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

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

CANYON CEILINGS BY ARMSTRONG WORLD INDUSTRIES | PERLITE (PERLITE) | LT-UNK | MINERAL WOOL (BIOINSOLUBLE, WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT GREATER THAN 18 % BY WEIGHT) | LT-UNK | CAN FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT (FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT) | LT-UNK | CELLULOSE PULP | LT-UNK | STARCH | LT-UNK | KAOLIN CLAY | LT-UNK | CAN LIMESTONE; CALCIUM CARBONATE | LT-UNK | CALCIUM CARBONATE | LT-UNK | TITANIUM DIOXIDE | LT-UNK | END HYDROXYETHYL STARCH 130/0.4 (USAN) | NGCS | POLY(VINYL ALCOHOL) | LT-UNK | DOLOMITE | NGCS | FATTY ACIDS, C16-22 AND C18-UNSATD. | (FATTY ACIDS, C16-22 AND C18-UNSATD.) | LT-UNK | POLYVINYL ACETATE (PVA) | LT-UNK | QUARTZ | LT-UNK | CAN STARCH, PHOSPHATE | LT-UNK | SILICA, AMORPHOUS | LT-P1 | CAN ALUMINA TRIHYDRATE | BM-2 | RES MELAMINE CYANURATE | BM-1 | ETHERYLENE COPOLYMER | NGCS

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: Clear Chem - Berkeley Analytical - CDPH/EHLB/Std Method V1.1 2010 Compliant for Canyon

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

SCREENING DATE: 2017-08-29

PUBLISHED DATE: 2017-08-29

EXPIRY DATE: 2020-08-29
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)

### CANYON CEILINGS BY ARMSTRONG WORLD INDUSTRIES

**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:** All ingredients have been screened

#### PERLITE (PERLITE)

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>50.0000 - 60.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
</tr>
</tbody>
</table>

**HAZARDS:**

None Found

**SUBSTANCE NOTES:** This ingredient has been screened and no hazards are reported.

#### MINERAL WOOL (BIOINSOLUBLE, WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT GREATER THAN 18 % BY WEIGHT)

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.0000 - 50.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Core</td>
</tr>
</tbody>
</table>

**HAZARDS:**

- CANCER EU - R-phrases R40 - Limited Evidence of Carcinogenic Effects
- CANCER EU - GHS (H-statements) H351 - Suspected of causing cancer

**SUBSTANCE NOTES:** Mineral fiber is not classified as a carcinogen by IARC, NTP, CA Proposition 65 or OSHA. The R40 and H351 phrases below are triggered by a special provision “Note Q”, found only in the EU’s CLP Regulation and for which the applicability to the provided products is neither certain nor adopted by the manufacturer. The world’s leading institute on carcinogen classification, the International Agency for Research on Cancer (IARC) has determined that there is insufficient evidence to classify this material as carcinogenic. The EU’s CLP Regulation focused on creating criteria to characterize biosolubility, but did not provide data to support a causal relationship between the EU test method and actual carcinogenicity.

#### FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT (FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT)

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0000 - 5.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Core and Scrim</td>
</tr>
</tbody>
</table>

**HAZARDS:**

None Found

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** Mineral fiber is not classified as a carcinogen by IARC, NTP, CA Proposition 65 or OSHA. The R40 and H351 phrases below are triggered by a special provision “Note Q”, found only in the EU’s CLP Regulation and for which the applicability to the provided products is neither certain nor adopted by the manufacturer. The world’s leading institute on carcinogen classification, the International Agency for Research on Cancer (IARC) has determined that there is insufficient evidence to classify this material as carcinogenic. The EU’s CLP Regulation focused on creating criteria to characterize biosolubility, but did not provide data to support a causal relationship between the EU test method and actual carcinogenicity.
**CELLULOSE PULP**

<table>
<thead>
<tr>
<th>ID: 65996-61-4</th>
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<tbody>
<tr>
<td>%: 1.0000 - 10.0000</td>
</tr>
<tr>
<td>GS: NoGS</td>
</tr>
<tr>
<td>RC: None</td>
</tr>
<tr>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Binder</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This ingredient has been screened and no hazards are reported.

**HAZARDS:**

None Found  
No warnings found on HPD Priority lists


**STARCH**

<table>
<thead>
<tr>
<th>ID: 9005-25-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 1.0000 - 10.0000</td>
</tr>
<tr>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td>RC: None</td>
</tr>
<tr>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Core</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This ingredient has been screened and no hazards are reported.

**HAZARDS:**

None Found  
No warnings found on HPD Priority lists


**KAOLIN CLAY**

<table>
<thead>
<tr>
<th>ID: 1332-58-7</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.5000 - 5.0000</td>
</tr>
<tr>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td>RC: None</td>
</tr>
<tr>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Filler</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** MAK denotes German occupational exposure.

**HAZARDS:**

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


**LIMESTONE; CALCULUM CARBONATE**

<table>
<thead>
<tr>
<th>ID: 1317-65-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.1000 - 5.0000</td>
</tr>
<tr>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td>RC: None</td>
</tr>
<tr>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Filler</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This ingredient has been screened and no hazards are reported.

**HAZARDS:**

None Found  
No warnings found on HPD Priority lists


**CALCULUM CARBONATE**

<table>
<thead>
<tr>
<th>ID: 471-34-1</th>
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</thead>
<tbody>
<tr>
<td>%: 0.1000 - 5.0000</td>
</tr>
<tr>
<td>GS: BM-3</td>
</tr>
<tr>
<td>RC: None</td>
</tr>
<tr>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Filler</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This ingredient has been screened and no hazards are reported.
### HAZARDS:

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** This ingredient has been screened and no hazards are reported.

---

### TITANIUM DIOXIDE

**ID:** 13463-67-7

<table>
<thead>
<tr>
<th>%: 0.1000 - 1.0000</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Pigment</th>
</tr>
</thead>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

- **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:**

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.

---

### HYDROXYETHYL CELLULOSE

**ID:** 9004-62-0

<table>
<thead>
<tr>
<th>%: 0.1000 - 5.0000</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Thickener</th>
</tr>
</thead>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

- **ENDOCRINE**
  - TEDX - Potential Endocrine Disruptors
  - Potential Endocrine Disruptor

**SUBSTANCE NOTES:**

This ingredient has been screened and no hazards are reported.

---

### HYDROXYETHYL STARCH 130/0.4 [USAN]

**ID:** 9005-27-0

<table>
<thead>
<tr>
<th>%: 0.1000 - 5.0000</th>
<th>GS: NoGS</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Binder</th>
</tr>
</thead>
</table>

**HAZARDS:**

None Found

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:**

This ingredient has been screened and no hazards are reported.

---

### POLY(VINYL ALCOHOL)

**ID:** 9002-89-5

<table>
<thead>
<tr>
<th>%: 0.1000 - 1.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Binder</th>
</tr>
</thead>
</table>

---

Armstrong Commercial Ceilings Canyon

www.hpd-collaborative.org

HPD v2.1 created via HPDC Builder Page 4 of 9
### DOLOMITE

**ID:** 16389-88-1  
**%:** 0.1000 - 1.0000  
**GS:** NoGS  
**RC:** None  
**NANO:** No  
**ROLE:** Filler

**HAZARDS:** No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** This ingredient has been screened and no hazards are reported.

### FATTY ACIDS, C16-22 AND C18-UNSATD. (FATTY ACIDS, C16-22 AND C18-UNSATD.)

**ID:** 68424-13-5  
**%:** 0.0100 - 1.0000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Binder

**HAZARDS:** No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** This ingredient has been screened and no hazards are reported.

### POLYVINYL ACETATE (PVA)

**ID:** 9003-20-7  
**%:** 0.0100 - 0.1000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Binder

**HAZARDS:** No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** This ingredient has been screened and no hazards are reported.

### QUARTZ

**ID:** 14808-60-7  
**%:** 0.0100 - 1.0000  
**GS:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Filler

**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

**SUBSTANCE NOTES:** This ingredient has been screened and no hazards are reported.
SUBSTANCE NOTES: Quartz 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. MAK denotes German occupational exposure.

STARCH, PHOSPHATE

ID: 11120-02-8

SUBSTANCE NOTES: This ingredient has been screened and no hazards are reported.

SILICA, AMORPHOUS

ID: 7631-86-9

SUBSTANCE NOTES: This ingredient has been screened and no hazards are reported.

ALUMINA TRIHYDRATE

ID: 21645-51-2

SUBSTANCE NOTES: Aluminum trihydrate is bound within the product and not inhalable. Accordingly, it is excluded from regulatory hazard lists. It is not in a respirable form in the final product.

MELAMINE CYANURATE

ID: 37640-57-6

SUBSTANCE NOTES: This ingredient has been screened and no hazards are reported.
**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>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
</tr>
</tbody>
</table>

Clear Chem - Berkeley Analytical - CDPH/EHLB/Std Method V1.1 2010 Compliant for Canyon

| ISSUE DATE: | 2016-02-09 |
| EXPiry DATE: | 2018-02-09 |
| CERTIFIER OR LAB: | Berkeley Analytical |

**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.

**ARMSTRONG SUSPENSION SYSTEMS**


**CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:**

All Armstrong ceiling panels can be combined with Armstrong Suspension systems to create a total ceiling solution.

**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, Armstrong World Industries 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.
## MANUFACTURER INFORMATION

**MANUFACTURER:** Armstrong World Industries  
**ADDRESS:** 2500 Columbia Ave.  
Lancaster PA 17603, USA  
**WEBSITE:** [https://www.armstrongceilings.com](https://www.armstrongceilings.com)  
**CONTACT NAME:** Armstrong Technical Services  
**TITLE:** Techline  
**PHONE:** 1-877-276-7876  
**EMAIL:** techline@armstrong.com

### KEY

<table>
<thead>
<tr>
<th>Key Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA MSDS</td>
<td>Occupational Safety and Health Administration Material Safety Data Sheet</td>
</tr>
<tr>
<td>GHS SDS</td>
<td>Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet</td>
</tr>
</tbody>
</table>

### 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

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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.