

SCS Global Services does hereby certify that an independent assessment has been conducted on behalf of:

ASC Profiles LLC

2110 Enterprise Boulevard, West Sacramento, CA, United States

For the following product(s):

See Addendum

The product(s) meet(s) all of the necessary qualifications to be certified for the following claim(s):

VERIFIED HEALTH PRODUCT DECLARATION

This validation conforms to the **Health Product Declaration Open Standard, Version 2.2 (May 18, 2020)**. Products have a complete, basic method, product threshold HPD and have been validated for health hazard warnings at an inventory threshold 100 ppm (0.01%).



HPD Screening Dates: 9/27/21

Verification #: qGE-2485

Registration # SCS-HPD-04787

Valid from: March 7, 2022 to September 27, 2024



A handwritten signature in black ink that reads 'Stanley Mathuram'.

Stanley Mathuram, PE, Executive Vice President
SCS Global Services
2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA

Certification Addendum

ASC Profiles LLC

Certification: Registration # SCS-HPD-04787 | Valid from: March 7, 2022 to September 27, 2024

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HPD Screening Dates: 9/27/21

Verification #: qGE-2485

Products: **Metal Panels/Sheets:**

AEP Span Products with ZINCALUME Plus Substrate: 22-3/4", 30-3/16", 37", 37-1/2", 42-15/16", 46", 48", 48-3/8" Flat Sheets in 18-29 gauge, Box Rib™/Reversed Box Rib in 18-29 gauge, Design Span® hp 12", 16", 17", 18" in 22-26 gauge, Flex Series in 20-24 gauge, Flush Panel in 20-26 gauge, HR-36® /Reverse HR-36 in 18-29 gauge, Narrow Batten Select Seam® in 22-24 gauge, Wide Batten Select Seam® in 22-24 gauge, Nu-Wave® Corrugated in 18-29 gauge, Mini-V-Beam™ in 18-26 gauge, Prestige Series® in 18-24 gauge, Perception Collection® in 20-24 gauge, Select Seam® in 18-24 gauge, Span-Lok™ / Span-Lok hp in 22-24 gauge, SpanSeam™ in 18-24 gauge, PBR in 22-26ga, U-Panel in 20-29 gauge, C 1.4-32 (CF 1 3/8") in 18-26 gauge, CP-32 in 18-26 gauge, and 41- 9/16" Standard Perforated 33% in 26ga.

HPD UNIQUE IDENTIFIER: 27754

CLASSIFICATION: 07 60 00 Flashing and Sheet Metal

PRODUCT DESCRIPTION: Unpainted AEP Span Profiles with a ZINCALUME® (Galvalume®) substrate. AEP Span manufactures roof and siding profiles using roll forming, press break and folder operations. The manufacturing process forms coiled steel into various product shapes but does not alter the material ingredient composition of the product. As a result the underlying substrate determines the contents of the product subject to screening. This HPD covers the assessment of the following AEP Span Products: 22-3/4", 30-3/16", 37", 37-1/2", 42-15/16", 46", 48", 48-3/8" Flat Sheets in 18-29 gauge, Box Rib™/Reversed Box Rib in 18-29 gauge, Design Span® hp 12", 16", 17", 18" in 22-26 gauge, Flex Series in 20-24 gauge, Flush Panel in 20-26 gauge, HR-36® /Reverse HR-36 in 18-29 gauge, Narrow Batten Select Seam® in 22-24 gauge, Wide Batten Select Seam® in 22-24 gauge, Nu-Wave® Corrugated in 18-29 gauge, Mini-V-Beam™ in 18-26 gauge, Prestige Series® in 18-24 gauge, Perception Collection® in 20-24 gauge, Select Seam® in 18-24 gauge, Span-Lok™ / SpanLok hp in 22-24 gauge, SpanSeam™ in 18-24 gauge, PBR in 22-26ga, U-Panel in 20-29 gauge, C 1.4-32 (CF 1 3/8") in 18-26 gauge, CP-32 in 18-26 gauge, and 41- 9/16" Standard Perforated 33% in 26ga.

Section 1: Summary

Nested Method / Material Threshold

CONTENT INVENTORY

<p>Inventory Reporting Format</p> <p><input checked="" type="radio"/> Nested Materials Method <input type="radio"/> Basic Method</p> <p>Threshold Disclosed Per</p> <p><input checked="" type="radio"/> Material <input type="radio"/> Product</p>	<p>Threshold Level</p> <p><input checked="" type="radio"/> 100 ppm <input type="radio"/> 1,000 ppm <input type="radio"/> Per GHS SDS <input type="radio"/> Other</p>	<p>Residuals/Impurities</p> <p>Considered in 2 of 2 Materials</p> <p>Explanation(s) provided for Residuals/Impurities?</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>All Substances Above the Threshold Indicated Are:</i></p> <p>Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No <i>% weight and role provided for all substances.</i></p> <p>Screened <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No <i>All substances screened using Priority Hazard Lists with results disclosed.</i></p> <p>Identified <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No <i>All substances disclosed by Name (Specific or Generic) and Identifier.</i></p>
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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
COLD ROLLED STEEL [IRON (IRON) LT-P1 | END MANGANESE (MANGANESE) LT-P1 | END | MUL | REP CARBON (CARBON) LT-UNK PHOSPHORUS (PHOSPHORUS) BM-2 | MAM | PHY ALUMINUM (ALUMINUM) BM-1 | END | RES | PHY SULFUR (SULFUR) LT-UNK | SKI SILICON (SILICON) LT-UNK NICKEL LT-1 | CAN | RES | MUL | SKI | MAM CHROMIUM LT-P1 | END | SKI | RES] ZINCALUME® METALLIC COATING [ALUMINUM BM-1 | END | RES | PHY ZINC LT-P1 | END | MUL | AQU | PHY SILICON LT-UNK]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

ZINCALUME Plus is finished with a thin, clear, organic resin coating. This coating is below the 100ppm reporting threshold and therefore not detailed in Section 2. The coating aids in fabrication of final parts by providing lubricity and prevents finger printing during installation. All residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 100 ppm threshold.

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) - Not Applicable

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

<p>Third Party Verified?</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p>PREPARER: Self-Prepared VERIFIER: SCS Global Services VERIFICATION #: qGE-2485</p>	<p>SCREENING DATE: 2021-09-27 PUBLISHED DATE: 2022-03-07 EXPIRY DATE: 2024-09-27</p>
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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

COLD ROLLED STEEL

#: 94.5990 - 98.3000

MATERIAL THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Metal

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were considered based on direct testing conducted by steel suppliers via atomic absorption. Per best practice guidelines residuals and impurities above the reporting threshold of 100ppm with a GS score of BM-1, LT-1, LT-P1 or NoGS have been reported in the content inventory. Other residuals and impurities that might be present above 100ppm are Copper (0.1540% max), Molybdenum (0.0500% max), Tin (0.0500%) and Titanium (0.0100% max). Vanadium and/or Columbium may be present as residuals in steel below the inventory reporting threshold of 100ppm.

OTHER MATERIAL NOTES: The weight contribution of the cold rolled steel will vary depending on the thickness of the steel and the weight of the aluminum/zinc metallic coating. See Section 5 for additional details.

IRON (IRON)

ID: 7439-89-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2021-09-27 23:42:10

#: 98.1400 - 99.0000

GS: LT-P1

RC: UNK

NANO: No

SUBSTANCE ROLE: Structure component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

END

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: Percentage is a range due to variations between specified steel chemistries and grades.

MANGANESE (MANGANESE)

ID: 7439-96-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2021-09-27 23:42:11

#: 0.1500 - 1.2000

GS: LT-P1

RC: UNK

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

END

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

MUL

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

REP

GHS - Japan

H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]

SUBSTANCE NOTES: Percentage is a range due to variations between specified steel chemistries and grades.

CARBON (CARBON)

ID: 7440-44-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2021-09-27 23:42:12

#: 0.0200 - 0.2400

GS: LT-UNK

RC: UNK

NANO: No

SUBSTANCE ROLE: Alloy element

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

SUBSTANCE NOTES: Percentage is a range due to variations between specified steel chemistries and grades.

PHOSPHORUS (PHOSPHORUS)

ID: 7723-14-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-27 23:42:12		
%: 0.0000 - 0.0300	GS: BM-2	RC: UNK	NANO: No	SUBSTANCE ROLE: Alloy element

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
PHY	EU - GHS (H-Statements)	H228 - Flammable solid [Flammable solids - Category 1 or 2]

SUBSTANCE NOTES: Percentage is a range to due to variations between specified steel chemistries and grades. Priority List of Hazardous Substances (rank 19).

ALUMINUM (ALUMINUM)

ID: 7429-90-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-27 23:42:13		
%: 0.0000 - 0.1000	GS: BM-1	RC: UNK	NANO: No	SUBSTANCE ROLE: Alloy element

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHY	EU - GHS (H-Statements)	H228 - Flammable solid [Flammable solids - Category 1 or 2]
PHY	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases [Substances and mixtures which, in contact with water, emit flammable gases - Category 2 or 3]

SUBSTANCE NOTES: Percentage is a range due to variations between specified steel chemistries and grades. The Priority List of Hazardous Substances (rank 179).

SULFUR (SULFUR)

ID: 7704-34-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-27 23:42:13		
%: 0.0000 - 0.0400	GS: LT-UNK	RC: UNK	NANO: No	SUBSTANCE ROLE: Alloy element

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]

SUBSTANCE NOTES: Percentage is a range due to variations between specified steel chemistries and grades.

SILICON (SILICON)

ID: 7440-21-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-27 23:42:14**

#: **0.0000 - 0.2540** GS: **LT-UNK** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Structure component**

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

SUBSTANCE NOTES: Percentage is a range due to variations between specified steel chemistries and grades.

NICKEL

ID: **7440-02-0**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-27 23:42:14**

#: **Impurity/Residual** GS: **LT-1** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	CA EPA - Prop 65	Carcinogen
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen
CAN	IARC	Group 2b - Possibly carcinogenic to humans
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
MAM	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]

SUBSTANCE NOTES: Percentage is a range due to variations between specified steel chemistries and grades.

CHROMIUM

ID: **7440-47-3**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-27 23:42:15**

#: **Impurity/Residual** GS: **LT-P1** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Percentage is a range due to variations between specified steel chemistries and grades.

ZINCALUME® METALLIC COATING

#: 1.7000 - 5.4000

MATERIAL THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Metal

RESIDUALS AND IMPURITIES NOTES: All residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 100 ppm threshold.

OTHER MATERIAL NOTES: Zinc and aluminum metallic alloy coating (ZINCALUME® is Steelscape LLCs trade name for Galvalume®) applied to cold rolled steel through the hot dip galvanization process per the latest version of ASTM A792 Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy Coated by the Hot Dip Process. The weight contribution of the metallic coating will vary depending on thickness of the cold rolled steel and the coating weight of zinc applied. See Section 5 for additional details.

ALUMINUM

ID: 7429-90-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-09-27 23:42:10

#: 51.0000 - 58.0000 GS: BM-1 RC: UNK NANO: No SUBSTANCE ROLE: Corrosion inhibitor

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHY	EU - GHS (H-Statements)	H228 - Flammable solid [Flammable solids - Category 1 or 2]
PHY	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases [Substances and mixtures which, in contact with water, emit flammable gases - Category 2 or 3]

SUBSTANCE NOTES: The Priority List of Hazardous Substances (rank 179)

ZINC

ID: 7440-66-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-09-27 23:42:11

#: 40.0000 - 48.0000 GS: LT-P1 RC: UNK NANO: No SUBSTANCE ROLE: Corrosion inhibitor

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
PHY	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
PHY	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously [Substances and mixtures which, in contact with water, emit flammable gases - Category 1]

SUBSTANCE NOTES: Priority List of Hazardous Substances (rank 75)

SILICON

ID: 7440-21-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-09-27 23:42:11	
%: 1.3000 - 1.9000	GS: LT-UNK	
RC: UNK	NANO: No	
SUBSTANCE ROLE: Corrosion inhibitor		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

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

CDPH Standard Method V1.2 (Section 01350/CHPS) - Not Applicable

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2019-04-

EXPIRY DATE:

CERTIFIER OR LAB: NA

APPLICABLE FACILITIES: NA

04

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: CDPH Standard V1.2 (Section 01350/CHPS)- Not Applicable

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.

MISC ACCESSORIES OR FASTENERS

HPD URL: No HPD Available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

A wide variety of fastener and accessory products can be used in conjunction with this product. These are not manufactured by AEP Span and will depend on the preferences of the field installer.

ACRYL-R SM5430 ROOF SEALANT

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

In-line sealant can be applied to some panel profiles. This is a third party manufactured product by ITW Polymers (ACRYL-R SM5430 Roof Sealant). Product mass is approximately 0.059lb per ft when used. This results in a product weight contribution of between 3% to 10%.

Section 5: General Notes

Residuals reported per chemical analysis by steel suppliers.

The weight contribution of cold rolled steel, metallic coating and resin coating will vary based on the gauge (thickness) of the cold rolled steel, weight of the metallic coating specified and the surface coating weight.

All figures referenced in this guide reflect unpainted 29 Ga material with a Zincolume® Plus coating (a combination of 94.599% steel and 5.40% metallic coating). This reflects the lightest standard offer base steel and heaviest metallic coating combination. All metallic AEP Products have a contribution ratio of steel between 94.599% -98.30% and a metallic coating range of 1.70-5.40%.

The "Plus" portion of ZINCALUME Plus is a thin, clear, organic resin coating. It is applied at .0003 - .007% in the final product and is therefore below the 100ppm reporting threshold. The final weight contribution is dependent on the cold rolled steel thickness and weight of metallic coating applied.

This HPD covers the assessment of the following AEP Span Products: 22-3/4", 30-3/16", 37", 37-1/2", 42-15/16", 46", 48", 48-3/8" Flat Sheets in 18-29 gauge, Box Rib™/Reversed Box Rib in 18-29 gauge, Design Span® hp 12", 16", 17", 18" in 22-26 gauge, Flex Series in 20-24 gauge, Flush Panel in 20-26 gauge, HR-36® /Reverse HR-36 in 18-29 gauge, Narrow Batten Select Seam® in 22-24 gauge, Wide Batten Select Seam® in 22-24 gauge, Nu-Wave® Corrugated in 18-29 gauge, Mini-V-Beam™ in 18-26 gauge, Prestige Series® in 18-24 gauge, Perception Collection® in 20-24 gauge, Select Seam® in 18-24 gauge, Span-Lok™ / Span-Lok hp in 22-24 gauge, SpanSeam™ in 18-24 gauge, Super-Span in 20-29ga, TW-12 in 20-24 gauge, U-Panel in 20-29 gauge, C 1.4-32 (CF 1 3/8") in 18-26 gauge, CP-32 in 18-26 gauge, and 41- 9/16" Standard Perforated 33% in 26ga.

MANUFACTURER INFORMATION

MANUFACTURER: ASC Profiles
ADDRESS: 2110 Enterprise Blvd
 West Sacramento CA 95691, US
WEBSITE: www.aepspan.com

CONTACT NAME: Michelle Vondran
TITLE: Technical Manager
PHONE: 909-484-4623
EMAIL: michelle.vondran@bluescope.us

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	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.)
BM-2 Benchmark 2 (use but search for safer substitutes)	NoGS No GreenScreen.
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)	

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.