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 Considered in 2 of 2 Materials</td>
</tr>
<tr>
<td>Basic Method</td>
<td>1,000 ppm</td>
<td>Explanation(s) provided for Residuals/Impurities?</td>
</tr>
<tr>
<td></td>
<td>Per GHS SDS</td>
<td>Yes ☐ Ex/SC ☑ Yes ☐ No</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 | RESOLBLE STARCH NoGS | LT-UNK
G2 PAINT | KAOLIN CLAY | LT-UNK | SOLUBLE STARCH NoGS | LT-UNK
CALCIUM CARBONATE | BM-3 | TALC | BM-1 | CAN POLY(VINYL ALCOHOL) | LT-UNK | TITANIUM DIOXIDE | LT-1 | CAN | END

Number of Greenscreen BM-4/BM3 contents ... 1
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

No pre-checks completed or disclosed
## 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)

### G2 CORE BOARD

<table>
<thead>
<tr>
<th>%: 94.0000 - 99.0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT THRESHOLD:</td>
</tr>
<tr>
<td>RESIDUALS AND IMPURITIES CONSIDERED:</td>
</tr>
<tr>
<td>MATERIAL TYPE:</td>
</tr>
<tr>
<td>RESIDUALS AND IMPURITIES NOTES:</td>
</tr>
<tr>
<td>OTHER MATERIAL NOTES:</td>
</tr>
</tbody>
</table>

### SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS)

<table>
<thead>
<tr>
<th>%: 36.0000 - 52.0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td>RC: None</td>
</tr>
<tr>
<td>NANO: No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE: Structure component</td>
</tr>
<tr>
<td>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td>HAZARD SCREENING DATE: 2020-08-07</td>
</tr>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

### PERLITE

<table>
<thead>
<tr>
<th>%: 19.0000 - 36.0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td>RC: None</td>
</tr>
<tr>
<td>NANO: No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE: Filler</td>
</tr>
<tr>
<td>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td>HAZARD SCREENING DATE: 2020-08-07</td>
</tr>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>
**CELLULOSE, MICROCRYSTALLINE**

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-08-07  
**%:** 6.0000 - 12.0000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Filler  
**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  
**RESPIRATORY**  
AOEC - Asthmagens  
Asthmagens (Rs) - sensitizer-induced

**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.

**SOLUBLE STARCH**

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-08-07  
**%:** 5.0000 - 12.0000  
**GS:** NoGS  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Binder  
**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  
No warnings found on HPD Priority Hazard Lists

**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**

**%:** 2.0000 - 6.0000  
**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.

**KAOLIN CLAY**

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-08-07  
**%:** 15.0000 - 45.0000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Filler  
**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  
**CANCER**  
MAK  
Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
### Calcium Carbonate

**ID:** 471-34-1  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-08-07  
**%:** 7.0000 - 30.0000  
**GS:** BM-3  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Filler

<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>

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

**ID:** 14807-96-6  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-08-07  
**%:** 3.0000 - 15.0000  
**GS:** BM-1  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Filler

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2b - Possibly carcinogenic to humans</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</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.

### Polyvinyl Alcohol

**ID:** 9002-89-5  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-08-07  
**%:** 3.0000 - 12.0000  
**GS:** LT-UNK  
**RC:** None  
**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>

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.
TITANIUM DIOXIDE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-08-07

%: 2.0000 - 15.0000

GS: LT-1

RC: None

NANO: No

SUBSTANCE ROLE: Brightener

HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS
--- | --- | ---
CANCER | US CDC - Occupational Carcinogens | Occupational Carcinogen
CANCER | CA EPA - Prop 65 | Carcinogen - specific to chemical form or exposure route
CANCER | IARC | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor
CANCER | MAK | Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
CANCER | MAK | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

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.

VOC EMISSIONS

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>L'Anse Michigan</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-06-03</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td></td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>Berkeley Analytical</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.

CEILING TILE SUSPENSION SYSTEM

| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: | Ceiling tiles are seated inside of ceiling grid that is hung from an overhead structure. See website for additional information http://www.certainteed.com/commercial-ceilings/ |
| HPD URL: | No HPD Available |

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/
MANUFACTURER INFORMATION

MANUFACTURER: Saint Gobain
ADDRESS: 20 Moores Road
Malvern PA 19355, United States
WEBSITE: www.certainteed.com/commercial-ceilings/

CONTACT NAME: Robert Marshall
TITLE: Senior Technical Services Manager
PHONE: 800-233-8990
EMAIL: Robert.L.Marshall@saint-gobain.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 LT1 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.