### Section 1: Summary

#### Nested Method / Product Threshold

**CONTENT INVENTORY**

<table>
<thead>
<tr>
<th>Inventory Reporting Format</th>
<th>Threshold level</th>
<th>Residuals/Impurities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nested Materials Method</td>
<td>100 ppm</td>
<td>Residuals/Impurities</td>
</tr>
<tr>
<td>Basic Method</td>
<td>1,000 ppm</td>
<td>Considered in 2 of 2 Materials</td>
</tr>
<tr>
<td>Other</td>
<td>Per GHS SDS</td>
<td>Explanation(s) provided for Residuals/Impurities?</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>Yes, No</td>
</tr>
</tbody>
</table>

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**
---|---|---|---|---
G2 CORE BOARD | SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS) | LT-UNK | PERLITE | LT-UNK | CELLULOSE, MICROCRYSTALLINE<br>LT-UNK | RES SOLUBLE STARCH<br>NoGS<br>G2<br>PAINT | KAOLIN CLAY | LT-UNK | CAN | CALCIUM CARBONATE BM-3<br>TITANIUM DIOXIDE LT-1 | LT-UNK |

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
Nanomaterial ... No

**INVENTORY AND SCREENING NOTES:**

All residuals and impurities have been considered and have been noted when applicable under the HPD Builder Guidelines.

**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: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

**CONSISTENCY WITH OTHER PROGRAMS**

Pre-checked for LEED v4 Material Ingredients Option 1
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

<table>
<thead>
<tr>
<th><strong>G2 CORE BOARD</strong></th>
<th>%: 94.0000 - 99.0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT THRESHOLD: 100 ppm</td>
<td>RESIDUALS AND IMPURITIES CONSIDERED: Yes</td>
</tr>
<tr>
<td>MATERIAL TYPE: Other: Composite acoustical board</td>
<td></td>
</tr>
</tbody>
</table>

RESIDUALS AND IMPURITIES NOTES: All residuals and impurities have been considered and have been noted when applicable under the HPD Builder Guidelines.

OTHER MATERIAL NOTES: This core board formulation is incorporated in the following products: Avalon Fire-rated, Protectone Baroque, Protectone Baroque Customline, Protectone Cashmere, Protectone Sky, Protectone Directional Fissured, Protectone Fine Fissured, Protectone Fine Fissured Customline and Protectone School Board variations within the formulation are a result of the represented product groups.
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>% Range</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS)</td>
<td>ID: 65997-17-3</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-30</td>
<td>36.0000 - 52.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Structure component</td>
</tr>
<tr>
<td>PERLITE</td>
<td>ID: 93763-70-3</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-30</td>
<td>19.0000 - 36.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
</tr>
<tr>
<td>CELLULOSE, MICROCRYSTALLINE</td>
<td>ID: 9004-34-6</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-30</td>
<td>6.0000 - 12.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
</tr>
<tr>
<td>SOLUBLE STARCH</td>
<td>ID: 9005-84-9</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-30</td>
<td>5.0000 - 12.0000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Binder</td>
</tr>
</tbody>
</table>

**Substance Notes:** This core board formulation is incorporated in the following products: Avalon Fire-rated, Protectone Baroque, Protectone Baroque Customline, Protectone Cashmere, Protectone Sky, Protectone Directional Fissured, Protectone Fine Fissured, Protectone Fine Fissured Customline, Protectone School Board variations within the formulation are a result of the represented product groups.
**G2 PAINT**

**PRODUCT THRESHOLD:** 100 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes  
**MATERIAL TYPE:** Other: Paint Coating

**RESIDUALS AND IMPURITIES NOTES:** All residuals and impurities have been considered and have been noted when applicable under the HPD Builder Guidelines.

**OTHER MATERIAL NOTES:** This paint formulation is incorporated in the following products; Avalon Fire-rated, Protectone Baroque, Protectone Baroque Customline, Protectone Cashmere, Protectone Sky, Protectone Directional Fissured, Protectone Fine Fissured, Protectone Fine Fissured Customline and Protectone School Board. The ranges within the formulation are representative of the ranges in the individual paint formulations.

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**KAOLIN CLAY**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%: 15.0000 - 45.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Filler</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  
Cancer  
Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

**SUBSTANCE NOTES:** This paint formulation is incorporated in the following products; Avalon Fire-rated, Protectone Baroque, Protectone Baroque Customline, Protectone Cashmere, Protectone Sky, Protectone Directional Fissured, Protectone Fine Fissured, Protectone Fine Fissured Customline and Protectone School Board. The ranges within the formulation are representative of the ranges in the individual paint formulations.

---

**CALCIUM CARBONATE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%: 7.0000 - 30.0000</th>
<th>GS: BM-3</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Filler</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  
None found  
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** This paint formulation is incorporated in the following products; Avalon Fire-rated, Protectone Baroque, Protectone Baroque Customline, Protectone Cashmere, Protectone Sky, Protectone Directional Fissured, Protectone Fine Fissured, Protectone Fine Fissured Customline and Protectone School Board. The ranges within the formulation are representative of the ranges in the individual paint formulations.

---

**TALC**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%: 3.0000 - 15.0000</th>
<th>GS: BM-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Filler</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  
Cancer  
Group 2b - Possibly carcinogenic to humans  
Cancer  
Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

**SUBSTANCE NOTES:** This paint formulation is incorporated in the following products; Avalon Fire-rated, Protectone Baroque, Protectone Baroque Customline, Protectone Cashmere, Protectone Sky, Protectone Directional Fissured, Protectone Fine Fissured, Protectone Fine Fissured Customline and Protectone School Board. The ranges within the formulation are representative of the ranges in the individual paint formulations.

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**POLY(VINYL ALCOHOL)**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%: 2.0000 - 6.0000</th>
<th>GS: UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Filler</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2020-10-30

<table>
<thead>
<tr>
<th>%: 3.0000 - 12.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Binder</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This paint formulation is incorporated in the following products; Avalon Fire-rated, Protectone Baroque, Protectone Baroque Customline, Protectone Cashmere, Protectone Sky, Protectone Directional Fissured, Protectone Fine Fissured, Protectone Fine Fissured Customline and Protectone School Board. The ranges within the formulation are representative of the ranges in the individual paint formulations.

### TITANIUM DIOXIDE

<table>
<thead>
<tr>
<th>%: 2.0000 - 15.0000</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Brightener</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** There is no respiratory fraction as this is bound within the paint and Industrial hygiene testing is lower than the OSHA PEL.

This paint formulation is incorporated in the following products; Avalon Fire-rated, Protectone Baroque, Protectone Baroque Customline, Protectone Cashmere, Protectone Sky, Protectone Directional Fissured, Protectone Fine Fissured, Protectone Fine Fissured Customline and Protectone School Board, Protectone Vantage 10. The ranges within the formulation are representative of the ranges in the individual paint formulations.
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>CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom &amp; Office scenario</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY: Third Party</td>
<td>ISSUE DATE: 2019-06-03</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES: L'Anse Michigan</td>
<td>EXPIRY DATE:</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td>CERTIFIER OR LAB: Berkeley Analytical</td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES:</td>
<td></td>
</tr>
</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.

CERTAINEED CEILINGS STEEL SUSPENSION SYSTEM WITH PAINTED STEEL CAPPING BY SAINT GOBAIN

HPD URL: https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=22740

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
This the recommended fire proof suspension system for this product line.

Section 5: General Notes

All raw materials have been screened through the HPD Builder Tool and noted at the 100 ppm threshold. Proper care and caution has been noted in the production process and safe handling of material can be found on the SDS in the link below. For complete Safety and EHS information on any and all CertainTeed Ceiling Products please see https://www.certainteed.com/commercial-ceilings/

CertainTeed has screened the following products and their ingredients against chemicals listed in Living Building Challenge Red List 4.0. CertainTeed Ceilings G2 Products do not contain the listed chemicals above 100 ppm. Note the recommended suspension system also has an HPD’s and will generate an additional LEED point for incorporation into the ceiling design.
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.