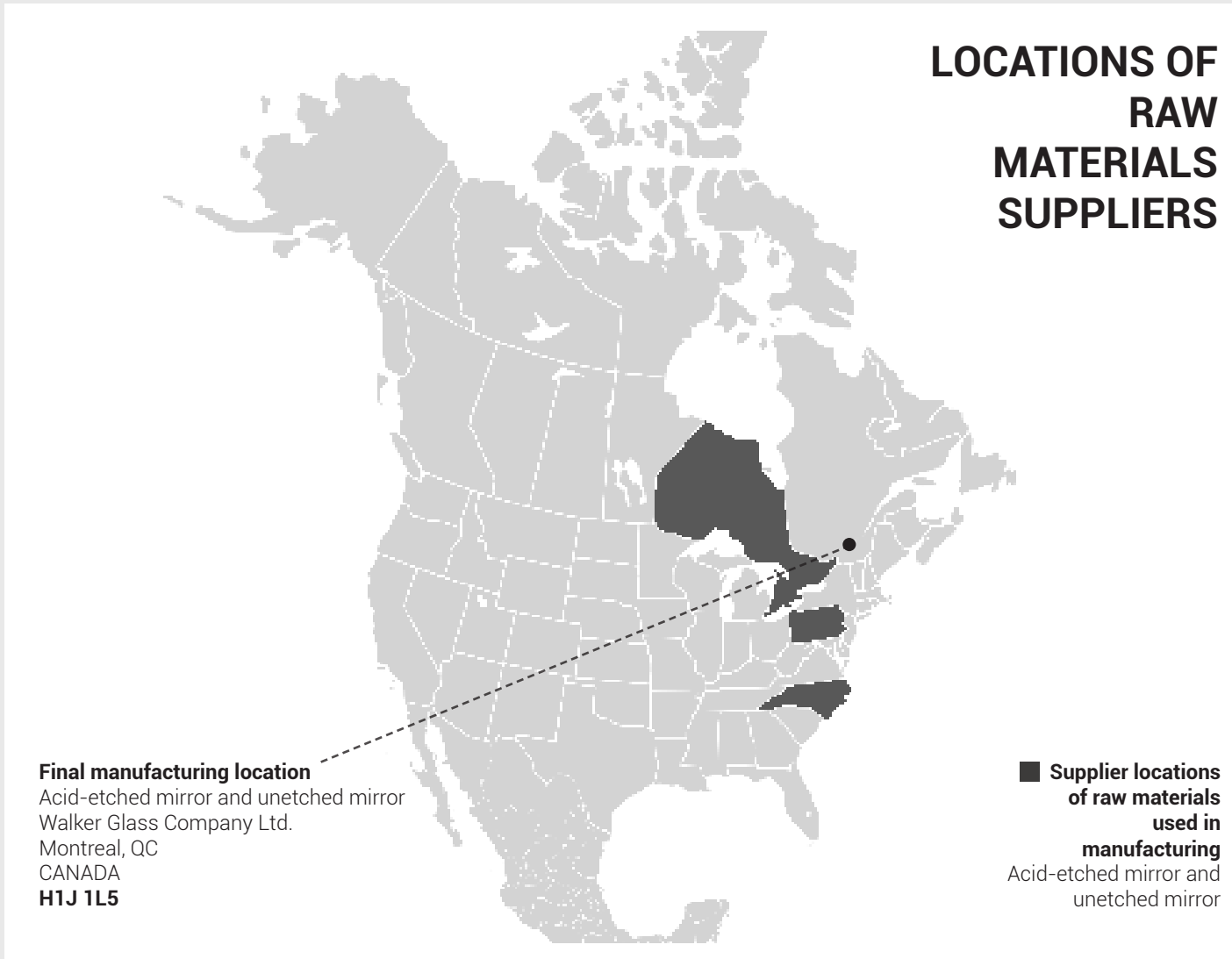
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ATTRIBUTES (CONTINUED)

SOURCING OF RAW MATERIALS (CONTINUED)



Data collection from suppliers has been conducted for 100% of Walker Textures® acid-etched mirror and unetched mirror components.

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ENVIRONMENTAL IMPACTS

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

Product-specific EPD, ISO 14025:2006, Type III

Walker Textures® acid-etched mirror and unetched mirror have EPDs that were prepared by Vertima. CSA Group is the program operator. The life cycle assessment, verified by the third party Athena Sustainable Materials Institute and on which is based these EPDs, has been done by Vertima.

Reference PCR

UL Environment (2016). PCR Guidance for Building-Related Products and Services. Part B: Processed Glass EPD Requirements. Version 1.0. 14 pp.

Declared Unit	Scope of the LCA	Reference service life	Period of validity
1 m ² of processed glass	Cradle-to-gate	N/A	October 2017 to October 2022

Table of environmental impacts for 1 m² of Walker Textures® acid-etched mirror and unetched mirror.

Impact categories	Unit	Results for Walker Textures® Acid-etched Mirror	Results for Unetched Mirror
Global warming potential	kg CO ₂ eq	17.3	12.7
Acidification potential	kg SO ₂ eq	0.167	0.129
Eutrophization potential	Kg N eq	0.0301	0.0153
Smog creation potential	kg O ₃ eq	3.73	3.16
Ozone depletion potential	kg CFC-11 eq	1.44.10 ⁻⁶	8.14.10 ⁻⁷
Consumption of total primary energy	Unit	Results for Walker Textures® Acid-etched Mirror	Results for Unetched Mirror
Non-renewable fossil	MJ, LHV	367	295
Non-renewable nuclear	MJ, LHV	19.1	15.1

Type III Environmental Product Declaration developed in accordance with ISO 14025:2006

Source: EPD report

These results are specific to Walker Textures® acid-etched mirror with Opaque and Satin finishes and unetched mirror.

Validated Eco-Declaration – Environmental Product Declaration (EPD)

Methodology: validation of documents and methodology surrounding the product LCA report and EPD.

Vertima's procedure: VERT-032010-03, Second Edition.

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INGREDIENTS AND EMISSIONS

DECLARATION OF CHEMICAL INGREDIENTS



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

Period of validity: September 13, 2017 to September 13, 2020

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

Health Product Declaration® URL: <http://www.hpd-collaborative.org/hpd-public-repository/>

This HPD has been prepared for Walker Textures® acid-etched mirror only.

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

Hazards 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

■ 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

¹Please refer 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).

This HPD has been prepared for Walker Textures® acid-etched mirror only.

TABLE OF INGREDIENTS

Name	Role	Weight ratio	CAS ¹	GreenScreen® ²	Note(s) (for more details refer to the HPD®)
Glass	Substrate	97.5% - 98.6%	N/A	LT-1	LT-P1, LT-UNK, BM-2 scores also present
Top coat	Protective paint	0.7% - 1.2%	14807-96-6 1330-20-7 1314-13-2	BM-1	LT-1, LT-UNK, BM-2 scores also present
Base coat	Protective paint	0.7% - 1.2%	14807-96-6 1330-20-7	BM-1	LT-1, LT-UNK, BM-2 scores also present
Silvering	-	< 0.1%	7761-88-8 7758-99-8 7772-99-8	LT-P1	BM-2 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)

Paints are applied during mirror manufacturing. For the product category presented below, values refer to the VOC content of paints in their liquid state.

PAINTS			
Manufacturers	Type	Products	VOC content
Fenzi S.p.A or PPG Industries	Protective paint	Top coat	350 g/L - 387.5 g/L
Fenzi S.p.A or PPG Industries	Protective paint	Base coat	350 g/L - 387.5 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

PERFORMANCE TESTS

Non-exhaustive list. Refer to the technical documentation of Walker Textures® acid-etched mirror and unetched mirror for more details.

- ASTM C1036-16 - Standard Specification for Flat Glass
- ASTM C1503/1502 - Silvered Flat Glass Mirror
- ASTM-C501 - Resistance to Wear
- ASTM-C1378 - Resistance to Staining
- MOHs - Scratch Hardness

TECHNICAL PERFORMANCES (CONTINUED)

WARRANTY



Limited Warranty on Acid-etched Surface Degradation

Walker Glass Company Ltd. warrants, for a period of 10 years following the date of original purchase, that the etched surface will not degrade, provided that the surface is not subjected to any conditions that would otherwise lead to premature degradation of unetched flat glass.

Limited Warranty for Unetched Mirror

During a period of 10 years from the date of original purchase, Walker Glass Company Ltd. warrants all mirror manufactured by Walker not to contain defects in the silver film which substantively affect the mirror's appearance.

For more information on Walker's warranties, please contact the customer service department.

Source: Walker Glass Company Ltd.

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MANUFACTURER'S ENVIRONMENTAL MANAGEMENT PROGRAM

MANUFACTURER'S COMMITMENT

Walker Glass Company Ltd. is fully committed to the diligent protection of both the environment and the health and safety of its workers and its customers' workers.

Our manufacturing process includes state-of-the-art environmental control equipment and our workers are equipped with the highest quality personal protection gear.

Our research and development process strives to create architectural products that have a sustainable impact on buildings and its occupants.

Source: Walker Glass Company Ltd.



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PRODUCT CONTRIBUTION SUMMARY

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

New Construction, 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 – Environmental Product Declaration (EPD) Option 1: Environmental Product Declaration (1 point) Walker Textures® acid-etched mirror and unetched mirror contribute to this credit due to the availability of a product-specific EPD (Type III) and are both valued as 1 whole product out of the 20 needed for the purposes of credit achievement calculation.	Contribute	ENVIRONMENTAL IMPACTS
			Product-specific EPD (Type III) compliant to ISO 14025:2006.
MR	Building Product Disclosure and Optimization – Material Ingredients Option 1: Material ingredients reporting (1 point) Walker Textures® acid-etched mirror 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. Do not apply to unetched mirror.	Contribute	INGREDIENTS AND EMISSIONS
			HPD® version 2.1 Health Product Declaration® (Walker Textures® acid-etched mirror only)
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	Low-Emitting Materials Option 1: Product category calculation (1-3 points) For the product category, walls, thermal and acoustical insulation, 100% of all products must meet the requirements.	Contribute	INGREDIENTS AND EMISSIONS
			Mirrors are excluded from the scope of this credit.

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 achieve LEED® credits.

OTHER ENVIRONMENTAL BENEFITS

- Use acid-etched mirror to control glare and absorb light to enhance the quality of naturally harvested light.
- Use unetched mirror to redirect naturally harvested light throughout the space to reduce the requirement for electric light.

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