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

### Are All Substances Above the Threshold Indicated?
- Characterized
- Percent Weight and Role Provided?
- Yes No
- Screened
- Using Priority Hazard Lists with Results Disclosed?
- Yes No
- Identified
- Name and Identifier Provided?
  - Yes No

### Inventory and Screening Notes:
- Residuals/Impurities in select raw materials are quantitatively measured, and are displayed in the HPD when greater than 1000ppm.

### Volatile Organic Compound (VOC) Content
VOC Content data is not applicable for this product category.

### Certifications and Compliance
Other: International Living Future Institute - Metalworks Declare Label
LCA: Environmental Product Declaration for Metalworks

### Consistency with Other Programs
No pre-checks completed or disclosed
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, available on the HPDC website at:  
[www.hpd-collaborative.org/hpd-2-1-standard](http://www.hpd-collaborative.org/hpd-2-1-standard)

### Metalworks (Snap In; Clip On; 3D; Torsion Spring)

**Product Threshold:** 1000 ppm

**Residuals and Impurities Considered:** Yes

**Residuals and Impurities Notes:** Residuals/impurities in select raw materials are quantitatively measured, and are displayed in the HPD when greater than 1000ppm.

**Other Product Notes:** Residuals / impurities in select raw materials are quantitatively measured and are displayed in the HPD when greater than 1000ppm.

---

### Aluminum

**ID:** 7429-90-5

<table>
<thead>
<tr>
<th>%: 85.0000 - 95.0000</th>
<th>GS: LT-P1</th>
<th>RC: Both</th>
<th>NANO: No</th>
<th>ROLE: Base Ingredient</th>
</tr>
</thead>
</table>

**Hazards:**

- **Respiratory: AOE - Asthmagens**
  - Asthagen (ARs) - sensitizer-induced - inhalable forms only

- **Endocrine: TEDX - Potential Endocrine Disruptors**
  - Potential Endocrine Disruptor

- **Physical Hazard (Reactive): EU - GHS (H-Statements)**
  - H228 - Flammable solid
  - H250 - Catches fire spontaneously if exposed to air
  - H261 - In contact with water releases flammable gases

**Substance Notes:** None

---

### Aluminum

**ID:** 7429-90-5

<table>
<thead>
<tr>
<th>%: 85.0000 - 95.0000</th>
<th>GS: LT-P1</th>
<th>RC: Both</th>
<th>NANO: No</th>
<th>ROLE: Base Ingredient</th>
</tr>
</thead>
</table>

**Hazards:**

- **Respiratory: AOE - Asthmagens**
  - Asthagen (ARs) - sensitizer-induced - inhalable forms only

- **Endocrine: TEDX - Potential Endocrine Disruptors**
  - Potential Endocrine Disruptor

- **Physical Hazard (Reactive): EU - GHS (H-Statements)**
  - H228 - Flammable solid
  - H250 - Catches fire spontaneously if exposed to air
  - H261 - In contact with water releases flammable gases

**Substance Notes:** None
<table>
<thead>
<tr>
<th>Substance Name</th>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>HAZARDS:</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
<th>Substance Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>13463-67-7</td>
<td>1.0000 - 10.0000</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
</tbody>
</table>

**Substance Notes:** Titanium Dioxide is bound within the coating and is not inhalable. Accordingly, it is excluded from regulatory hazard lists. It is not in a respirable form in the final product.

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>HAZARDS:</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
<th>Substance Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TALC</td>
<td>14807-96-6</td>
<td>0.1000 - 1.0000</td>
<td>BM-1</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
<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:** None

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>HAZARDS:</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
<th>Substance Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. PIGMENT BLACK 28</td>
<td>68186-91-4</td>
<td>0.0100 - 0.1000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

**Substance Notes:** None

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>HAZARDS:</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
<th>Substance Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILICA GEL</td>
<td>112926-00-8</td>
<td>0.0100 - 0.1000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Thickner</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td>None</td>
</tr>
</tbody>
</table>

**Substance Notes:** None
### 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>OTHER</th>
<th>International Living Future Institute - Metalworks Declare Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY:</td>
<td>Third Party</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td><a href="https://access.living-future.org/metalworks%E2%84%A2-snap-clip-3d-torsion-spring">https://access.living-future.org/metalworks%E2%84%A2-snap-clip-3d-torsion-spring</a></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2017-04-01</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td>2018-04-01</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>ILFI</td>
</tr>
</tbody>
</table>

**CERTIFICATION AND COMPLIANCE NOTES:**

**LCA**

<table>
<thead>
<tr>
<th>Environmental Product Declaration for Metalworks</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY:</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
</tr>
<tr>
<td>ISSUE DATE:</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
</tr>
</tbody>
</table>

**CERTIFICATION AND COMPLIANCE NOTES:**

### 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

This HPD is provided solely for the intended recipient in connection with its assessment of products and for no other purpose. In providing information, AWI expresses no opinion and makes no representations as to the applicability, suitability, accuracy or completeness of the declaration form, or the standards, rules, classifications, warnings or criteria utilized or referenced therein. Information provided herein is qualified in the entirety by reference to the applicable product Safety Data Sheet (SDS) which can be located at www.armstrongceilings.com, as well as by the additional ingredient information provided for specified substances. Please refer to the Armstrong Commercial Ceilings website for more information on this product.

### Section 6: References

Armstrong Metalworks (Snap In; Clip On; 3D; Torsion Spring)
MANUFACTURER INFORMATION

MANUFACTURER: Armstrong World Industries
ADDRESS: 2500 Columbia Avenue
Lancaster PA 17603, USA
WEBSITE: www.armstrongceilings.com

CONTACT NAME: Armstrong Technical Services
TITLE: Techline
PHONE: 1-877-276-7876
EMAIL: techline@armstrongceilings.com

KEY

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