Armstrong Metalworks Tegular (Aluminum) by Armstrong World Industries

CLASSIFICATION: 095100

PRODUCT DESCRIPTION: Durable, aluminum panels with 100% upward accessibility offer excellent sound blocking/absorption options. Panels can be used to create continuous looks or clouds. Standard perforation options allow for acoustical performance and design aesthetics. This HPD covers Aluminum system with Whitelume; Silverlume and Gunmetal paint.

Section 1: Summary

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
Residuals/Impurities Considered in 2 of 2 Materials

Explanation(s) provided for Residuals/Impurities?
☐ Yes ☐ No

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

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 FOR CEILING PANEL SYSTEM | ALUMINUM [LT-P1] | RES | END |
PHY ALUMINUM (PYROTECHNICAL POWDER) (ALUMINUM PYROTECHNICAL POWDER) | LT-UNK | COATING FOR METAL CEILING PANELS | TITANIUM DIOXIDE [LT-1] | CAN | END TALC BM-1 | CAN COPPER CHROMITE BLACK SPINEL [LT-UNK] | SILICA GEL [LT-UNK]

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

See Section 3 for additional listings.
LCA: Environmental Product Declaration
Material content migration: ILFI Declare - Red List Free - Third Party Verified

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?
☐ Yes ☐ No

PREPARER: Self-Prepared
VERIFIER: 
VERIFICATION #: 
SCREENING DATE: 2017-09-21
PUBLISHED DATE: 2017-09-21
EXPIRY DATE: 2020-09-21
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, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

ALUMINUM FOR CEILING PANEL SYSTEM

<table>
<thead>
<tr>
<th>%: 85.0000 - 95.0000</th>
<th>HPD URL:</th>
</tr>
</thead>
</table>

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

ALUMINUM

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

HAZARDS:
RESPIRATORY
AOEC - Asthmagens
Asthmagen (ARs) - sensitizer-induced - inhalable forms only

ENDOCRINE
TEDX - Potential Endocrine Disruptors
Potential Endocrine Disruptor

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

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

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

SUBSTANCE NOTES: Base material for ceiling panel

ALUMINUM (PYROTECHNICAL POWDER) (ALUMINUM (PYROTECHNICAL POWDER))

<table>
<thead>
<tr>
<th>%: 0.1000 - 1.0000</th>
<th>GB: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Coating - Pigment</th>
</tr>
</thead>
</table>

HAZARDS:
None Found

SUBSTANCE NOTES: Ingredient in base material

COATING FOR METAL CEILING PANELS

<table>
<thead>
<tr>
<th>%: 1.0000 - 10.0000</th>
<th>HPD URL:</th>
</tr>
</thead>
</table>

PRODUCT THRESHOLD: 1000 ppm
RESIDUALS AND IMPURITIES CONSIDERED: Yes
### Titanium Dioxide

**ID:** 13463-67-7  
**Role:** Pigment

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0000 - 10.0000</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

**Hazards:**

- **Cancer**
  - US CDC - Occupational Carcinogens: Occupational Carcinogen
  - CA EPA - Prop 65: Carcinogen - specific to chemical form or exposure route
  - IARC: Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
  - MAK: Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

**Endocrine:**

- TEDX - Potential Endocrine Disruptors: Potential Endocrine Disruptor

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

### Talc

**ID:** 14807-96-6  
**Role:** Filler

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1000 - 1.0000</td>
<td>BM-1</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
</tr>
</tbody>
</table>

**Hazards:**

- **Cancer**
  - MAK: Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

**Substance Notes:** Talc is bound within the coating and not inhalable. It is not in a respirable form in the final product.

### Copper Chromite Black Spinel

**ID:** 68186-91-4  
**Role:** Pigment

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0100 - 1.0000</td>
<td>LT-UNK</td>
<td>UNK</td>
<td>No</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

**Hazards:**

- None Found

**Substance Notes:** Pigment for coating

### Silica Gel

**ID:** 112926-00-8  
**Role:** thickener

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0100 - 1.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>thickener</td>
</tr>
</tbody>
</table>
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.

LCA

- CERTIFYING PARTY: Third Party
- APPLICABLE FACILITIES:
- CERTIFICATE URL: https://www.armstrongceilings.com/content/dam/armstrongceilings/commercial/north-america/epds/metalworks-epd.pdf
- CERTIFICATION AND COMPLIANCE NOTES: Industry EPD

Environmental Product Declaration

- ISSUE DATE: 2013-11-11
- EXPIRY DATE: 2018-11-11
- CERTIFIER OR LAB: Institute Construction and Environment e.V. (IBU)

MATERIAL CONTENT MIGRATION

- CERTIFYING PARTY: Self-declared
- APPLICABLE FACILITIES: all
- CERTIFICATE URL: https://www.armstrongceilings.com/content/dam/armstrongceilings/commercial/north-america/certificates/metalworks-declare.pdf
- CERTIFICATION AND COMPLIANCE NOTES: Red List Free

ILFI Declare - Red List Free - Third Party Verified

- ISSUE DATE: 2017-04-01
- EXPIRY DATE: 2018-04-01
- CERTIFIER OR LAB: ILFI

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.

CEILING SUSPENSION SYSTEM

- HPD URL: No HPD link provided

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
Please visit the product website for more information on compatible suspension systems.

Section 5: General Notes

Armstrong Metalworks Tegular (Aluminum)

www.hpd-collaborative.org
Section 6: References

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@armstrong.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/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 Unspec’d (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

Armstrong Metalworks Tegular (Aluminum)
www.hpd-collaborative.org

HPD v2.1 created via HPDC Builder Page 5 of 6
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.