Armstrong Commercial Ceilings Lyra PB High CAC
by Armstrong World Industries

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

HPD UNIQUE IDENTIFIER:  21640
CLASSIFICATION:  09 51 00 Acoustical Ceilings
PRODUCT DESCRIPTION:  Create a monolithic visual with Lyra’s smooth, white, drywall-like visual. High acoustics; Excellent sound-blocking; Washable, Impact-resistant, Scratch-resistant, Soil-resistant. All items are manufactured with a plant-based binder. Compatible with the TechZone® Ceiling Systems

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

Screened: Yes Ex/SC, Yes, No

Identified: Yes Ex/SC, 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
--- | --- | --- | --- | ---
CEILING SUBSTRATE FOR LYRA PB HIGH CAC | MINERAL WOOL (BIOINSOLUBLE, WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT GREATER THAN 18 % BY WEIGHT) | LT-UNK | KAOLIN CLAY LT-UNK | CAN PELRITE LT-UNK FIBERGLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT LT-P1 | MUL FIBERGLASS LT-UNK CELLULOSE PULP NoGS | STARCH LT-UNK STARCH ACRYLIC BINDER NoGS POLYVINYL ACETATE (PVA) LT-UNK LIMESTONE; CALCIUM CARBONATE LT-UNK VEGETABLE OIL NoGS ALUMINA TRIHYDRATE BM-2 POLYVINYL ALCOHOL) LT-UNK DIPROPYLENE GLYCOL DIBENZOATE LT-P1 | MUL POLY(METHYLHYDROSYLOXANE) NoGS QUARTZ LT-1 | 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 emissions: UL/GreenGuard Gold Certified
LCA: Environmental Product Declaration (EPD) by UL
Other: ILFI Declare - LBC Compliant

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Preparer: Self-Prepared
Verifier: Self-Prepared
Verification #: 

Third Party Verified?
- Yes
- No

SCREENING DATE: 2020-09-08
PUBLISHED DATE: 2020-09-08
EXPIRY DATE: 2023-09-08
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

### CEILING SUBSTRATE FOR LYRA PB HIGH CAC

**PRODUCT THRESHOLD:** 100 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:** For more information on Armstrong Lyra PB High CAC visit https://www.armstrongceilings.com/commercial/en-us/commercial-ceilings-walls/lyra-high-cac-ceiling-tiles.html#redirect_term=LYRA+Plant+Based+%28PB%29+High+CAC

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

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-09-08

<table>
<thead>
<tr>
<th>%:</th>
<th>30.0000 - 40.0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS:</td>
<td>LT-UNK</td>
</tr>
<tr>
<td>RC:</td>
<td>PreC</td>
</tr>
<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE:</td>
<td>Structure component</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**

None found  
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** base Structure

### KAOLIN CLAY

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-09-08

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

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**

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

**SUBSTANCE NOTES:** Binder

### PERLITE

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-09-08

**SUBSTANCE NOTES**
**FIBERGLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT**

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2020-09-08

None found  
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Filler

**FIBERGLASS**

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2020-09-08

None found  
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Base

**CELLULOSE PULP**

ID: 65996-61-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2020-09-08

None found  
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Binder

**STARCH**

ID: 9005-25-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2020-09-08

None found  
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Binder
<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>
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</thead>
<tbody>
<tr>
<td>STARCH ACRYLIC BINDER</td>
<td>60323-79-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-09-08</td>
<td>1.0000 - 5.0000</td>
<td>NoGS</td>
<td>Both</td>
<td>No</td>
<td>Binder</td>
</tr>
<tr>
<td>POLYVINYL ACETATE (PVA)</td>
<td>9003-20-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-09-08</td>
<td>1.0000 - 5.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Adhesive</td>
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<td>LIMESTONE; CALCIUM CARBONATE</td>
<td>1317-65-3</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-09-08</td>
<td>1.0000 - 5.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
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<tr>
<td>VEGETABLE OIL</td>
<td>68918-91-2</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-09-08</td>
<td>0.1000 - 1.0000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Binder</td>
</tr>
<tr>
<td>Substance</td>
<td>ID</td>
<td>HAZARD SCREENING METHOD</td>
<td>HAZARD SCREENING DATE</td>
<td>%</td>
<td>GS</td>
<td>RC</td>
<td>NANO</td>
<td>SUBSTANCE ROLE</td>
</tr>
<tr>
<td>-----------------------------------</td>
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<tr>
<td>ALUMINA TRIHYDRATE</td>
<td>21645-51-2</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-09-08</td>
<td>0.1000 - 1.0000</td>
<td>BM-2</td>
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<td>No</td>
<td>Filler</td>
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<tr>
<td>POLY(VINYL ALCOHOL)</td>
<td>9002-89-5</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-09-08</td>
<td>0.1000 - 1.0000</td>
<td>LT-UNK</td>
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<td>No</td>
<td>Binder</td>
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<tr>
<td>DIPROPYLENE GLYCOL DIBENZOATE</td>
<td>27138-31-4</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-09-08</td>
<td>0.1000 - 1.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Adhesive</td>
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<tr>
<td>POLY(METHYLHYDROSILOXANE)</td>
<td>63148-57-2</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-09-08</td>
<td>0.0100 - 0.1000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Antistain</td>
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### Quartz

**ID:** 14808-60-7  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-09-08

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td>CANCER</td>
<td>US NIH - Report on Carcinogens</td>
<td>Known to be Human Carcinogen (respirable size - occupational setting)</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 1 - Substances that cause cancer in man</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 1 - Agent is Carcinogenic to humans</td>
</tr>
<tr>
<td>CANCER</td>
<td>GHS - New Zealand</td>
<td>6.7A - Known or presumed human carcinogens</td>
</tr>
<tr>
<td>CANCER</td>
<td>GHS - Japan</td>
<td>Carcinogenicity - Category 1A [H350]</td>
</tr>
<tr>
<td>CANCER</td>
<td>GHS - Australia</td>
<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.

<table>
<thead>
<tr>
<th>VOC EMISSIONS</th>
<th>UL/GreenGuard Gold Certified</th>
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</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY: Third Party</td>
<td>ISSUE DATE: 2018-04-16</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES: all</td>
<td>EXPIRY DATE: 2021-04-16</td>
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<tr>
<td>CERTIFICATE URL: <a href="https://www.armstrongceilings.com/content/dam/armstrongceilings/commercial/north-america/certificates/lyra-pb-greenguard-certificate.pdf">https://www.armstrongceilings.com/content/dam/armstrongceilings/commercial/north-america/certificates/lyra-pb-greenguard-certificate.pdf</a></td>
<td>CERTIFIER OR LAB: UL Environment</td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES: UL GG Gold</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LCA</th>
<th>Environmental Product Declaration (EPD) by UL</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY: Third Party</td>
<td>ISSUE DATE: 2016-03-31</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES: all</td>
<td>EXPIRY DATE: 2021-03-31</td>
</tr>
<tr>
<td>CERTIFICATE URL: <a href="https://www.armstrongceilings.com/commercial/en-us/commercial-ceilings-walls/lyra-high-cac-ceiling-tiles.html#redirect_term=LYRA+Plant+Based+%28PB%29+High+CAC">https://www.armstrongceilings.com/commercial/en-us/commercial-ceilings-walls/lyra-high-cac-ceiling-tiles.html#redirect_term=LYRA+Plant+Based+%28PB%29+High+CAC</a></td>
<td>CERTIFIER OR LAB: UL Environment</td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES: Product Specific</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OTHER</th>
<th>ILFI Declare - LBC Compliant</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY: Third Party</td>
<td>ISSUE DATE: 2019-10-01</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES: all</td>
<td>EXPIRY DATE: 2020-10-01</td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES: Red List Compliant</td>
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</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>ARMSTRONG SUSPENSION SYSTEMS</th>
<th>HPD URL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPD v2.2 created via HPDC Builder Page 7 of 9</td>
<td></td>
</tr>
</tbody>
</table>

ARMSTRONG SUSPENSION SYSTEMS | HPD URL: |
|-------------------------------|----------|
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 Avenue
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.