Section 1: Summary

Basic Method / Product Threshold

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:
- Yes ☐ No ☑

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
--- | --- | --- | --- | ---
TECTUM WALL & CEILING PANELS | AMERICAN ASPEN | NoGS | | |
MAGNESIUM OXIDE | LT-UNK | SODIUM SILICATE | LT-P1 | END |
MAGNESIUM SULFATE, ANHYDROUS | LT-UNK | CALCIUM CARBONATE | BM-3 | UNK |
QUARTZ | LT-1 | CAN TITANIUM DIOXIDE | LT-1 | CAN |
CHRISTOBALITE | LT-1 | CAN TALC | BM-3 | CAN |

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 content: CA Section 01350 (CHPS) Emission Test
- VOC content: VOC Certificate to meet CDPH
- LCA: Environmental Product Declaration for Tectum

CONSISTENCY WITH OTHER PROGRAMS
No pre-checks completed or disclosed

Third Party Verified?
- Yes ☑ No ☐

PREPARER: Self-Prepared
VERIFIER: 
VERIFICATION #: 
SCREENING DATE: 2017-09-11
PUBLISHED DATE: 2017-09-11
EXPIRY DATE: 2020-09-11
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

TECTUM WALL & CEILING PANELS

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.

AMERICAN ASPEN

ID: Not registered
%: 85.0000 - 95.0000
GB: NoGS
RC: None
NANO: No
ROLE: Wood fiber base

HAZARDS:
AGENCY(IES) WITH WARNINGS:
None Found
No warnings found on HPD Priority lists

SUBSTANCE NOTES: None

MAGNESIUM OXIDE

ID: 1309-48-4
%: 20.0000 - 25.0000
GB: LT-UNK
RC: None
NANO: No
ROLE: Binder

HAZARDS:
AGENCY(IES) WITH WARNINGS:
None Found
No warnings found on HPD Priority lists

SUBSTANCE NOTES: None

SODIUM SILICATE

ID: 1344-09-8
%: 15.0000 - 20.0000
GB: LT-P1
RC: None
NANO: No
ROLE: Binder

HAZARDS:
AGENCY(IES) WITH WARNINGS:
ENDOCRINE
TEDX - Potential Endocrine Disruptors
Potential Endocrine Disruptor

SUBSTANCE NOTES: Sodium Silicate is bound within the substrate. It is not in a hazardous form in the final product.
### Magnesium Sulfate, Anhydrous

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0000 - 9.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Board</td>
</tr>
</tbody>
</table>

**Hazards:** None

**Agency(ies) with warnings:** None Found

**No warnings found on HPD Priority lists**

**Substance Notes:** Ingredient in board

### Calcium Carbonate

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0000 - 8.0000</td>
<td>BM-3</td>
<td>None</td>
<td>No</td>
<td>Board and Coating</td>
</tr>
</tbody>
</table>

**Hazards:** None

**Agency(ies) with warnings:** None Found

**No warnings found on HPD Priority lists**

**Substance Notes:** Substance in board and coating

### Urea

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5000 - 5.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Board</td>
</tr>
</tbody>
</table>

**Hazards:** None

**Agency(ies) with warnings:** None Found

**No warnings found on HPD Priority lists**

**Substance Notes:** None

### Quartz

<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>LT-1</td>
<td>None</td>
<td>No</td>
<td>Coating</td>
</tr>
</tbody>
</table>

**Hazards:**
- **Cancer**
  - US CDC - Occupational Carcinogens: Occupational Carcinogen
  - CA EPA - Prop 65: Carcinogen - specific to chemical form or exposure route
  - US NIH - Report on Carcinogens: Known to be Human Carcinogen (respirable size - occupational setting)
  - MAK: Carcinogen Group 1 - Substances that cause cancer in man
  - IARC: Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
  - New Zealand - GHS: 6.7A - Known or presumed human carcinogens
  - Australia - GHS: H350 - May cause cancer

**Substance Notes:** Quartz is bound within the coating. It is not in a respirable form in the final installed product.
### TITANIUM DIOXIDE

**ID:** 13463-67-7  
**%:** 0.1000 - 0.5000  
**GS:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Pigment

**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
  - ENDOCRINE
  - TEDX - Potential Endocrine Disruptors
  - Potential Endocrine Disruptor
  - MAK
  - Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

**SUBSTANCE NOTES:** Titanium Dioxide is bound within the coating. It is not in a reparable form in the final installed product.

### SILICA, CHRISTOBALITE

**ID:** 14464-46-1  
**%:** 0.1000 - 0.2000  
**GS:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Coating

**HAZARDS:**
- **CANCER**
  - US CDC - Occupational Carcinogens
  - Occupational Carcinogen
  - CA EPA - Prop 65
  - Carcinogen - specific to chemical form or exposure route
  - US NIH - Report on Carcinogens
  - Known to be Human Carcinogen (respirable size - occupational setting)
  - MAK
  - Carcinogen Group 1 - Substances that cause cancer in man
  - IARC
  - Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
  - New Zealand - GHS
  - 6.7A - Known or presumed human carcinogens
  - Japan - GHS
  - Carcinogenicity - Category 1A
  - Australia - GHS
  - H350 - May cause cancer

**SUBSTANCE NOTES:** Silica is bound within the coating. It is not in a reparable form in the final installed product.

### TALC

**ID:** 14807-96-6  
**%:** 0.0100 - 1.0000  
**GS:** BM-1  
**RC:** None  
**NANO:** No  
**ROLE:** Coating

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

<table>
<thead>
<tr>
<th>Certifying Party</th>
<th>Applicable Facilities</th>
<th>Certificate URL</th>
<th>Issue Date</th>
<th>Expiry Date</th>
<th>Certifier or Lab</th>
</tr>
</thead>
</table>

**Certification and Compliance Notes:** For Ceiling Systems

### LCA

<table>
<thead>
<tr>
<th>Certifying Party</th>
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<th>Certificate URL</th>
<th>Issue Date</th>
<th>Expiry Date</th>
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**Certification and Compliance Notes:**

### VOC CONTENT

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</table>

**Certification and Compliance Notes:** For Wall Systems

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: 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 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 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
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.