August 2019

RE: Sustainability Statement

Babcock-Davis certifies and provides the following information for use in achieving LEED v4 credit for the specification of Babcock-Davis Access Doors and Panels.

Products: ThermalMAX™ Roof Hatch
Model(s): BRHTA

Manufacturing Info
- Final Assembly Location: Brooklyn Park, MN
- Extraction point is not within 500 miles of manufacturing

LEED Credit Options:

Product Disclosure and Optimization – Material Ingredients
- Option 1. Material Ingredient Reporting (1 point) Use at least 20 different permanently installed products from at least five different manufacturers that use any of the following programs to demonstrate the chemical inventory of the product to at least 0.1% (1000 ppm). (10 different permanently installed products from at least three different manufacturers for CS and Warehouses & Distribution Centers)
  - Health Product Declaration. The end use product has a published and complete Health Product Declaration with full disclosure of known hazards in compliance with the Health Product Declaration open Standard.

If you require any further information, please do not hesitate to contact us at (888) 312-3726.
Thermally Broken Roof Hatch
by Babcock-Davis

CLASSIFICATION: 07 72 33 Thermal and Moisture Protection: Roof Hatches

PRODUCT DESCRIPTION: Roof Hatches provide safe and convenient access to commercial building roof areas using interior ladders and stairs. Babcock-Davis’ complete line of Roof Hatch and Safety products meet building codes, fire and life safety requirements. The ThermalMAX Roof Hatch sets the new standard for thermally efficient roof hatches. Designed with a thermal break to keep cool-cool and hot-hot, this hatch boasts an R-20 insulation rating making it today's most energy efficient hatch. Condensation typically occurs on inside surfaces or roof hatches whenever the exterior surface temperature falls below the dew point temperature of the interior space. The thermal break provides a barrier between heat and cold reducing the potential for condensation. This HPD covers Babcock-Davis' ThermalMAX Roof Hatch (BRHTA).

Section 1: Summary

CONTENT INVENTORY

<table>
<thead>
<tr>
<th>Inventory Reporting Format</th>
<th>Threshold level</th>
<th>Residuals/Impurities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nested Materials Method</td>
<td>100 ppm</td>
<td>Considered</td>
</tr>
<tr>
<td>Basic Method</td>
<td>1,000 ppm</td>
<td>Not Considered</td>
</tr>
<tr>
<td>Threshold Disclosed Per</td>
<td>Per GHS SDS</td>
<td>Partially Considered</td>
</tr>
<tr>
<td>Material</td>
<td>Per OSHA MSDS</td>
<td></td>
</tr>
<tr>
<td>Product</td>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

All Substances Above the Threshold Indicated Are:

- Characterized: Yes Ex/SC Yes No
- Residuals/Impurities: Yes No

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>SUBSTANCE</th>
<th>RESIDUAL OR IMPURITY</th>
<th>GREENSCREEN SCORE</th>
<th>HAZARD TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>THERMALLY BROKEN ROOF HATCH</td>
<td>6061 ALUMINUM</td>
<td>LT-P1</td>
<td>RES</td>
<td>PHY</td>
</tr>
<tr>
<td></td>
<td>CONTINUOUS FILAMENT GLASS FIBER</td>
<td>NON-RESPIRABLE LT-UNK</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CELLULOSE PULP</td>
<td>NoGS LIMESTONE, CALCIUM CARBONATE LT-UNK</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BUTYL RUBBER</td>
<td>LT-UNK KAOLIN CLAY LT-UNK CAN CARBON BLACK LT-1 CAN POLYVINYL CHLORIDE (PVC) LT-P1 RES ANOX 20 LT-UNK</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DISTILLATES (PETROLEUM), SOLVENT-REFINED (MILD) HEAVY PARAFFINIC (9CI) LT-1 CAN MUL ZINC LT-P1 AQU PHY END MUL PENTANE LT-P1 AQU PHY MAM MUL ]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

VOC emissions: CDPH Standard Method - Not tested

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified? Yes No
PREPARER: Self-Prepared
VERIFIER: 
VERIFICATION #: 
SCREENING DATE: 2019-07-16
PUBLISHED DATE: 2019-08-19
EXPIRY DATE: 2022-07-16
## Thermally Broken Roof Hatch

**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES NOTES:** Residuals and Impurities were considered by following the suggestions of Emerging Best Practices. More than 85% of this product consists of metal alloys, for which Pharos CML may consider the various alloying elements as "Known or Potential Residuals". Therefore, these components have been included in the Substance Notes instead of as individual content entries. Components are listed by name, CASRN, percent by weight (as per supplier SDS), and relevant GreenScreen score.

**OTHER PRODUCT NOTES:** Percent by weight of substances given as ranges to account for variations in product manufacturing, and due to disclosure preference of suppliers.

### 6061 Aluminum

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD:</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE:</th>
<th>2019-07-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 80.00 - 82.00</td>
<td>GS: LT-P1</td>
<td>RC: Both</td>
<td>NANO: No</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td></td>
</tr>
<tr>
<td>RESPIRATORY</td>
<td>AOEC - Asthmagens</td>
<td>Asthmagen (Rs) - sensitizer-induced</td>
<td></td>
</tr>
<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements)</td>
<td>H228 - Flammable solid</td>
<td></td>
</tr>
<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements)</td>
<td>H250 - Catches fire spontaneously if exposed to air</td>
<td></td>
</tr>
<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements)</td>
<td>H261 - In contact with water releases flammable gases</td>
<td></td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Recycled content confirmed by supplier to range from 5% to 60%, with 35% average recycled content. Documentation from supplier provides the following composition for alloying elements that may individually exceed the declared threshold: Max 2.8% Zinc [7440-66-6; LT-P1]; Max 2.0% Manganese [7439-96-5; LT-P1]; Max 1.9% Silicon [7440-21-3; LT-UNK]; Max 1.6% Magnesium [7439-95-4; LT-UNK]; Max 1.1% Iron [7439-89-6; LT-P1]; Max 0.5% Chromium [7440-47-3; LT-P1]. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Aluminum.

### Steel

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD:</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE:</th>
<th>2019-07-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 6.50 - 6.60</td>
<td>GS: NoGS</td>
<td>RC: UNK</td>
<td>NANO: No</td>
</tr>
</tbody>
</table>

Thermally Broken Roof Hatch

hpdrepository.hpd-collaborative.org

HPD v2.1.1 created via HPDC Builder Page 3 of 10
<table>
<thead>
<tr>
<th>Substance Notes</th>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
<tr>
<td>Various mixed hardware/fasteners. Documentation from supplier provides the following composition for alloying elements that may individually exceed the declared threshold: max 3.1% Silicon [7440-21-3; LT-UNK]; max 2.5% Manganese [7439-96-5; LT-P1]; max 1.6% Aluminum [7429-90-5; LT-P1]; max 1.8% Nickel [7440-02-0; LT-1]; max 1.0% Chromium [7440-47-3; LT-P1]; max 0.2% Vanadium [7440-62-2; LT-1].</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**POLYISOCYANURATE FOAM**

<table>
<thead>
<tr>
<th>Substances: Foam insulation.</th>
</tr>
</thead>
</table>

**ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM)**

<table>
<thead>
<tr>
<th>Substances: Rubber curb; rubber washer; gasket.</th>
</tr>
</thead>
</table>

**CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE**

<table>
<thead>
<tr>
<th>Substances: Foam insulation.</th>
</tr>
</thead>
</table>

**CELLULOSE PULP**

<table>
<thead>
<tr>
<th>Substances:</th>
</tr>
</thead>
</table>
### LIMESTONE, CALCIUM CARBONATE

**ID:** 1317-65-3

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD SCREENING DATE</td>
<td>2019-07-16</td>
</tr>
</tbody>
</table>

- **%:** 0.10 - 1.00
- **GS:** LT-UNK
- **RC:** None
- **NANO:** No
- **ROLE:** Filler, Extender

**WARNINGS:** None found

**SUBSTANCE NOTES:** Foam insulation. Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern).

### BUTYL RUBBER

**ID:** 9010-85-9

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD SCREENING DATE</td>
<td>2019-07-16</td>
</tr>
</tbody>
</table>

- **%:** 0.10 - 0.30
- **GS:** LT-UNK
- **RC:** None
- **NANO:** No
- **ROLE:** Base Polymer

**WARNINGS:** None found

**SUBSTANCE NOTES:** Sealant tape; red vinyl grip handle. Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern).

### KAOLIN CLAY

**ID:** 1332-58-7

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD SCREENING DATE</td>
<td>2019-07-16</td>
</tr>
</tbody>
</table>

- **%:** 0.10 - 0.30
- **GS:** LT-UNK
- **RC:** None
- **NANO:** No
- **ROLE:** Filler, Extender

<table>
<thead>
<tr>
<th>CANCER</th>
<th>MAK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
</tbody>
</table>

**WARNINGS:** None found

**SUBSTANCE NOTES:** Sealant; gasket.

### CARBON BLACK

**ID:** 1333-86-4

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD SCREENING DATE</td>
<td>2019-07-16</td>
</tr>
</tbody>
</table>

- **%:** 0.10 - 0.40
- **GS:** LT-1
- **RC:** None
- **NANO:** No
- **ROLE:** Pigment

**WARNINGS:** None found

**SUBSTANCE NOTES:** Sealant; gasket.
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: Rubber curb; rubber washer; gasket; sealant tape. Carbon black is one of several compounds with warnings restricted to unbound/respirable forms.

**POLYVINYL CHLORIDE (PVC)**

ID: 9002-86-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-16

%: 0.05 - 0.10

GS: LT-P1

RC: None

NANO: No

ROLE: Base Polymer

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Red vinyl grip handle.

**ANOX 20**

ID: 6683-19-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-16

%: 0.05 - 0.20

GS: LT-UNK

RC: None

NANO: No

ROLE: Antioxidant

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Sealant tape. Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern).

**DISTILLATES (PETROLEUM), SOLVENT-REFINED (MILD) HEAVY PARAFFINIC (9CI)**

ID: 64741-88-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-16

%: 0.01 - 0.10

GS: LT-1

RC: None

NANO: No

ROLE: Raw Material
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>EU - GHS (H-Statements)</td>
<td>H350 - May cause cancer</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - REACH Annex XVII CMRs</td>
<td>Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>ChemSec - SIN List</td>
<td>CMR - Carcinogen, Mutagen &amp;/or Reproductive Toxicant</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - Annex VI CMRs</td>
<td>Carcinogen Category 1B - Presumed Carcinogen based on animal evidence</td>
</tr>
<tr>
<td>CANCER</td>
<td>Australia - GHS</td>
<td>H350 - May cause cancer</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Sealant tape; gasket.

### ZINC

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD:</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE:</th>
<th>2019-07-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>%:</td>
<td>0.01 - 0.10</td>
<td>GS: LT-P1</td>
<td>ROLE: Metallic Coating</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td></td>
</tr>
<tr>
<td>ACUTE AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H400 - Very toxic to aquatic life</td>
<td></td>
</tr>
<tr>
<td>CHRON AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H410 - Very toxic to aquatic life with long lasting effects</td>
<td></td>
</tr>
<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements)</td>
<td>H250 - Catches fire spontaneously if exposed to air</td>
<td></td>
</tr>
<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements)</td>
<td>H260 - In contact with water releases flammable gases which may ignite spontaneously</td>
<td></td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
<td></td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Zinc plated steel for various hardware/fasteners. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Zinc.

### PENTANE

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD:</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE:</th>
<th>2019-07-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>%:</td>
<td>Impurity/Residual</td>
<td>GS: LT-P1</td>
<td>ROLE: Impurity/Residual</td>
</tr>
<tr>
<td>RC:</td>
<td>None</td>
<td>NANO: No</td>
<td></td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>----------------------------------------</td>
<td>-----------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>CHRON AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H411 - Toxic to aquatic life with long lasting effects</td>
<td></td>
</tr>
<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements)</td>
<td>H225 - Highly flammable liquid and vapour</td>
<td></td>
</tr>
<tr>
<td>MAMMALIAN</td>
<td>EU - GHS (H-Statements)</td>
<td>H304 - May be fatal if swallowed and enters airways</td>
<td></td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Blowing agent for foam insulation.
## Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

<table>
<thead>
<tr>
<th>VOC EMISSIONS</th>
<th>CDPH Standard Method - Not tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY:</td>
<td>Self-declared</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>N/A</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-05-20</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td></td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

## Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

**SAFETY RAILING**


 CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

OSHA compliant Safety Railing for new and retrofit applications. The safety railing mounts to the existing roof hatch curb counter-flash without penetrating the membrane.

## Section 5: General Notes

Thermally Broken Roof Hatch
MANUFACTURER INFORMATION

MANUFACTURER: Babcock-Davis
ADDRESS: 9300 73rd Avenue North
Brooklyn Park MN 55428, USA
WEBSITE: www.babcockdavis.com

CONTACT NAME: Sandy McWilliams
TITLE: Director, Specification
PHONE: 888.412.3726
EMAIL: SMcWilliams@babcockdavis.com

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types
AQU Aquatic toxicity
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation

GLO Global warming
MAM Mammalian/systemic/toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists

GreenScreen (GS)
BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement)
BM-2 Benchmark 2 (use but search for safer substitutes)
BM-1 Benchmark 1 (avoid - chemical of high concern)
BM-U Benchmark Unspecified (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1
LT-1 List Translator Likely Benchmark 1
LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
NoGS Unknown (no data on List Translator Lists)

Recycled Types
PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms
Inventory Methods:
 Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
 Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
 Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.
Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format
- Nested Materials Method
- Basic Method

Threshold Disclosed Per
- Material
- Product

Threshold level
- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered
- No

All Substances Above the Threshold Indicated Are:

Characterized
- Yes Ex/SC
- Yes
- No

% weight and role provided for all substances.

Screened
- Yes Ex/SC
- Yes
- No

All substances screened using Priority Hazard Lists with results disclosed.

Identified
- Yes Ex/SC
- Yes
- No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/or one or more Special Condition did not follow guidance.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY | GREENSCREEN SCORE | HAZARD TYPE
--- | --- | --- | --- | ---
ALUMINUM SAFETY RAILING | 6061 ALUMINUM | RES | PHY | END
STEEL | NOGS | UNDISCLOSED | NOGS | TITANIUM DIOXIDE | LT-1 | CAN | END
ZINC | LT-P1 | AQU | PHY | END | MUL | SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES | LT-1 | CAN | MUL

Number of Greenscreen BM-4/BM3 contents ... 0
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1.1, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

VOC emissions: Inherently non-emitting source per LEED®

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2019-07-16
PUBLISHED DATE: 2019-08-19
EXPIRY DATE: 2022-07-16
This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

---

**ALUMINUM SAFETY RAILING**

**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES NOTES:** Residuals and Impurities were considered by following the suggestions of Emerging Best Practices. More than 99% of this product consists of metal alloys, for which Pharos CML may consider the various alloying elements as "Known or Potential Residuals". Therefore, these components have been included in the Substance Notes instead of as individual content entries. Components are listed by name, CASRN, percent by weight (as per supplier SDS), and relevant GreenScreen score.

**OTHER PRODUCT NOTES:** Percent by weight of substances given as ranges to account for material differences between product lines.

---

**6061 ALUMINUM**  
**ID:** 7429-90-5

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-07-16

<table>
<thead>
<tr>
<th>%:</th>
<th>57.50 - 60.00</th>
<th>GS:</th>
<th>LT-P1</th>
<th>RC:</th>
<th>Both</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE: Base Metal</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**

**RESPIRATORY**  
AOEC - Asthmagens  
Asthmagen (Rs) - sensitizer-induced

**PHYSICAL HAZARD (REACTIVE)**  
EU - GHS (H-Statements)  
H228 - Flammable solid

**PHYSICAL HAZARD (REACTIVE)**  
EU - GHS (H-Statements)  
H250 - Catches fire spontaneously if exposed to air

**PHYSICAL HAZARD (REACTIVE)**  
EU - GHS (H-Statements)  
H261 - In contact with water releases flammable gases

**ENDOCRINE**  
TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

**SUBSTANCE NOTES:** Rail; gate; post. Recycled content confirmed by suppliers to range from 5% to 80%, with an average recycled content of 35%. Documentation from suppliers provide the following composition for alloying elements that may individually exceed the declared threshold: <6.6% Magnesium [7439-95-4; LT-UNK]; <2.0% Silicon [7440-21-3; LT-UNK]; <1.8% Iron [7439-89-6; LT-P1]; <1.1% Chromium [7440-47-3; LT-P1]; <1.5% Copper [7440-50-8; LT-UNK]; <4.0% Zinc [7440-66-6; LT-P1]; <1.0% Manganese [7439-96-5; LT-P1]; <0.5% Vanadium [7440-62-2; LT-1]; 0.2% Titanium [7440-32-6; LT UNK]. May also include 5052 Aluminum for gate assembly. Specific guidelines are being created to address known issues related to transparency and disclosure for several material. ("Special Conditions"), including those with Form-Specific Hazards such as luminum.

---

**STEEL**  
**ID:** 12597-69-2

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-07-16

<table>
<thead>
<tr>
<th>%:</th>
<th>39.50 - 41.00</th>
<th>GS:</th>
<th>NoGS</th>
<th>RC:</th>
<th>Both</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE: Base Metal</th>
</tr>
</thead>
</table>

---
None found

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-07-16
%
0.50 - 1.50
GS: NoGS
RC: None
NANO: No
ROLE: Pigment Resin

None found

TITANIUM DIOXIDE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-07-16
%
0.10 - 0.30
GS: LT-1
RC: None
NANO: No
ROLE: Pigment

CANCER
US CDC - Occupational Carcinogens
Occupational Carcinogen

CANCER
CA EPA - Prop 65
Carcinogen - specific to chemical form or exposure route

CANCER
IARC
Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

ENDOCRINE
TEDX - Potential Endocrine Disruptors
Potential Endocrine Disruptor

CANCER
MAK
Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

CANCER
MAK
Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: Yellow powder coating.

ZINC

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-07-16
%
0.01 - 0.10
GS: LT-P1
RC: None
NANO: No
ROLE: Metallic Coating

SUBSTANCE NOTES: Yellow powder coating.
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACUTE AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H400 - Very toxic to aquatic life</td>
</tr>
<tr>
<td>CHRON AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H410 - Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements)</td>
<td>H250 - Catches fire spontaneously if exposed to air</td>
</tr>
<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements)</td>
<td>H260 - In contact with water releases flammable gases which may ignite spontaneously</td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Chain; mixed hardware.

**SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES**

**ID:** 64742-65-0

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-07-16</th>
</tr>
</thead>
</table>

**%:** Impurity/Residual  
**GS:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Impurity/Residual

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>EU - GHS (H-Statements)</td>
<td>H350 - May cause cancer</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - REACH Annex XVII CMRs</td>
<td>Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>ChemSec - SIN List</td>
<td>CMR - Carcinogen, Mutagen &amp;/or Reproductive Toxicant</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - Annex VI CMRs</td>
<td>Carcinogen Category 1B - Presumed Carcinogen based on animal evidence</td>
</tr>
<tr>
<td>CANCER</td>
<td>GHS - Australia</td>
<td>H350 - May cause cancer</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Potential residual from processing oil. May also include 64742-53-6 (LT-1; CAN | MUL).
Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Self-declared</th>
<th>ISSUE DATE:</th>
<th>2019-08-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
<td>EXPIRY DATE:</td>
<td>N/A</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
<td>CERTIFIER OR LAB:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: This product qualifies as an inherently non-emitting source per LEED, as ~99% of the product consists of powder-coated metal and/or plated or anodized metal. As per LEED, "Products that are inherently nonemitting sources of VOCs (stone, ceramic, powder-coated metals, plated or anodized metal, glass, concrete, clay brick, and unfinished or untreated solid wood) are considered fully compliant without any VOC emissions testing if they do not include integral organic-based surface coatings, binders, or sealants."

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes
# Section 6: References

## MANUFACTURER INFORMATION

**MANUFACTURER:** Babcock-Davis  
**ADDRESS:** 9300 73rd Avenue North  
Brooklyn Park MN 55428, USA  
**WEBSITE:** www.babcockdavis.com  
**CONTACT NAME:** Sandy McWilliams  
**TITLE:** Director, Specification  
**PHONE:** 888.412.3726  
**EMAIL:** SMcWilliams@babcockdavis.com

## KEY

<table>
<thead>
<tr>
<th>Hazard Types</th>
<th>GLO Global warming</th>
<th>PHY Physical Hazard (reactive)</th>
<th>CAN Cancer</th>
<th>MAM Mammalian/systemic/organ toxicity</th>
<th>REP Reproductive toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQU Aquatic toxicity</td>
<td></td>
<td></td>
<td>DEV Developmental toxicity</td>
<td>END Endocrine activity</td>
<td></td>
</tr>
<tr>
<td>EYE Eye irritation/corrosivity</td>
<td></td>
<td></td>
<td>GEN Gene mutation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN Gene mutation</td>
<td></td>
<td></td>
<td>MUL Multiple hazards</td>
<td>NEU Neurotoxicity</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OZO Ozone depletion</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PBT Persistent Bioaccumulative Toxic</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### GreenScreen (GS)

<table>
<thead>
<tr>
<th>BM-4 Benchmark 4 (prefer-safer chemical)</th>
<th>LT-P1 List Translator Possible Benchmark 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM-3 Benchmark 3 (use but still opportunity for improvement)</td>
<td>LT-1 List Translator Likely Benchmark 1</td>
</tr>
<tr>
<td>BM-2 Benchmark 2 (use but search for safer substitutes)</td>
<td>LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)</td>
</tr>
<tr>
<td>BM-1 Benchmark 1 (avoid - chemical of high concern)</td>
<td>NoGS Unknown (no data on List Translator Lists)</td>
</tr>
<tr>
<td>BM-U Benchmark Unspecified (insufficient data to benchmark)</td>
<td></td>
</tr>
</tbody>
</table>

### Recycled Types

- PreC Preconsumer (Post-Industrial)
- PostC Postconsumer
- Both Both Preconsumer and Postconsumer
- Unk Inclusion of recycled content is unknown
- None Does not include recycled content

### Other Terms

- **Inventory Methods:**
  - Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
  - Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
  - Basic Method / Product Threshold Substances listed individually per threshold indicated per product
- **Nano** Composed of nano scale particles or nanotechnology
- **Third Party Verified** Verification by independent certifier approved by HPDC
- **Preparer** Third party preparer, if not self-prepared by manufacturer
- **Applicable facilities** Manufacturing sites to which testing applies

---

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.