Lyra™ PB Ceiling Panels by Armstrong World Industries

HPD UNIQUE IDENTIFIER: 21523
CLASSIFICATION: 09 51 00 Acoustical Ceilings
PRODUCT DESCRIPTION: Lyra fiberglass ceiling panels feature a smooth, white, drywall-like visual on a fiberglass substrate that is made with a plant-based binder and formulated without formaldehyde resins. Lyra panels are offer high absorption (NRC) and light reflectance and are available in a variety of standard sizes – including large format panels. These impact, scratch and soil resistance panels are made from 75% recycled content and can be recycled at the end of their useful life as part of the Armstrong Recycling Program.

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
--- | --- | --- | --- | ---
LYRA™ PB CEILING PANELS [ GLASS, OXIDE, CHEMICALS LT-UNK STARCH ACRYLIC BINDER NoGS CALCIUM CARBONATE LT-UNK ALUMINUM HYDROXIDE BM-2 MODIFIED VEGETABLE OIL NoGS POLYVINYL ACETATE LT-UNK DIBENZOATE LT-1 MUL QUARTZ LT-1 CAN POLYVINYL ALCOHOL LT-UNK SIOXANE NoGS ]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

- VOC emissions: UL/GreenGuard Gold Certified
- Other: ILFI Declare - Red List Free
- LCA: Environmental Product Declaration (EPD) by UL

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER: 
VERIFICATION #: 
SCREENING DATE: 2020-08-27
PUBLISHED DATE: 2020-08-27
EXPIRY DATE: 2023-08-27

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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)

LYRA™ PB CEILING PANELS

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 100ppm.

GLASS, OXIDE, CHEMICALS

| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2020-08-27 |
| %: 65.0000 - 85.0000 | GS: LT-UNK | RC: None | NANO: Unknown | SUBSTANCE ROLE: Structure component |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| None found | No warnings found on HPD Priority Hazard Lists |
SUBSTANCE NOTES: base material

STARCH ACRYLIC BINDER

| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2020-08-27 |
| %: 5.0000 - 15.0000 | GS: NoGS | RC: None | NANO: Unknown | SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| None found | No warnings found on HPD Priority Hazard Lists |
SUBSTANCE NOTES: Binder

CALCIUM CARBONATE

| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2020-08-27 |
| %: 5.0000 - 15.0000 | GS: LT-UNK | RC: None | NANO: Unknown | SUBSTANCE ROLE: Filler |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| None found | No warnings found on HPD Priority Hazard Lists |

Lyra PB Ceiling Panels

[hpdepository.hpd-collaborative.org](http://hpdepository.hpd-collaborative.org)
<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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<tr>
<td>Aluminum Hydroxide</td>
<td>21645-51-2</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-08-27</td>
<td>0.0000 - 10.0000</td>
<td>BM-2</td>
<td>None</td>
<td>Unknown</td>
<td>Filler</td>
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<tr>
<td>Modified Vegetable Oil</td>
<td>68918-91-2</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-08-27</td>
<td>0.0000 - 10.0000</td>
<td>NoGS</td>
<td>None</td>
<td>Unknown</td>
<td>Surface modifier</td>
</tr>
<tr>
<td>Polyvinyl Acetate</td>
<td>9003-20-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-08-27</td>
<td>0.0000 - 5.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>Unknown</td>
<td>Binder</td>
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<tr>
<td>Dibenzoate</td>
<td>27138-31-4</td>
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<td>LT-P1</td>
<td>None</td>
<td>Unknown</td>
<td>Filler</td>
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<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
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<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
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</tbody>
</table>

**SUBSTANCE NOTES:** Filler

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**QUARTZ**

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-08-27

| %: 0.0000 - 2.0000 | GS: LT-1 | RC: None | NANO: Unknown | SUBSTANCE ROLE: Impurity |

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

- **CANCER**  
  - IARC: Group 1 - Agent is Carcinogenic to humans
  - US CDC - Occupational Carcinogens: Occupational Carcinogen
  - CA EPA - Prop 65: Carcinogen - specific to chemical form or exposure route
  - IARC: Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
  - US NIH - Report on Carcinogens: Known to be Human Carcinogen (respirable size - occupational setting)
  - MAK: Carcinogen Group 1 - Substances that cause cancer in man
  - GHS - New Zealand: 6.7A - Known or presumed human carcinogens
  - GHS - Japan: Carcinogenicity - Category 1A [H350]
  - GHS - Australia: H350i - May cause cancer by inhalation

**SUBSTANCE NOTES:** It is bound by the adhesives within the coating. It is not in a respirable form in the final product. Accordingly, it is excluded from regulatory hazards list.

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**POLYVINYL ALCOHOL**

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-08-27

| %: 0.0000 - 1.0000 | GS: LT-UNK | RC: None | NANO: Unknown | SUBSTANCE ROLE: Binder |

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

None found  
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Binder

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**SILOXANE**

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-08-27

| %: 0.0000 - 1.0000 | GS: NoGS | RC: None | NANO: Unknown | SUBSTANCE ROLE: Surface modifier |

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<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: Binder
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

**UL/GreenGuard Gold Certified**

**CERTIFYING PARTY:** Third Party  
**APPLICABLE FACILITIES:** all  
**ISSUE DATE:** 2018-04-16  
**EXPIRY DATE:** 2021-04-16  
**CERTIFIER OR LAB:** UL Environment  

**CERTIFICATION AND COMPLIANCE NOTES:** UL GreenGuard Gold

### OTHER

**ILFI Declare - Red List Free**

**CERTIFYING PARTY:** Third Party  
**APPLICABLE FACILITIES:** all  
**ISSUE DATE:** 2019-10-01  
**EXPIRY DATE:** 2020-10-01  
**CERTIFIER OR LAB:** ILFI  

**CERTIFICATION AND COMPLIANCE NOTES:** ILFI Red List Approved

### LCA

**Environmental Product Declaration (EPD) by UL**

**CERTIFYING PARTY:** Third Party  
**APPLICABLE FACILITIES:** all  
**ISSUE DATE:** 2016-03-31  
**EXPIRY DATE:** 2021-03-31  
**CERTIFIER OR LAB:** UL Environment  

**CERTIFICATION AND COMPLIANCE NOTES:** Product Specific EPD

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

See more information on this product at https://www.armstrongceilings.com/commercial/en-us/commercial-ceilings-walls/lyra-ceiling-tiles.html#redirect_term=LYRA+Plant+Based+%28PB%29
MANUFACTURER INFORMATION

MANUFACTURER: Armstrong World Industries
ADDRESS: 2500 Columbia Avenue, Lancaster PA 17603, USA
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 LT-P1 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
- 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.