August 2019

RE: Sustainability Statement

Babcock-Davis certifies and provides the following information for use in achieving LEED v4 credit for the specification of Personnel and Hurricane Roof Hatches.

Products: Personnel Roof Hatch, Hurricane Roof Hatch
Model(s): BRHPA, BRHPB, BRHPG, BRHUA, BRHUB, BRHUG, BRHHA

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.
Personnel and Hurricane Roof Hatches by Babcock-Davis

CLASSIFICATION: 07 7200 Roof Accessories

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. Babcock-Davis’ Personnel Roof Hatch provides safe access to roof areas on your building. Sized for ladder, ship stair, and service stair access with optional safety railings, grab bars and a variety of materials and finishes. The Hurricane Hatch is tested for higher wind performance. This HPD covers the single door models BRHPA, BRHPB, BRHPG, BRHUA, BRHUB, BRHUG, BRHH with multiple insulation options.

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

All Substances Above the Threshold Indicated Are:
- Characterized: Yes Ex/SC Yes No
- Screened: Yes Ex/SC Yes No
- Identified: Yes Ex/SC 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 Chemicalsand 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.

INVENTORY AND SCREENING NOTES:
Special conditions applied: BiologicalMaterial

[VOC emissions: CPDH Standard Method - not tested]

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: CPDH Standard Method - not tested
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>☐ Yes</td>
<td>VERIFIER:</td>
<td>PUBLISHED DATE: 2019-10-01</td>
</tr>
<tr>
<td>☒ No</td>
<td>VERIFICATION #:</td>
<td>EXPIRY DATE: 2022-07-16</td>
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</table>

Personnel and Hurricane Roof Hatches

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**Section 2: Content in Descending Order of Quantity**

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](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

**PERSONNEL AND HURRICANE ROOF HATCHES**

**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 90% 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 lines.

**ASTM A228 STEEL**  
**ID:** 12597-69-2  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-07-16  
**%:** 92.00 - 96.00  
**GS:** NoGS  
**RC:** Both  
**NANO:** No  
**ROLE:** Base Metal  

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  
None found  
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Recycled content estimated by supplier for majority of steel used in product to be 19.8% post-consumer and 14.4% pre-consumer content. Documentation from supplier provides the following composition for alloying elements that may individually exceed the declared threshold: max 2.0% Manganese [7439-96-5; LT-P1]; max 1.0% Silicon [7440-21-3; LT-UNK]; max 1.0% Chromium [7440-47-3; LT-P1]; max 0.4% Nickel [7440-02-0; LT-1]; max 0.2% Vanadium [7440-62-2; LT-1].

**POLYISOCYANURATE FOAM**  
**ID:** 9063-78-9  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-07-16  
**%:** 0.50 - 4.60  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Insulation

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  
None found  
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Foam Insulation

**LIMESTONE, CALCIUM CARBONATE**  
**ID:** 1317-65-3
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-07-16

<table>
<thead>
<tr>
<th>%:</th>
<th>0.50 - 1.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS:</td>
<td>LT-UNK</td>
</tr>
<tr>
<td>RC:</td>
<td>None</td>
</tr>
<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>ROLE:</td>
<td>Filler</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

None found

**AGENCY AND LIST TITLES**

None found

**WARNINGS**

No warnings found on HPD Priority Hazard Lists

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

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**ZINC**

**ID:** 7440-66-6

<table>
<thead>
<tr>
<th>%:</th>
<th>0.50 - 2.00</th>
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</thead>
<tbody>
<tr>
<td>GS:</td>
<td>LT-P1</td>
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<tr>
<td>RC:</td>
<td>None</td>
</tr>
<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>ROLE:</td>
<td>Metallic Coating</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

| ACUTE AQUATIC |
| EU - GHS (H-Statements) |
| H400 - Very toxic to aquatic life |
| CHRON AQUATIC |
| EU - GHS (H-Statements) |
| H410 - Very toxic to aquatic life with long lasting effects |
| PHYSICAL HAZARD (REACTIVE) |
| EU - GHS (H-Statements) |
| H250 - Catches fire spontaneously if exposed to air |
| PHYSICAL HAZARD (REACTIVE) |
| EU - GHS (H-Statements) |
| H260 - In contact with water releases flammable gases which may ignite spontaneously |
| ENDOCRINE |
| TEDX - Potential Endocrine Disruptors |
| Potential Endocrine Disruptor |
| MULTIPLE |
| German FEA - Substances Hazardous to Waters |
| Class 2 - Hazard to Waters |

**SUBSTANCE NOTES:** Galvannealed steel door and frame, latch, hold open arm, mixed hardware.

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**UNDISCLOSED**

<table>
<thead>
<tr>
<th>%:</th>
<th>0.50 - 1.00</th>
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</thead>
<tbody>
<tr>
<td>GS:</td>
<td>NoGS</td>
</tr>
<tr>
<td>RC:</td>
<td>None</td>
</tr>
<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>ROLE:</td>
<td>Pigment Binder</td>
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</tbody>
</table>

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-07-16

<table>
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<tr>
<th>%:</th>
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<tbody>
<tr>
<td>GS:</td>
<td>LT-UNK</td>
</tr>
<tr>
<td>RC:</td>
<td>None</td>
</tr>
<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>ROLE:</td>
<td>Base Polymer</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

None found

**AGENCY AND LIST TITLES**

None found

**WARNINGS**

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Powder coating. Supplier has shared substance identity under the terms of a non-disclosure agreement; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Substance is not included on the Living Building Challenge (LBC) Red List Chemical Guide Version 3.1.

---

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

**ID:** 25038-36-2

<table>
<thead>
<tr>
<th>%:</th>
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<tbody>
<tr>
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<td>LT-UNK</td>
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<td>RC:</td>
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</tr>
<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>ROLE:</td>
<td>Base Polymer</td>
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</tbody>
</table>

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-07-16

**HAZARD TYPE**

None found

**AGENCY AND LIST TITLES**

None found

**WARNINGS**

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Powder coating. Supplier has shared substance identity under the terms of a non-disclosure agreement; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Substance is not included on the Living Building Challenge (LBC) Red List Chemical Guide Version 3.1.
### CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

**ID:** 65997-17-3  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-07-16  
**%:** 0.10 - 0.30  
**GS:** LT-UNK  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Facer

**WARNINGS**
- None found
- No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Continuous gasket seal.

### TITANIUM DIOXIDE

**ID:** 13463-67-7  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-07-16  
**%:** 0.10 - 0.50  
**GS:** LT-1  
**GS:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Pigment

**WARNINGS**
- 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:** Powder coating. Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Form specific hazards: airborne particles of respirable size – occupational setting.

### SC:CELLULOSE

**ID:** SC:Bio  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-07-16  
**%:** 0.10 - 1.00  
**GS:** Not Screened  
**GS:** Not Screened  
**RC:** None  
**NANO:** No  
**ROLE:** Substrate

**WARNINGS**
- Hazard Screening not performed

**Hazard Screening not performed**
This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

Facer for polyisocyanurate insulation. Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern).

304 STAINLESS STEEL

<table>
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<tr>
<th>HAZARD SCREENING METHOD</th>
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<tr>
<td>%: 0.01 - 0.10</td>
<td>GS: NoGS</td>
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<td>RC: Both</td>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Base Metal</td>
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</tr>
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</table>

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Hardware. This substance is considered essentially inert for the purposes of Pharos toxics scoring (Pharos CML).

CARBON BLACK

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
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<tbody>
<tr>
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<td>2019-07-16</td>
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<td>GS: LT-1</td>
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<td>RC: None</td>
<td>NANO: No</td>
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<tr>
<td>ROLE: Pigment</td>
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</table>

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

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Continuous gasket seal, foam insulation. Form-specific hazards: airborne particles of respirable size – occupational setting.

PENTANE

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
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<tbody>
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<td>HAZARD SCREENING DATE</td>
<td>2019-07-16</td>
</tr>
<tr>
<td>%: Impurity/Residual</td>
<td>GS: LT-P1</td>
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<tr>
<td>RC: None</td>
<td>NANO: No</td>
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<tr>
<td>ROLE: Impurity/Residual</td>
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</table>

Personnel and Hurricane Roof Hatches
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### Polystyrene

**ID:** 9003-53-6

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-07-16

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
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<tbody>
<tr>
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<td>None</td>
<td>No</td>
<td>Insulation</td>
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</table>

**HAZARD NOTES:**

None found

**SUBSTANCE NOTES:** Blowing agent used in polyisocyanurate insulation.

### Alumina Trihydrate

**ID:** 21645-51-2

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-07-16

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
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<td>0.00 - 0.60</td>
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**HAZARD NOTES:**

None found

**SUBSTANCE NOTES:** Powder coating. GreenScreen Benchmark® assessment score of BM-2 was provided by the HPD Builder Tool.

### Ferric Oxide

**ID:** 1309-37-1

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-07-16

<table>
<thead>
<tr>
<th>%</th>
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<td>No</td>
<td>Pigment</td>
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**HAZARD NOTES:**

None found

**SUBSTANCE NOTES:** Powder coating. This substance is considered essentially inert for the purposes of Pharos toxics scoring (Pharos CML). GreenScreen Benchmark® assessment score of BM-2 was provided by the HPD Builder Tool.
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.

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<th>VOC EMISSIONS</th>
<th>CPDH Standard Method - not tested</th>
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<tr>
<td>CERTIFYING PARTY:</td>
<td>Self-declared</td>
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<tr>
<td>APPLICABLE FACILITIES:</td>
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<td>CERTIFICATE URL:</td>
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<td>2019-09-29</td>
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<td>EXPIRY DATE:</td>
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<tr>
<td>CERTIFIER OR LAB:</td>
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<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES:</td>
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</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

HPD URL: https://www.babcockdavis.com/products/fall-protection/safety-railings

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

OSHA compliant fall protection safety railings and posts specifically designed for Roof Hatches, Smoke Vents and Floor Doors.

Section 5: General Notes

Personnel and Hurricane Roof Hatches

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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:** www.SMcWilliams@babcockdavis.com

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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/organ toxicity
- **MUL** Multiple hazards
- **NEU** Neurotoxicity
- **OZO** Ozone depletion
- **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

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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.
Aluminum Safety Railing by Babcock-Davis

CLASSIFICATION: 05 52 00 Metals: Metal Railings

PRODUCT DESCRIPTION: Babcock-Davis offers OSHA compliant fall protection safety railings and posts specifically designed for Roof Hatches, Smoke Vents and Floor Doors. This HPD covers Roof Hatch Safety Railing (BSRC), Ladder Post (BSP), Grab Bar (BSGB) Floor Door Safety Railing (BSRTA), and Smoke Vent Safety Railing (BSRV, BSRTA).

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

All Substances Above the Threshold Indicated Are:
- Characterized
  - Yes Ex/SC
  - Yes
  - No
- Screened
  - Yes Ex/SC
  - Yes
  - No
- Identified
  - Yes Ex/SC
  - 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.

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

PREPARER: Self-Prepared
VERIFIER: 
VERIFICATION #: 
SCREENING DATE: 2019-07-16
PUBLISHED DATE: 2019-09-26
EXPIRY DATE: 2022-07-16
Section 2: Content in Descending Order of Quantity

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

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

%: 57.50 - 60.00
GS: LT-P1
RC: Both
NANO: No
ROLE: Base Metal

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS
RESPIRATORY
AOEC - Asthmagens
Asthmagens (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

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

%: 39.50 - 41.00
GS: NoGS
RC: Both
NANO: No
ROLE: Base Metal
HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

Chain; clamp; plate; mixed hardware. Recycled content confirmed by suppliers for steel used in product ranges from 18.5% total (14.0% pre-consumer and 4.5% post-consumer recycled scrap) to 97.8% total (36.5% pre-consumer and 61.3% postconsumer recycled scrap). Documentation from suppliers provide the following composition for alloying elements that may individually exceed the declared threshold: <3.1% Silicon [7440-21-3; LT-UNK]; <2.5% Manganese [7439-96-5; LT-P1]; <1.6% Aluminum [7429-90-5; LT-P1]; <4.0% Nickel [7440-02-0; LT-1]; <3.0% Chromium [7440-47-3; LT-P1].

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

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

Yellow powder coating. Supplier has shared substance identity under the terms of a non-disclosure agreement; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

TITANIUM DIOXIDE

ID: 13463-67-7

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

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

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

ID: 7440-66-6

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

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

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.

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<table>
<thead>
<tr>
<th>SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES</th>
<th>ID: 64742-65-0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZARD SCREENING METHOD:</strong> Pharos Chemical and Materials Library</td>
<td><strong>HAZARD SCREENING DATE:</strong> 2019-07-16</td>
</tr>
<tr>
<td><strong>%:</strong> Impurity/Residual</td>
<td><strong>GS:</strong> LT-1</td>
</tr>
</tbody>
</table>

<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>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-08-16</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td></td>
</tr>
<tr>
<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

Aluminum Safety Railing
hpdrepository.hpd-collaborative.org

HPD v2.1.1 created via HPDC Builder Page 5 of 6
## 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>hazard types</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQU Aquatic toxicity</td>
<td></td>
</tr>
<tr>
<td>CAN Cancer</td>
<td></td>
</tr>
<tr>
<td>DEV Developmental toxicity</td>
<td></td>
</tr>
<tr>
<td>END Endocrine activity</td>
<td></td>
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<tr>
<td>EYE Eye irritation/corrosivity</td>
<td></td>
</tr>
<tr>
<td>GEN Gene mutation</td>
<td></td>
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<tr>
<td>GLO Global warming</td>
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<tr>
<td>MAM Mammalian/systemic/organ toxicity</td>
<td></td>
</tr>
<tr>
<td>MUL Multiple hazards</td>
<td></td>
</tr>
<tr>
<td>NEU Neurotoxicity</td>
<td></td>
</tr>
<tr>
<td>OZO Ozone depletion</td>
<td></td>
</tr>
<tr>
<td>PBT Persistent Bioaccumulative Toxic</td>
<td></td>
</tr>
<tr>
<td>PHY Physical Hazard (reactive)</td>
<td></td>
</tr>
<tr>
<td>REP Reproductive toxicity</td>
<td></td>
</tr>
<tr>
<td>RES Respiratory sensitization</td>
<td></td>
</tr>
<tr>
<td>SKI Skin sensitization/irritation/corrosivity</td>
<td></td>
</tr>
<tr>
<td>LAN Land Toxicity</td>
<td></td>
</tr>
</tbody>
</table>

GreenScreen (GS)

<table>
<thead>
<tr>
<th>Benchmark Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM-4 Benchmark 4 (prefer-safer chemical)</td>
</tr>
<tr>
<td>BM-3 Benchmark 3 (use but still opportunity for improvement)</td>
</tr>
<tr>
<td>BM-2 Benchmark 2 (use but search for safer substitutes)</td>
</tr>
<tr>
<td>BM-1 Benchmark 1 (avoid - chemical of high concern)</td>
</tr>
</tbody>
</table>

Recycled Types

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>PreC Preconsumer (Post-Industrial)</td>
</tr>
<tr>
<td>PostC Postconsumer</td>
</tr>
<tr>
<td>Both Both Preconsumer and Postconsumer</td>
</tr>
<tr>
<td>Unk Inclusion of recycled content is unknown</td>
</tr>
<tr>
<td>None Does not include recycled content</td>
</tr>
</tbody>
</table>

Other Terms

<table>
<thead>
<tr>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inventory Methods:</td>
</tr>
<tr>
<td>Nested Method / Material Threshold</td>
</tr>
<tr>
<td>Nested Method / Product Threshold</td>
</tr>
<tr>
<td>Basic Method / Product Threshold</td>
</tr>
<tr>
<td>Nano Composed of nano scale particles or nanotechnology</td>
</tr>
<tr>
<td>Third Party Verified Verification by independent certifier approved by HPDC</td>
</tr>
<tr>
<td>Preparer Third party preparer, if not self-prepared by manufacturer</td>
</tr>
</tbody>
</table>

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.