Armstrong Commercial Ceilings Ultima High Recycled Content by Armstrong World Industries

Health Product Declaration v2.2
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 21752
CLASSIFICATION: 09 51 00 Acoustical Ceilings

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
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

All Substances Above the Threshold Indicated Are:
- Characterized
- Yes Ex/SC
- Yes
- No

% weight and role provided for all substances.

Screened
- Yes Ex/SC
- Yes
- No

All substances screened using Priority Hazard Lists with results disclosed.

Identified
- Yes Ex/SC
- Yes
- No

All substances disclosed by Name (Specific or Generic) and Identifier.

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
--- | --- | --- | --- | ---
ULTIMA HRC COMMERCIAL CEILINGS | MINERAL WOOL (BIOSOLUBLE, WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT GREATER THAN 18 % BY WEIGHT) LT-UNK | CELLULOSE PULP LT-UNK | LT-1 | CAN END FIBERGLASS LT-UNK

STARCH LT-UNK
TITANIUM DIOXIDE LT-1 | CAN | END FIBERGLASS LT-UNK
KAO LIN CLAY LT-UNK | CAN LIMESTONE; CALCIUM CARBONATE LT-UNK
PERLITE (PERLITE) LT-UNK POLY(VINYL ALCOHOL) LT-UNK
ETHYLENE COPOLYMER NOGS KAO LIN, CALCINED LT-UNK QUARTZ LT-1 | CAN ]

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.

VOC emissions: UL/GreenGuard Gold Certified
LCA: Environmental Product Declaration
Other: International Living Future Institute - Ultima AirGuard Declare Label

CONSISTENCY WITH OTHER PROGRAMS
Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?
Yes
PREPARER: Self-Prepared
VERIFIER: 
VERIFICATION #: 
SCREENING DATE: 2020-09-18
PUBLISHED DATE: 2020-09-18
EXPIRY DATE: 2023-09-18
## 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 2.2, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-2-standard](http://www.hpd-collaborative.org/hpd-2-2-standard)

### ULTIMA HRC COMMERCIAL CEILINGS

<table>
<thead>
<tr>
<th>PRODUCT THRESHOLD:</th>
<th>1000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDUALS AND IMPURITIES CONSIDERED:</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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


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

- **ID:** 65997-17-3
- **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
- **HAZARD SCREENING DATE:** 2020-09-18
- **%:** 30.0000 - 55.0000
- **GS:** LT-UNK
- **RC:** None
- **NANO:** No
- **SUBSTANCE ROLE:** Structure component

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**Substance Notes:** Base material

### CELLULOSE PULP

- **ID:** 65996-61-4
- **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
- **HAZARD SCREENING DATE:** 2020-09-18
- **%:** 8.0000 - 10.0000
- **GS:** NoGS
- **RC:** Both
- **NANO:** No
- **SUBSTANCE ROLE:** Structure component

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**Substance Notes:** Base ingredient

### STARCH

- **ID:** 9005-25-8
- **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
- **HAZARD SCREENING DATE:** 2020-09-18
- **%:** 5.0000 - 18.0000
- **GS:** LT-UNK
- **RC:** PostC
- **NANO:** No
- **SUBSTANCE ROLE:** Binder

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### TITANIUM DIOXIDE

**ID:** 13463-67-7  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-09-18

- **%:** 1.0000 - 5.0000  
- **GS:** LT-1  
- **RC:** None  
- **NANO:** No  
- **SUBSTANCE ROLE:** Pigment

**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  

**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.

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### FIBERGLASS

**ID:** 65997-17-3  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-09-18

- **%:** 1.0000 - 5.0000  
- **GS:** LT-UNK  
- **RC:** None  
- **NANO:** No  
- **SUBSTANCE ROLE:** Structure component

**WARNINGS:** No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:**
- This ingredient is not inhalable, it is excluded from regulatory hazard lists. It is not in a reparable form in the final product.

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### KAOLIN CLAY

**ID:** 1332-58-7  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-09-18

- **%:** 1.0000 - 10.0000  
- **GS:** LT-UNK  
- **RC:** None  
- **NANO:** No  
- **SUBSTANCE ROLE:** Filler

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

**SUBSTANCE NOTES:**
- This ingredient is not inhalable, it is excluded from regulatory hazard lists. It is not in a reparable form in the final product.
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIMESTONE; CALCIUM CARBONATE</td>
<td>1317-65-3</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-09-18</td>
<td>1.0000 - 5.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>PEARLITE (PERLITE)</td>
<td>93763-70-3</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-09-18</td>
<td>0.5000 - 10.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>POLY(VINYL ALCOHOL)</td>
<td>9002-89-5</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-09-18</td>
<td>0.1000 - 1.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Binder</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>ETHYLENE COPOLYMER</td>
<td>26713-18-8</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-09-18</td>
<td>0.1000 - 1.0000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Adhesive</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>
# KAOLIN, CALCINED

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-09-18

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

**HAZARD TYPE**

| None found |

**AGENCY AND LIST TITLES**

| WARNINGS |
| No warnings found on HPD Priority Hazard Lists |

**SUBSTANCE NOTES:** None

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# QUARTZ

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-09-18

<table>
<thead>
<tr>
<th>%:</th>
<th>0.0100 - 5.0000</th>
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<tbody>
<tr>
<td>GS:</td>
<td>LT-1</td>
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<tr>
<td>RC:</td>
<td>None</td>
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<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE:</td>
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</table>

**HAZARD TYPE**

<table>
<thead>
<tr>
<th>CANCER</th>
</tr>
</thead>
<tbody>
<tr>
<td>US CDC - Occupational Carcinogens</td>
</tr>
<tr>
<td>Occupational Carcinogen</td>
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</table>

<table>
<thead>
<tr>
<th>CANCER</th>
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<tbody>
<tr>
<td>CA EPA - Prop 65</td>
</tr>
<tr>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CANCER</th>
</tr>
</thead>
<tbody>
<tr>
<td>US NIH - Report on Carcinogens</td>
</tr>
<tr>
<td>Known to be Human Carcinogen (respirable size - occupational setting)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CANCER</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAK</td>
</tr>
<tr>
<td>Carcinogen Group 1 - Substances that cause cancer in man</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CANCER</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC</td>
</tr>
<tr>
<td>Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CANCER</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC</td>
</tr>
<tr>
<td>Group 1 - Agent is Carcinogenic to humans</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CANCER</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS - New Zealand</td>
</tr>
<tr>
<td>6.7A - Known or presumed human carcinogens</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CANCER</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS - Japan</td>
</tr>
<tr>
<td>Carcinogenicity - Category 1A [H350]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CANCER</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS - Australia</td>
</tr>
<tr>
<td>H350i - May cause cancer by inhalation</td>
</tr>
</tbody>
</table>

**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.
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>UL/GreenGuard Gold Certified</th>
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</thead>
<tbody>
<tr>
<td>Third Party</td>
<td></td>
</tr>
<tr>
<td>APPLICABLE FACILITIES</td>
<td>all</td>
</tr>
<tr>
<td>ISSUE DATE</td>
<td>2020-04-16</td>
</tr>
<tr>
<td>EXPIRY DATE</td>
<td>2021-05-02</td>
</tr>
<tr>
<td>CERTIFIER OR LAB</td>
<td>UL Environment</td>
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</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: UL GG GOld

### LCA

<table>
<thead>
<tr>
<th>CERTIFYING PARTY</th>
<th>Environmental Product Declaration</th>
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</thead>
<tbody>
<tr>
<td>Third Party</td>
<td></td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td></td>
</tr>
<tr>
<td>ISSUE DATE</td>
<td>2016-03-31</td>
</tr>
<tr>
<td>EXPIRY DATE</td>
<td>2020-03-31</td>
</tr>
<tr>
<td>CERTIFIER OR LAB</td>
<td>UL Environment</td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: Environmental Product Declaration - Product Specific

### OTHER

<table>
<thead>
<tr>
<th>CERTIFYING PARTY</th>
<th>International Living Future Institute - Ultima AirGuard Declare Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Third Party</td>
<td></td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>all</td>
</tr>
<tr>
<td>ISSUE DATE</td>
<td>2020-06-01</td>
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<tr>
<td>EXPIRY DATE</td>
<td>2021-06-01</td>
</tr>
<tr>
<td>CERTIFIER OR LAB</td>
<td>ILFI</td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: Red List free Declare Label

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. Additional Ingredient Information for Specified Substances: (if ingredient is listed in content inventory, include this note in substance notes below ingredient.)
MANUFACTURER INFORMATION

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

CONTACT NAME: Anita Snader
TITLE: Sustainability Manager
PHONE: 1-877-276-7876
EMAIL: techline@armstrongceilings.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
LAN Land toxicity
MAM Mammalian/systemic/organ toxicity
MUL Multiple
NEU Neurotoxicity
NF Not found on Priority Hazard Lists
OZO Ozone depletion
PBT Persistent, bioaccumulative, and toxic
PHY Physical hazard (flammable or reactive)
REP Reproductive
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
UNK Unknown

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 (due to insufficient data)
LT-P1 List Translator Possible 1 (Possible Benchmark-1)
LT-1 List Translator 1 (Likely Benchmark-1)
LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
NoGS No GreenScreen.

Recycled Types
PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

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.