



### ALUMINUM SIDING

Our aluminum siding replicates exclusive authentic textures of various materials from a high definition digital ink-jet printing process.

#### Models:

- 3" V Groove Panel
- 4" V Groove Panel
- 4" Flat Panel
- 6" V Groove Panel
- 6" Channel Panel
- 6" Flat Panel
- 8" Flat Panel

### VALIDATED ECO-DECLARATION

PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS	TECHNICAL PERFORMANCES
<b>Reference</b> 3" 8 h h t ..... 18 h h h t ..... 7 h h h 7 ..... 18 h h h t ..... # h h h # ..... 7 h h h 7 ..... 7 h h h 7 ..... 7 ..... (Quebec) G2C 1Y6 CANADA <b>Composition</b> .....	<b>Life Cycle Assessment</b> - <b>Product's carbon footprint</b> - <b>Environmental Product Declaration</b> - <b>INGREDIENTS AND EMISSIONS</b> <b>Declaration of chemical ingredients</b> - <b>Type of declaration</b> HPD® version 2.0® Health Product Declaration <b>Emission test</b> - <b>VOCs</b> 0 g/L - 29 g/L (Primer, inks and varnish factory applied) <b>Formaldehyde</b> - <b>Others</b> -	<b>Performance tests</b> Abrasion Resistance (ASTM D4060) Wind Load Resistance (ISO 7895) (ASTM E330) Impact Resistance (ISO 7895) Fading (ASTM G155) Graffiti Resistance (ASTM D6578) Burning Characteristics (ASTM E84   CAN/ULC-S102   CAN/ULC-S114-05/NFPA 285) Adhesion Testing (ASTM D3359) Florida Building Code (FBC) Compliance <b>Expected life</b> - <b>MANUFACTURER'S ENVIRONMENTAL MANAGEMENT</b> <b>Certification ISO 14001</b> - <b>Extended Producer Responsibility</b> (Take Back Program) - <b>Corporate Sustainability Reporting</b> (CSR : GRI, ISO 26000, BNQ 21000 or other) - <b>CERTIFICATIONS AND CONFORMITY REPORTS</b>
ATTRIBUTES		
<b>Recycled content</b> Pre-consumer: 3.0% Post-consumer: 9.9% - 10.0% <b>Sourcing of raw materials</b> The extraction location has been documented for 13.0% of raw materials used in manufacturing the final product, based on a weight ratio. <b>FSC Certification®</b> - <b>Rapidly renewable materials</b> - <b>Biobased materials</b> -		

DiZal is a manufacturing company specialized in design, production and marketing of new high-end models of aluminum siding. Our technology replicates exclusive authentic textures of various materials from a high definition digital ink-jet printing process.

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 Period of validity: 201 /09 to 201 /09



# ENVIRONMENTAL DATA SHEET

## ALUMINUM SIDING

**D I Z A L**

DIGITALLY PRINTED ALUMINUM SIDING



### Models:

3" V Groove / 4" V Groove or Flat / 6" V Groove, Channel or Flat / 8" Flat

### Dimensions:

Length: 16' (4.88 m)

Height: 3" (7.2cm), 4" (10.16 cm), 6" (15.24 cm), 8" (20.32 cm)

### Characteristics:

High definition digital ink-jet printing

Protective coating against UV and discoloration Horizontal and vertical

installation / Maintenance free Wide choice of colors and textures / Finishing accessories

## ATTRIBUTES

### RECYCLED CONTENT

Final products	Weight ratio	Pre-consumer	Post-consumer
Printed panels 3", 4", 6" or 8"	100%	3.0%	9.9%
Printed accessories	100%	3.0%	9.9%
Unprinted accessories	100%	3.0%	10.0%

Component (with recycled content)	Weight ratio	Pre-consumer	Post-consumer
Aluminum	99% - 100%	3.0%	10.0%

Accessories of 12' (3.66 m) in length have been assessed. Printed accessories available with a matching finish are: Starter Strip, Base, Short Cap, Long Cap, Double Cap and Outside Corner Base. Unprinted accessories without a finish are: Double Base and Outside Corner Cap.

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%	Quebec, Quebec G2C 1Y6 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.

Components	Weight ratio	Extraction locations	Transportation
Aluminum (recycled)	13.0%*	Toronto	Camion
Aluminum	86.0%	N/D	N/D
Primer	0.3%	N/D	N/D
Inks	0.3%	N/D	N/D
Varnish	0.3%	N/D	N/D

\*The extraction locations have been documented for 13.0% of materials of each components on the final product, based on their weight ratio.

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Validated Eco-Declaration:

**EDV16-0930-01**

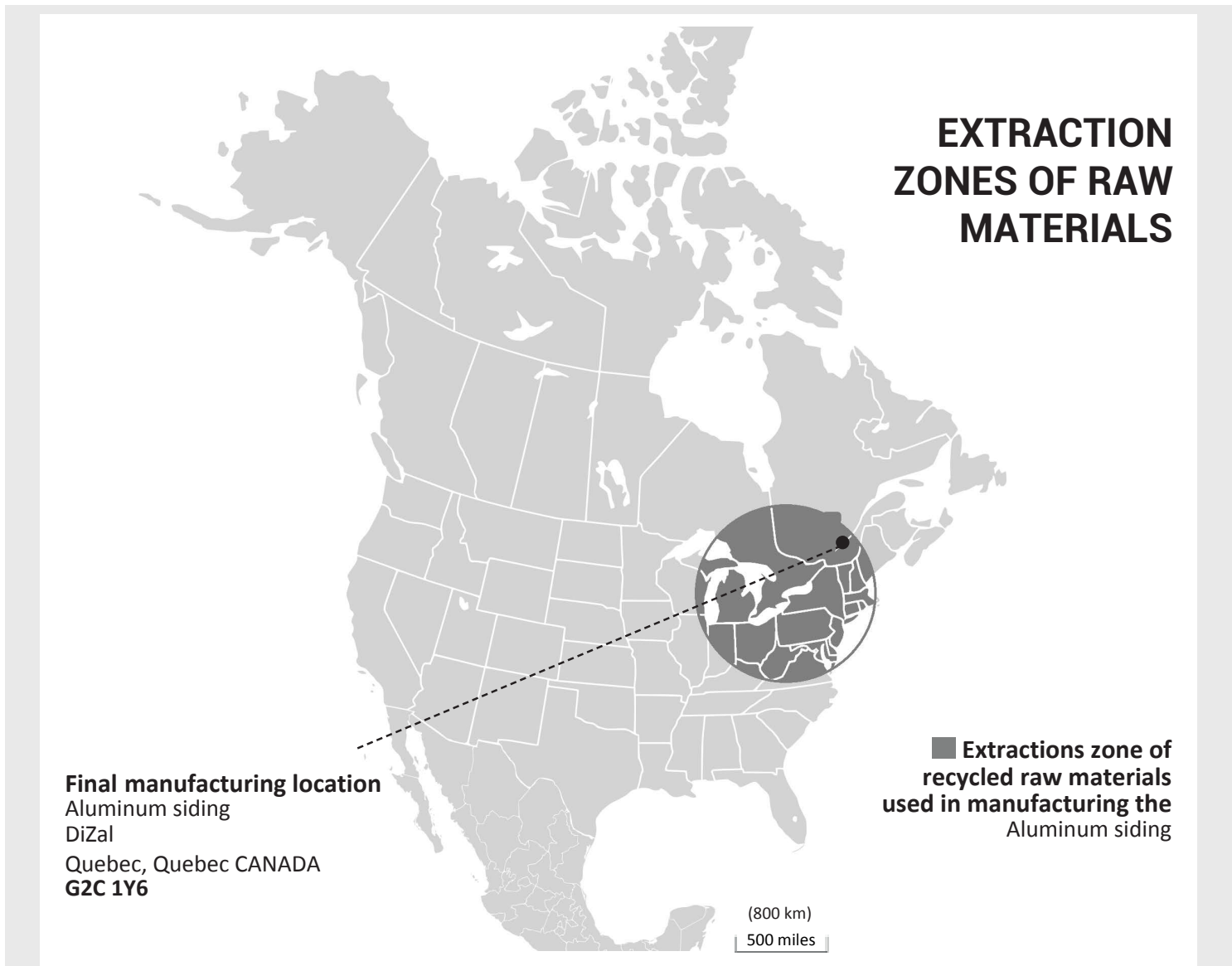
Period of validity:

**2018/09 to 2019/09**



ATTRIBUTES (CONTINUED)

SOURCING OF RAW MATERIALS (CONTINUED)



1. EXTRACTION LOCATIONS OF RECYCLED ALUMINUM

Pre-consumer recycled content:  
Canada: Toronto (Ontario), Becancour and Jonquiere (Quebec)

Post-consumer recycled content:  
Canada: Toronto (Ontario) (Within a 500 miles (800 km) radius from Toronto mill)



## INGREDIENTS AND EMISSIONS

### DECLARATION OF CHEMICAL INGREDIENTS



**Type of declaration:** Health Product Declaration® (HPD®) version 2.0

**Period of validity:** September 27, 2016 to September 27, 2019

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists<sup>1</sup> and the GreenScreen for Safer Chemicals®<sup>2</sup>.

**Health Product Declaration® URL:** Available shortly

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

**Declaration:** ☒ Self-declared ☐ Third Party

**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: List Translator Benchmark 1<sup>3</sup>

- ☒ PBT (persistent, bioaccumulative and toxic)
- ☒ Cancer
- ☒ Gene Mutation
- ☒ Development
- ☒ Reproductive
- ☒ Endocrine

- ☐ Respiratory
- ☐ Neurotoxicity
- ☒ Mammal
- ☒ Skin
- ☒ Eye
- ☒ Aquatic toxicity

- ☐ Land toxicity
- ☒ Physical hazard
- ☐ Global warning
- ☐ Ozone depletion
- ☒ Multiple
- ☐ Unknown

<sup>1</sup>Please refer to Annex D of HPD Open Standard Version 2.0, September 10th 2015. <http://www.hpd-collaborative.org>

<sup>2</sup>GreenScreen Method: <http://www.greenscreenchemicals.org/>

<sup>3</sup>GreenScreen(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

Name	Role	# CAS <sup>1</sup>	Weight ratio	GreenScreen® <sup>2</sup>	Note (s) (for more details refer to the HPD®)
Aluminum	Main component (substrate)	7439-92-1 7440-43-9	99.0%	LT-1	UNK benchmark also present
Primer	Finishing: preparation layer	108-88-3 13463-67-7 1330-20-7 7631-86-9	0.33%	BM-1	LT-1, LT-P1, BM-2 and LT-UNK benchmarks also present
Inks	Finishing: decorative layer	Undisclosed (3) 142-16-5	0.33%	LT-P1	LT-UNK and UNK benchmarks also present
Varnish	Finishing: protection layer	13048-33-4	0.33%	LT-P1	LT-UNK benchmarks also present

<sup>1</sup>Only the CAS numbers with the score of highest concern are listed.

<sup>2</sup>GS 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 hazard 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)

All adhesives and finishes are applied during the manufacturing of Dizal 's Aluminum siding. In each category of products presented below, the values refer to the VOC content of adhesives and finishes in their liquid state.

FINISH		
Manufacturer	Type	VOC content g/L
Supplier 1	Primer	29 g/L
Supplier 2	Inks	0 g/L
Supplier 3	Vernis UV	16.7 g/L

Validated Eco-Declaration—Emissions and VOCs  
Methodology: validation of the documents attesting the methodology and results of emissions general evaluation and VOCs.  
Vertima's procedure: VERT-032009-02, Second Edition.

TECHNICAL PERFORMANCES

PERFORMANCE TESTS

Non-exhaustive list

- Abrasion Resistance (ASTM D4060);
- Wind Load Resistance (ISO 7895);
- Impact Resistance (ISO 7895);
- Fading (ASTM G155);
- Graffiti Resistance (ASTM D6578);
- Burning Characteristics (ASTM E84 - CAN/ULC-S102 | CAN/ULC-S114-05/NFPA 285);
- Adhesion Testing (ASTM D339);
- Florida Building Code (FBC) Compliance.

EXPECTED LIFE

WARRANTY

DiZal manufactures siding products and accessories designed with high quality materials and certifies efficiency and exceptional durability of its products.

Our Limited Lifetime Warranty covers defects in materials or manufacturing that may cause warping, rust and corrosion, checking, cracking and excessive discoloration if and only if our products are installed according to the instructions and recommendations of the company.\*

\* Refer to our complete warranty terms and conditions.

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### PRODUCT CONTRIBUTION SUMMARY

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

New Construction, Core 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		POINTS	PRODUCT CONTRIBUTION
MR	<b>Building Product Disclosure and Optimization</b> — Sourcing of Raw Materials Option 2: Leadership extraction practices May also contribute to the location valuation factor if the product is sourced (extracted, manufactured, purchased) within 100 miles (160 km) around the project site.	1 point	ATTRIBUTES
			Recycled content Pre-consumer (3.0%) Post-consumer (9.9% - 10.0%)
MR	<b>Building Product Disclosure and Optimization</b> — Material Ingredients Option 1: Material ingredients reporting	1 point	INGREDIENTS AND EMISSIONS
			HPD® version 2.0 Health Product Declaration®
INDOOR ENVIRONMENTAL QUALITY		POINTS	PRODUCT CONTRIBUTION
EQ	<b>Low-Emitting Materials</b> Option 1: Product category calculation	Do not contribute <sup>1</sup>	INGREDIENTS AND EMISSIONS
			<sup>1</sup> The product has not been tested in a laboratory in accordance with the California Department of Public Health (CDPH) Standard Method v1.1–2010

#### LEED® v4 requirements for Homes

Applies to single family homes, low-rise multi-family (one to three stories), or mid-rise multi-family (four to six stories); includes Homes and Multifamily Lowrise and Multifamily Midrise.

MATERIALS AND RESOURCES		POINTS	PRODUCT CONTRIBUTION
MR Credit 2	<b>Environmentally Preferable Products</b> Option 2: Environmentally Preferable Products <sup>2</sup> At least 90% of all materials in each category must meet credit requirements. DiZal's Aluminum siding contributes to 0.5 point for Recycled Content.	0.5 point <sup>2</sup>	ATTRIBUTES
			Recycled content Pre-consumer (3.0%) Post-consumer (9.9% - 10.0%)
INDOOR ENVIRONMENTAL QUALITY		POINTS	PRODUCT CONTRIBUTION
EQ Credit 7	<b>Low-Emitting Products</b> <sup>3</sup> At least 90% of all materials in each category must meet credit requirements.	Do not contribute <sup>3</sup>	INGREDIENTS AND EMISSIONS
			<sup>3</sup> The product has not been tested in a laboratory in accordance with the California Department of Public Health (CDPH) Standard Method v1.1–2010

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.

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