July 2019

RE: Sustainability Statement

Nystrom certifies and provides the following information for use in achieving LEED v4 credit for the specification of Nystrom Wall and Door Protection.

**Product**   Aluminum Crash Rails and Corner Guards,
**Model(s)**  CRAE4

**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.

- **Option 2:** Material Ingredient Optimization (1 point) Use permanently installed products from at least three different manufacturers that document their material ingredient optimization using the paths below. Choose either 10 compliant products, or select products that constitute at least 10%, by cost, of the total value of permanently installed products in the project.
  - GreenScreen v1.2 Benchmark. Products that have fully inventoried chemical ingredients to 100 ppm that have no Benchmark 1 hazards

If you require any further information, please do not hesitate to contact us at (800) 547-2635
Classification: 10 26 00 Specialties: Wall and Door Protection

Product Description: Wall and Door Protection is an integral part of a commercial project to prevent damage and safeguard your building investment. Nystrom’s Aluminum Wall Protection offers a superior level of protection in medium abuse areas. This HPD includes Nystrom’s Aluminum Crash Rails (CRAE4) and Aluminum Corner Guards.

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
- All Substances Above the Threshold Indicated Are:
  - Characterized
  - Screened
  - Identified

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 WALL PROTECTION [6063 ALUMINUM LT-P1] | RES | PHY | END |

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 and Option 2

Third Party Verified?
- Yes
- No

Preparer: Self-Prepared
Verification:
Verification #: 2019-07-17
Published Date: 2019-07-18
Expiry Date: 2022-07-17
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)

ALUMINUM WALL PROTECTION

PRODUCT THRESHOLD: 100 ppm
RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered by following the suggestions of Emerging Best Practices. This product consists of 100% 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:

6063 ALUMINUM
ID: 7429-90-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-07-17

%: 100.00 - 100.00
GS: LT-P1
RC: Both
NANO: No
ROLE: Base Metal

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: Recycled content confirmed by supplier for Aluminum used in product: 50% post industrial recycled scrap and 25% post consumer recycled scrap. Documentation from supplier provides the following composition for alloying elements that may individually exceed the declared threshold: 1.2% Magnesium [7439-96-4; LT-UNK]; 0.8% Silicon [7440-21-3; LT-UNK]; 0.7% Iron [7439-89-6; LT-P1]; 0.4% Chromium [7440-47-3; LT-P1]; 0.4% Copper [7440-50-8; LT-UNK]; 0.3% Cobalt [7440-48-4; LT-1]; 0.3% Zinc [7440-66-6; LT-P1]; 0.2% Manganese [7439-96-5; LT-P1]; 0.2% Titanium [7440-32-6; LT-UNK]; max 0.2% Columbium [7440-03-1; LT-UNK]. May also include 5052 Aluminum for small components (e.g. Hardware). 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.
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>Inherently non-emitting source per LEED®</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY:</td>
<td>Self-declared</td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES:</td>
<td>This product qualifies as an inherently non-emitting source per LEED, as 100% of the product consists of powder-coated metal and/or plated or anodized metal. As per LEED, &quot;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.&quot;</td>
</tr>
<tr>
<td>ISSUE DATE</td>
<td>2019-07-17</td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-07-17</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.

### MOUNTING HARDWARE

| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: | Hardware used for product installation includes 1/4-20 nylon Lock nuts 18-8 stainless steel, and 1/4-20 X 1 PFH MS 18-8 Stainless Steel screws. Please contact manufacturer if more information is required. |
| HPD URL: | No HPD available |

Section 5: General Notes
**MANUFACTURER INFORMATION**

**MANUFACTURER:** Nystrom  
**ADDRESS:** 9300 73rd Avenue North  
Minneapolis MN 55428, United States  
**WEBSITE:** www.nystrom.com

**CONTACT NAME:** Sandy McWilliams  
**TITLE:** Director of Business Development  
**PHONE:** (800) 547-2635  
**EMAIL:** SMcWilliams@nystrom.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**

<table>
<thead>
<tr>
<th>AQU</th>
<th>Aquatic toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAN</td>
<td>Cancer</td>
</tr>
<tr>
<td>DEV</td>
<td>Developmental toxicity</td>
</tr>
<tr>
<td>END</td>
<td>Endocrine activity</td>
</tr>
<tr>
<td>EYE</td>
<td>Eye irritation/corrosivity</td>
</tr>
<tr>
<td>GEN</td>
<td>Gene mutation</td>
</tr>
<tr>
<td>GLO</td>
<td>Global warming</td>
</tr>
<tr>
<td>MAM</td>
<td>Mammalian/systemic/organ toxicity</td>
</tr>
<tr>
<td>MUL</td>
<td>Multiple hazards</td>
</tr>
<tr>
<td>NEU</td>
<td>Neurotoxicity</td>
</tr>
<tr>
<td>OZO</td>
<td>Ozone depletion</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent Bioaccumulative Toxic</td>
</tr>
<tr>
<td>PHY</td>
<td>Physical Hazard (reactive)</td>
</tr>
<tr>
<td>REP</td>
<td>Reproductive toxicity</td>
</tr>
<tr>
<td>RES</td>
<td>Respiratory sensitization</td>
</tr>
<tr>
<td>SKI</td>
<td>Skin sensitization/irritation/corrosivity</td>
</tr>
<tr>
<td>LAN</td>
<td>Land Toxicity</td>
</tr>
<tr>
<td>NF</td>
<td>Not found on Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**GreenScreen (GS)**

| BM-4 Benchmark 4 | LT-P1 List Translator Possible Benchmark 1 |
| BM-3 Benchmark 3 | LT-1 List Translator Likely Benchmark 1 |
| BM-2 Benchmark 2 | LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark) |
| BM-1 Benchmark 1 | NoGS Unknown (no data on List Translator Lists) |
| BM-U Benchmark Unspecified (insufficient data to benchmark) |

**Recycled Types**

| PreC | Preconsumer (Post-Industrial) |
| PostC | Postconsumer |
| 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.