

**HPD UNIQUE IDENTIFIER:** 29830

**CLASSIFICATION:** 09 69 33 Low-Profile Fixed Height Access Flooring

**PRODUCT DESCRIPTION:** The industry leading fixed height low profile floor for over 30 years. Known for its durability and flexibility, the Cable Floor System is one of the most successful wire management systems worldwide, installed in more than 150 million square feet of space. At just 1.57" finished floor height the Cable Floor System manages cabling below the floor to organize any work area and maximize the floor to ceiling height of the space. The combination of high strength, light weight concrete and high-density plastic forms this unique floor system.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

| Inventory Reporting Format                               | Threshold Level                          | Residuals/Impurities Evaluation                               |                                                                                    |
|----------------------------------------------------------|------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------|
| <input checked="" type="radio"/> Nested Materials Method | <input checked="" type="radio"/> 100 ppm | <input type="radio"/> Completed                               | <i>For all contents above the threshold, the manufacturer has:</i>                 |
| <input type="radio"/> Basic Method                       | <input type="radio"/> 1,000 ppm          | <input checked="" type="radio"/> Not Completed                | <b>Characterized</b> <input checked="" type="radio"/> Yes <input type="radio"/> No |
|                                                          | <input type="radio"/> Per GHS SDS        |                                                               | <i>Provided weight and role.</i>                                                   |
| <b>Threshold Disclosed Per</b>                           | <input type="radio"/> Other              | <b>Explanation(s) provided for Residuals/Impurities?</b>      | <b>Screened</b> <input checked="" type="radio"/> Yes <input type="radio"/> No      |
| <input type="radio"/> Material                           |                                          | <input checked="" type="radio"/> Yes <input type="radio"/> No | <i>Provided screening results using HPDC-approved methods.</i>                     |
| <input checked="" type="radio"/> Product                 |                                          |                                                               | <b>Identified</b> <input type="radio"/> Yes <input checked="" type="radio"/> No    |
|                                                          |                                          |                                                               | <i>Provided name and CAS RN or other identifier.</i>                               |

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.

**NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY**

**GREENSCREEN SCORE | HAZARD TYPE**

**BASE 40 SYSTEM | CEMENT DUST LT-P1 | CAN | END | | MAM STEEL NoGS WATER BM-4 PERLITE LT-UNK | EYE | POLYVINYL CHLORIDE (PVC) (PRIMARY CASRN IS 9002-86-2) LT-P1 | | MAM ETHYLENEVINYLACETATE COPOLYMER LT-UNK | CATION COATING Not Screened POLYETHYLENE LT-UNK | POLYETHYLENE TEREPHTHALATE (PET) LT-P1 | BUTYL ACRYLATE LT-UNK | SKI | EYE | MAM | REP | AQU POLYPROPYLENE LT-P1 | SC:GEOMAT | BORDER 40 SYSTEM | CEMENT DUST LT-P1 | CAN | END | | MAM WATER BM-4 STEEL NoGS POLYVINYL CHLORIDE-ACRYLIC COPOLYMER LT-UNK | PERLITE LT-UNK | EYE | POLYVINYL CHLORIDE (PVC) (PRIMARY CASRN IS 9002-86-2) LT-P1 | | MAM UNDISCLOSED Not Screened CATION COATING Not Screened SC:GEOMAT | FEED-IN 40 SYSTEM | STEEL NoGS CEMENT DUST LT-P1 | CAN | END | | MAM WATER BM-4 POLYVINYL CHLORIDE (PVC) (PRIMARY CASRN IS 9002-86-2) LT-P1 | | MAM POLYVINYL CHLORIDE-ACRYLIC COPOLYMER LT-UNK | CATION COATING Not Screened PERLITE LT-UNK | EYE | UNDISCLOSED NoGS POLYETHYLENE TEREPHTHALATE (PET) LT-P1 | 2-PROPENOIC ACID, 2-METHYL-, 2-HYDROXYETHYL ESTER, POLYMER WITH 2-ETHYLHEXYL 2-PROPENOATE AND METHYL 2-METHYL-2-PROPENOATE LT-UNK | SC:GEOMAT | UNDER SHEET | POLYPROPYLENE LT-P1 | TITANIUM DIOXIDE LT-1 | CAN | END | | MAM | GLUE FOR UNDER SHEET [ ]**

Number of Greenscreen BM-4/BM3 contents ... 3

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1, LT-1

Nanomaterial ... No

**INVENTORY AND SCREENING NOTES:**

Special Conditions applied: [GeologicalMaterial]

Special Conditions applied: [Geological Material] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

**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

Third Party Verified?

☐ Yes

☒ No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2022-08-31

PUBLISHED DATE: 2022-09-09

EXPIRY DATE: 2025-08-31

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 2.3, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-3-standard](http://www.hpd-collaborative.org/hpd-2-3-standard)

|                                                                                   |  |                                                   |                               |
|-----------------------------------------------------------------------------------|--|---------------------------------------------------|-------------------------------|
| BASE 40 SYSTEM                                                                    |  | %: 91.9175                                        |                               |
| PRODUCT THRESHOLD: 100 ppm                                                        |  | RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No | MATERIAL TYPE: Other: Not Set |
| RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities Evaluation Not Completed |  |                                                   |                               |
| OTHER MATERIAL NOTES:                                                             |  |                                                   |                               |

CEMENT DUSTID: 65997-15-1

|                                                                  |                                       |                                                  |                                                                                                                                                           |                               |
|------------------------------------------------------------------|---------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                       | HAZARD SCREENING DATE: <b>2022-08-31 6:17:06</b> |                                                                                                                                                           |                               |
| %: <b>31.5530</b>                                                | GreenScreen: <b>LT-P1</b>             | RC: <b>None</b>                                  | NANO: <b>Unknown</b>                                                                                                                                      | SUBSTANCE ROLE: <b>Binder</b> |
| HAZARD TYPE                                                      | AGENCY AND LIST TITLES                |                                                  | WARNINGS                                                                                                                                                  |                               |
| CAN                                                              | MAK                                   |                                                  | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification                                                              |                               |
| END                                                              | TEDX - Potential Endocrine Disruptors |                                                  | Potential Endocrine Disruptor                                                                                                                             |                               |
|                                                                  | EC - CEPA DSL                         |                                                  | Persistent                                                                                                                                                |                               |
| MAM                                                              | GHS - Japan                           |                                                  | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |                               |
| ADDITIONAL LISTINGS                                              | AGENCY                                |                                                  | NOTIFICATION                                                                                                                                              |                               |
| None found                                                       |                                       |                                                  | No listings found on Additional Hazard Lists                                                                                                              |                               |
| SUBSTANCE NOTES:                                                 |                                       |                                                  |                                                                                                                                                           |                               |

STEELID: 12597-69-2

|                                                                  |                          |                                                  |                                                |                                            |
|------------------------------------------------------------------|--------------------------|--------------------------------------------------|------------------------------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          | HAZARD SCREENING DATE: <b>2022-08-31 6:18:35</b> |                                                |                                            |
| %: <b>26.6058</b>                                                | GreenScreen: <b>NoGS</b> | RC: <b>None</b>                                  | NANO: <b>Unknown</b>                           | SUBSTANCE ROLE: <b>Structure component</b> |
| HAZARD TYPE                                                      | AGENCY AND LIST TITLES   |                                                  | WARNINGS                                       |                                            |
| None found                                                       |                          |                                                  | No warnings found on HPD Priority Hazard Lists |                                            |
| ADDITIONAL LISTINGS                                              | AGENCY                   |                                                  | NOTIFICATION                                   |                                            |
| None found                                                       |                          |                                                  | No listings found on Additional Hazard Lists   |                                            |
| SUBSTANCE NOTES:                                                 |                          |                                                  |                                                |                                            |

WATERID: 7732-18-5

|                                                                  |                                              |                                                              |                                                |                               |
|------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------|------------------------------------------------|-------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                              | HAZARD SCREENING DATE: <b>2022-08-31 6:20:42</b>             |                                                |                               |
| %: <b>23.4996</b>                                                | GreenScreen: <b>BM-4</b>                     | RC: <b>None</b>                                              | NANO: <b>Unknown</b>                           | SUBSTANCE ROLE: <b>Binder</b> |
| HAZARD TYPE                                                      | AGENCY AND LIST TITLES                       |                                                              | WARNINGS                                       |                               |
| None found                                                       |                                              |                                                              | No warnings found on HPD Priority Hazard Lists |                               |
| ADDITIONAL LISTINGS                                              | AGENCY                                       |                                                              | NOTIFICATION                                   |                               |
| EXEMPT                                                           | European Union / European Commission (EU EC) | EU - REACH Exemptions                                        |                                                |                               |
|                                                                  |                                              | Exempted from REACH Annex IV listing due to intrinsic safety |                                                |                               |
| POSITIVE LIST                                                    | US Environmental Protection Agency (US EPA)  | US EPA - DfE SCIL                                            |                                                |                               |
|                                                                  |                                              | Green Circle - Verified Low Concern                          |                                                |                               |
| SUBSTANCE NOTES:                                                 |                                              |                                                              |                                                |                               |

SC:GEOMAT

ID: **Geological Material**

|                                                                                                                                                                                                |                                  |                |                 |                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------|-----------------|-------------------------------------------|
| HAZARD DATA SOURCE: <a href="#">HPDC Special Conditions Policy</a>                                                                                                                             |                                  |                |                 |                                           |
| %: <b>4.4372</b>                                                                                                                                                                               | GreenScreen: <b>Not Required</b> | RC: <b>UNK</b> | NANO: <b>No</b> | MATERIAL ROLE: <b>Structure component</b> |
| HAZARD TYPE                                                                                                                                                                                    | AGENCY AND LIST TITLES           |                | WARNINGS        |                                           |
| Hazard Screening is not applicable to this Special Condition                                                                                                                                   |                                  |                |                 |                                           |
| INGREDIENT DESCRIPTION AND COMPOSITION: SiO2 at 75 - 78%, Al2O3 at 11 - 14%, Fe2O3 at 1 - 2, CaO at 1 - 2%, MgO at 0.05 - 0.12%, K2O at 1.5 - 3.5%, Na2O at 1.8 - 3.2%, Ig. loss at 0.5 - 1.3% |                                  |                |                 |                                           |
| COUNTRY OF ORIGIN: Japan                                                                                                                                                                       |                                  |                |                 |                                           |
| RADIOACTIVE ELEMENTS: According to supplier provided information and/or internal testing, it is determined that no radioactive elements are found in this material.                            |                                  |                |                 |                                           |
| POTENTIAL PRESENCE OF TOXIC METALS: According to supplier provided information and/or internal testing, it is determined that no toxic metals are found in this material.                      |                                  |                |                 |                                           |
| MATERIAL CONTENT NOTES: SpecialConditionApplied:Geological Material<br>Also known as Shirasu Balloons                                                                                          |                                  |                |                 |                                           |

PERLITE

ID: **93763-70-3**

|                                                                  |                            |                                                  |                           |                                            |
|------------------------------------------------------------------|----------------------------|--------------------------------------------------|---------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            | HAZARD SCREENING DATE: <b>2022-08-31 6:30:45</b> |                           |                                            |
| ?: <b>3.2260</b>                                                 | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b>                                  | NANO: <b>Unknown</b>      | SUBSTANCE ROLE: <b>Structure component</b> |
| HAZARD TYPE                                                      | AGENCY AND LIST TITLES     |                                                  | WARNINGS                  |                                            |
| EYE                                                              | GHS - New Zealand          |                                                  | Eye irritation category 2 |                                            |
|                                                                  | EC - CEPA DSL              |                                                  | Persistent                |                                            |

| ADDITIONAL LISTINGS | AGENCY                                      | NOTIFICATION                                                 |
|---------------------|---------------------------------------------|--------------------------------------------------------------|
| POSITIVE LIST       | US Environmental Protection Agency (US EPA) | US EPA - DfE SCIL<br><br>Green Circle - Verified Low Concern |
| SUBSTANCE NOTES:    |                                             |                                                              |

POLYVINYL CHLORIDE (PVC) (PRIMARY CASRN IS 9002-86-2)

ID: 93050-82-9

|                                                                      |                                                         |                                            |                                                                                                                                                           |                                     |
|----------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| HAZARD DATA SOURCE:  Pharos Chemical and Materials Library           |                                                         | HAZARD SCREENING DATE:  2022-08-31 6:36:32 |                                                                                                                                                           |                                     |
| %: 2.2945                                                            | GreenScreen: LT-P1                                      | RC: UNK                                    | NANO: No                                                                                                                                                  | SUBSTANCE ROLE: Structure component |
| HAZARD TYPE                                                          | AGENCY AND LIST TITLES                                  |                                            | WARNINGS                                                                                                                                                  |                                     |
|                                                                      | EC - CEPA DSL                                           |                                            | Persistent                                                                                                                                                |                                     |
| MAM                                                                  | GHS - Japan                                             |                                            | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |                                     |
| ADDITIONAL LISTINGS                                                  | AGENCY                                                  |                                            | NOTIFICATION                                                                                                                                              |                                     |
| RESTRICTED LIST                                                      | Perkins+Will (P+W)                                      |                                            | P&W - Precautionary List                                                                                                                                  |                                     |
|                                                                      |                                                         |                                            | Precautionary list of substances recommended for avoidance                                                                                                |                                     |
| RESTRICTED LIST                                                      | Cradle to Cradle Products Innovation Institute (C2CPII) |                                            | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022                                                               |                                     |
|                                                                      |                                                         |                                            | Core Restrictions                                                                                                                                         |                                     |
| RESTRICTED LIST                                                      | International Living Future Institute (ILFI)            |                                            | Living Building Challenge 4.0 - Red List of Materials & Chemicals                                                                                         |                                     |
|                                                                      |                                                         |                                            | Red List substances to avoid in Living Building Challenge V4.0 projects                                                                                   |                                     |
| RESTRICTED LIST                                                      | International Living Future Institute (ILFI)            |                                            | Living Building Challenge 4.0 - Red List of Materials & Chemicals                                                                                         |                                     |
|                                                                      |                                                         |                                            | Priority for Inclusion in the Living Building Challenge Red List                                                                                          |                                     |
| SUBSTANCE NOTES: Substance is the Formed PVC Box for the Base Mat 40 |                                                         |                                            |                                                                                                                                                           |                                     |

ETHYLENEVINYLACETATE COPOLYMER

ID: 24937-78-8

| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                        | HAZARD SCREENING DATE: 2022-08-31 6:38:00 |               |                                     |
|-----------------------------------------------------------|------------------------|-------------------------------------------|---------------|-------------------------------------|
| %: 0.1048                                                 | GreenScreen: LT-UNK    | RC: UNK                                   | NANO: Unknown | SUBSTANCE ROLE: Structure component |
| HAZARD TYPE                                               | AGENCY AND LIST TITLES |                                           | WARNINGS      |                                     |
|                                                           | EC - CEPA DSL          |                                           | Persistent    |                                     |

| ADDITIONAL LISTINGS                                                                                                                                                                                                                                                                                                     | AGENCY                                    | NOTIFICATION                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------|
| None found                                                                                                                                                                                                                                                                                                              |                                           | No listings found on Additional Hazard Lists          |
| SUBSTANCE NOTES:                                                                                                                                                                                                                                                                                                        |                                           |                                                       |
| CATION COATING                                                                                                                                                                                                                                                                                                          |                                           | ID: Not Registered                                    |
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library                                                                                                                                                                                                                                                               |                                           | HAZARD SCREENING DATE: Not Screened                   |
| %: 0.0917                                                                                                                                                                                                                                                                                                               | GreenScreen: Not Screened                 | RC: UNK NANO: Unknown SUBSTANCE ROLE: Polymer species |
| HAZARD TYPE                                                                                                                                                                                                                                                                                                             | AGENCY AND LIST TITLES                    | WARNINGS                                              |
|                                                                                                                                                                                                                                                                                                                         | Hazard Screening not performed            |                                                       |
| ADDITIONAL LISTINGS                                                                                                                                                                                                                                                                                                     | AGENCY                                    | NOTIFICATION                                          |
|                                                                                                                                                                                                                                                                                                                         | Additional Hazard Screening not performed |                                                       |
| SUBSTANCE NOTES: The CASRN is not registered for this substance but the following CASRNs represent the Cation Coating for the Steel Cover; 107-98-2, 111-76-2, 1333-86-4, 818-08-6, 112-34-5, 41593-38-8 and 13463-67-7. The GreenScreen List Translator score of LT-P1, LT-1, BM-2, LT-UNK is for the CASRNs provided. |                                           |                                                       |

|                                                           |                        |                                                            |
|-----------------------------------------------------------|------------------------|------------------------------------------------------------|
| POLYETHYLENE                                              |                        | ID: 9002-88-4                                              |
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                        | HAZARD SCREENING DATE: 2022-08-31 6:46:09                  |
| %: 0.0892                                                 | GreenScreen: LT-UNK    | RC: None NANO: Unknown SUBSTANCE ROLE: Structure component |
| HAZARD TYPE                                               | AGENCY AND LIST TITLES | WARNINGS                                                   |
|                                                           | EC - CEPA DSL          | Persistent                                                 |
| ADDITIONAL LISTINGS                                       | AGENCY                 | NOTIFICATION                                               |
| None found                                                |                        | No listings found on Additional Hazard Lists               |
| SUBSTANCE NOTES:                                          |                        |                                                            |

|                                                           |                        |                                                      |
|-----------------------------------------------------------|------------------------|------------------------------------------------------|
| POLYETHYLENE TEREPHTHALATE (PET)                          |                        | ID: 25038-59-9                                       |
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                        | HAZARD SCREENING DATE: 2022-08-31 6:47:28            |
| %: 0.0111                                                 | GreenScreen: LT-P1     | RC: UNK NANO: No SUBSTANCE ROLE: Structure component |
| HAZARD TYPE                                               | AGENCY AND LIST TITLES | WARNINGS                                             |
|                                                           | EC - CEPA DSL          | Persistent                                           |
| ADDITIONAL LISTINGS                                       | AGENCY                 | NOTIFICATION                                         |
| None found                                                |                        | No listings found on Additional Hazard Lists         |
| SUBSTANCE NOTES:                                          |                        |                                                      |

HAZARD DATA SOURCE:   Pharos Chemical and Materials Library

HAZARD SCREENING DATE:   2022-08-31 6:49:16

%: 0.0034

GreenScreen: LT-UNK

RC: UNK

NANO: No

SUBSTANCE ROLE: Adhesive

| HAZARD TYPE         | AGENCY AND LIST TITLES                    | WARNINGS                                                                                                                                                  |
|---------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| SKI                 | MAK                                       | Sensitizing Substance Sh - Danger of skin sensitization                                                                                                   |
| SKI                 | EU - GHS (H-Statements) Annex 6 Table 3-1 | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]                                                                                    |
| EYE                 | EU - GHS (H-Statements) Annex 6 Table 3-1 | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]                                                                    |
| SKI                 | GHS - New Zealand                         | Skin irritation category 2                                                                                                                                |
| EYE                 | GHS - New Zealand                         | Eye irritation category 2                                                                                                                                 |
| SKI                 | GHS - Australia                           | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]                                                                                    |
| EYE                 | GHS - Australia                           | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]                                                                    |
| MAM                 | GHS - Japan                               | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| MAM                 | GHS - Japan                               | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]                                          |
| MAM                 | GHS - Japan                               | H331 - Toxic if inhaled [Acute toxicity (inhalation: vapor) - Category 3]                                                                                 |
| MAM                 | GHS - New Zealand                         | Acute inhalation toxicity category 3                                                                                                                      |
| SKI                 | GHS - Japan                               | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]                                                                                  |
| SKI                 | GHS - New Zealand                         | Skin sensitisation category 1                                                                                                                             |
| SKI                 | GHS - Japan                               | H317 - May cause an allergic skin reaction [Skin Sensitization - Category 1A]                                                                             |
| REP                 | GHS - New Zealand                         | Reproductive toxicity category 2                                                                                                                          |
| AQU                 | GHS - Japan                               | H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]                                                                  |
| MAM                 | Québec CSST - WHMIS 1988                  | Class D1A - Very toxic material causing immediate and serious toxic effects                                                                               |
| EYE                 | GHS - Japan                               | H319 - Causes serious eye irritation [Serious eye damage / eye irritation - Category 2A]                                                                  |
| ADDITIONAL LISTINGS | AGENCY                                    | NOTIFICATION                                                                                                                                              |
| RESTRICTED LIST     | Perkins+Will (P+W)                        | P&W - Precautionary List                                                                                                                                  |
|                     |                                           | Watch List                                                                                                                                                |

SUBSTANCE NOTES:

|                                                                  |                                             |                                                  |                                     |                                            |
|------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------|-------------------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                             | HAZARD SCREENING DATE: <b>2022-08-31 6:51:00</b> |                                     |                                            |
| %: <b>0.0012</b>                                                 | GreenScreen: <b>LT-P1</b>                   | RC: <b>UNK</b>                                   | NANO: <b>No</b>                     | SUBSTANCE ROLE: <b>Structure component</b> |
| HAZARD TYPE                                                      | AGENCY AND LIST TITLES                      |                                                  | WARNINGS                            |                                            |
|                                                                  | EC - CEPA DSL                               |                                                  | Persistent                          |                                            |
| ADDITIONAL LISTINGS                                              | AGENCY                                      |                                                  | NOTIFICATION                        |                                            |
| POSITIVE LIST                                                    | US Environmental Protection Agency (US EPA) |                                                  | US EPA - DfE SCIL                   |                                            |
|                                                                  |                                             |                                                  | Green Circle - Verified Low Concern |                                            |
| SUBSTANCE NOTES:                                                 |                                             |                                                  |                                     |                                            |

**BORDER 40 SYSTEM** %: **7.5891**

|                                                                                   |                                                   |                               |
|-----------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------|
| PRODUCT THRESHOLD: 100 ppm                                                        | RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No | MATERIAL TYPE: Other: Not Set |
| RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities Evaluation Not Completed |                                                   |                               |
| OTHER MATERIAL NOTES:                                                             |                                                   |                               |

| CEMENT DUST                                               |                                       |                                              |                                                                                                                                                           | ID: 65997-15-1         |
|-----------------------------------------------------------|---------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                                       | HAZARD SCREENING DATE: 2022-08-31 6:54:02    |                                                                                                                                                           |                        |
| %: 2.8792                                                 | GreenScreen: LT-P1                    | RC: UNK                                      | NANO: No                                                                                                                                                  | SUBSTANCE ROLE: Binder |
| HAZARD TYPE                                               | AGENCY AND LIST TITLES                |                                              | WARNINGS                                                                                                                                                  |                        |
| CAN                                                       | MAK                                   |                                              | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification                                                              |                        |
| END                                                       | TEDX - Potential Endocrine Disruptors |                                              | Potential Endocrine Disruptor                                                                                                                             |                        |
|                                                           | EC - CEPA DSL                         |                                              | Persistent                                                                                                                                                |                        |
| MAM                                                       | GHS - Japan                           |                                              | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |                        |
| ADDITIONAL LISTINGS                                       | AGENCY                                |                                              | NOTIFICATION                                                                                                                                              |                        |
| None found                                                |                                       | No listings found on Additional Hazard Lists |                                                                                                                                                           |                        |
| SUBSTANCE NOTES:                                          |                                       |                                              |                                                                                                                                                           |                        |

|                                                                  |                          |                                                  |                                                |                               |
|------------------------------------------------------------------|--------------------------|--------------------------------------------------|------------------------------------------------|-------------------------------|
| <b>WATER</b>                                                     |                          |                                                  |                                                | ID: <b>7732-18-5</b>          |
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          | HAZARD SCREENING DATE: <b>2022-08-31 6:55:16</b> |                                                |                               |
| %: <b>2.1914</b>                                                 | GreenScreen: <b>BM-4</b> | RC: <b>UNK</b>                                   | NANO: <b>No</b>                                | SUBSTANCE ROLE: <b>Binder</b> |
| HAZARD TYPE                                                      | AGENCY AND LIST TITLES   |                                                  | WARNINGS                                       |                               |
| None found                                                       |                          |                                                  | No warnings found on HPD Priority Hazard Lists |                               |

| ADDITIONAL LISTINGS | AGENCY                                       | NOTIFICATION                                                                              |
|---------------------|----------------------------------------------|-------------------------------------------------------------------------------------------|
| EXEMPT              | European Union / European Commission (EU EC) | EU - REACH Exemptions<br><br>Exempted from REACH Annex IV listing due to intrinsic safety |
| POSITIVE LIST       | US Environmental Protection Agency (US EPA)  | US EPA - DfE SCIL<br><br>Green Circle - Verified Low Concern                              |
| SUBSTANCE NOTES:    |                                              |                                                                                           |

STEEL

ID: 12597-69-2

|                                                                  |                          |                                                  |                                                |                                            |
|------------------------------------------------------------------|--------------------------|--------------------------------------------------|------------------------------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          | HAZARD SCREENING DATE: <b>2022-08-31 6:56:47</b> |                                                |                                            |
| %: <b>1.2344</b>                                                 | GreenScreen: <b>NoGS</b> | RC: <b>UNK</b>                                   | NANO: <b>No</b>                                | SUBSTANCE ROLE: <b>Structure component</b> |
| HAZARD TYPE                                                      | AGENCY AND LIST TITLES   |                                                  | WARNINGS                                       |                                            |
| None found                                                       |                          |                                                  | No warnings found on HPD Priority Hazard Lists |                                            |
| ADDITIONAL LISTINGS                                              | AGENCY                   |                                                  | NOTIFICATION                                   |                                            |
| None found                                                       |                          |                                                  | No listings found on Additional Hazard Lists   |                                            |
| SUBSTANCE NOTES:                                                 |                          |                                                  |                                                |                                            |

POLYVINYL CHLORIDE-ACRYLIC COPOLYMER

ID: 25702-80-1

|                                                                                      |                                                          |                                                  |                                                                                             |                                        |
|--------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b>                     |                                                          | HAZARD SCREENING DATE: <b>2022-08-31 6:58:40</b> |                                                                                             |                                        |
| %: <b>0.4725</b>                                                                     | GreenScreen: <b>LT-UNK</b>                               | RC: <b>UNK</b>                                   | NANO: <b>No</b>                                                                             | SUBSTANCE ROLE: <b>Polymer species</b> |
| HAZARD TYPE                                                                          | AGENCY AND LIST TITLES                                   |                                                  | WARNINGS                                                                                    |                                        |
|                                                                                      | EC - CEPA DSL                                            |                                                  | Persistent                                                                                  |                                        |
| ADDITIONAL LISTINGS                                                                  | AGENCY                                                   |                                                  | NOTIFICATION                                                                                |                                        |
| RESTRICTED LIST                                                                      | Perkins+Will (P+W)                                       |                                                  | P&W - Precautionary List                                                                    |                                        |
|                                                                                      |                                                          |                                                  | Watch List                                                                                  |                                        |
| RESTRICTED LIST                                                                      | Cradle to Cradle Products Innovation Institute (C2CP II) |                                                  | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 |                                        |
|                                                                                      |                                                          |                                                  | Core Restrictions                                                                           |                                        |
| SUBSTANCE NOTES: Substance is the PVC Sheet (Border Sheet) for the Border Mat 40 SC: |                                                          |                                                  |                                                                                             |                                        |

SC:GEOMAT

ID: Geological Material

|                                                           |                                  |                |                 |                                           |
|-----------------------------------------------------------|----------------------------------|----------------|-----------------|-------------------------------------------|
| HAZARD DATA SOURCE: <b>HPDC Special Conditions Policy</b> |                                  |                |                 |                                           |
| %: <b>0.3253</b>                                          | GreenScreen: <b>Not Required</b> | RC: <b>UNK</b> | NANO: <b>No</b> | MATERIAL ROLE: <b>Structure component</b> |

| HAZARD TYPE                                                                                                                                                                                    | AGENCY AND LIST TITLES | WARNINGS |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------|
| Hazard Screening is not applicable to this Special Condition                                                                                                                                   |                        |          |
| INGREDIENT DESCRIPTION AND COMPOSITION: SiO2 at 75 - 78%, Al2O3 at 11 - 14%, Fe2O3 at 1 - 2, CaO at 1 - 2%, MgO at 0.05 - 0.12%, K2O at 1.5 - 3.5%, Na2O at 1.8 - 3.2%, Ig. loss at 0.5 - 1.3% |                        |          |
| COUNTRY OF ORIGIN: Japan                                                                                                                                                                       |                        |          |
| RADIOACTIVE ELEMENTS: According to supplier provided information and/or internal testing, it is determined that no radioactive elements are found in this material.                            |                        |          |
| POTENTIAL PRESENCE OF TOXIC METALS: According to supplier provided information and/or internal testing, it is determined that no toxic metals are found in this material.                      |                        |          |
| MATERIAL CONTENT NOTES: SpecialConditionApplied:Geological Material<br>Also known as Shirasu Balloons                                                                                          |                        |          |

PERLITE

ID: 93763-70-3

|                                                                  |                                             |                                                  |                                     |                                            |
|------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------|-------------------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                             | HAZARD SCREENING DATE: <b>2022-08-31 7:05:56</b> |                                     |                                            |
| %: <b>0.2914</b>                                                 | GreenScreen: <b>LT-UNK</b>                  | RC: <b>UNK</b>                                   | NANO: <b>No</b>                     | SUBSTANCE ROLE: <b>Structure component</b> |
| HAZARD TYPE                                                      | AGENCY AND LIST TITLES                      |                                                  | WARNINGS                            |                                            |
| EYE                                                              | GHS - New Zealand                           |                                                  | Eye irritation category 2           |                                            |
|                                                                  | EC - CEPA DSL                               |                                                  | Persistent                          |                                            |
| ADDITIONAL LISTINGS                                              | AGENCY                                      |                                                  | NOTIFICATION                        |                                            |
| POSITIVE LIST                                                    | US Environmental Protection Agency (US EPA) |                                                  | US EPA - DfE SCIL                   |                                            |
|                                                                  |                                             |                                                  | Green Circle - Verified Low Concern |                                            |
| SUBSTANCE NOTES:                                                 |                                             |                                                  |                                     |                                            |

POLYVINYL CHLORIDE (PVC) (PRIMARY CASRN IS 9002-86-2)

ID: 93050-82-9

|                                                           |                        |                                                                                                                                                           |          |                                     |
|-----------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                        | HAZARD SCREENING DATE: 2022-08-31 7:07:58                                                                                                                 |          |                                     |
| %: 0.1547                                                 | GreenScreen: LT-P1     | RC: UNK                                                                                                                                                   | NANO: No | SUBSTANCE ROLE: Structure component |
| HAZARD TYPE                                               | AGENCY AND LIST TITLES | WARNINGS                                                                                                                                                  |          |                                     |
|                                                           | EC - CEPA DSL          | Persistent                                                                                                                                                |          |                                     |
| MAM                                                       | GHS - Japan            | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |          |                                     |

| ADDITIONAL LISTINGS | AGENCY                                                  | NOTIFICATION                                                                                                                                     |
|---------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                      | P&W - Precautionary List<br><br>Precautionary list of substances recommended for avoidance                                                       |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPll) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Core Restrictions                             |
| RESTRICTED LIST     | International Living Future Institute (ILFI)            | Living Building Challenge 4.0 - Red List of Materials & Chemicals<br><br>Red List substances to avoid in Living Building Challenge V4.0 projects |
| RESTRICTED LIST     | International Living Future Institute (ILFI)            | Living Building Challenge 4.0 - Red List of Materials & Chemicals<br><br>Priority for Inclusion in the Living Building Challenge Red List        |

SUBSTANCE NOTES: Substance is the Formed PVC Box for the Border Mat 40

#### UNDISCLOSED

ID: **Undisclosed**

|                                                                  |                                           |                                            |                 |                                 |
|------------------------------------------------------------------|-------------------------------------------|--------------------------------------------|-----------------|---------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                           | HAZARD SCREENING DATE: <b>Not Screened</b> |                 |                                 |
| %: <b>0.0344</b>                                                 | GreenScreen: <b>Not Screened</b>          | RC: <b>UNK</b>                             | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Adhesive</b> |
| HAZARD TYPE                                                      | AGENCY AND LIST TITLES                    |                                            | WARNINGS        |                                 |
|                                                                  | Hazard Screening not performed            |                                            |                 |                                 |
| ADDITIONAL LISTINGS                                              | AGENCY                                    |                                            | NOTIFICATION    |                                 |
|                                                                  | Additional Hazard Screening not performed |                                            |                 |                                 |

SUBSTANCE NOTES: The adhesive is used for sticking and releasing PVC SHEET (BORDER SHEET) with concrete surface of BORDER MAT 40 by its purposes of installation.

#### CATION COATING

ID: **Not Registered**

|                                                                  |                                           |                                            |                 |                                        |
|------------------------------------------------------------------|-------------------------------------------|--------------------------------------------|-----------------|----------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                           | HAZARD SCREENING DATE: <b>Not Screened</b> |                 |                                        |
| %: <b>0.0059</b>                                                 | GreenScreen: <b>Not Screened</b>          | RC: <b>UNK</b>                             | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Polymer species</b> |
| HAZARD TYPE                                                      | AGENCY AND LIST TITLES                    |                                            | WARNINGS        |                                        |
|                                                                  | Hazard Screening not performed            |                                            |                 |                                        |
| ADDITIONAL LISTINGS                                              | AGENCY                                    |                                            | NOTIFICATION    |                                        |
|                                                                  | Additional Hazard Screening not performed |                                            |                 |                                        |

SUBSTANCE NOTES: The CASRN is not registered for this substance but the following CASRNs represent the Cation Coating for the Border Cover; 107-98-2, 111-76-2, 1333-86-4, 818-08-6, 112-34-5, 41593-38-8 and 13463-67-7. The GreenScreen List Translator score of LT-P1, LT-1, BM-2, LT-UNK is for the CASRNs provided.

FEED-IN 40 SYSTEM %: 0.3900

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No MATERIAL TYPE: Other: Not Set

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities Evaluation Not Completed

OTHER MATERIAL NOTES:

STEEL ID: 12597-69-2

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-08-31 7:37:33

%: 0.3341 GreenScreen: NoGS 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

ADDITIONAL LISTINGS AGENCY NOTIFICATION

None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES:

CEMENT DUST ID: 65997-15-1

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-08-31 7:38:37

%: 0.0241 GreenScreen: LT-P1 RC: UNK NANO: No SUBSTANCE ROLE: Binder

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

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

END TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

EC - CEPA DSL Persistent

MAM GHS - Japan H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]

ADDITIONAL LISTINGS AGENCY NOTIFICATION

None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES:

WATER ID: 7732-18-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-08-31 7:39:30

%: 0.0126 GreenScreen: BM-4 RC: UNK NANO: No SUBSTANCE ROLE: Binder

| HAZARD TYPE         | AGENCY AND LIST TITLES                       | WARNINGS                                                                                  |
|---------------------|----------------------------------------------|-------------------------------------------------------------------------------------------|
| None found          |                                              | No warnings found on HPD Priority Hazard Lists                                            |
| ADDITIONAL LISTINGS | AGENCY                                       | NOTIFICATION                                                                              |
| EXEMPT              | European Union / European Commission (EU EC) | EU - REACH Exemptions<br><br>Exempted from REACH Annex IV listing due to intrinsic safety |
| POSITIVE LIST       | US Environmental Protection Agency (US EPA)  | US EPA - DfE SCIL<br><br>Green Circle - Verified Low Concern                              |
| SUBSTANCE NOTES:    |                                              |                                                                                           |

POLYVINYL CHLORIDE (PVC) (PRIMARY CASRN IS 9002-86-2)

ID: 93050-82-9

|                                                                  |                                                          |                                                  |                                                                                                                                                           |                                            |
|------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                                          | HAZARD SCREENING DATE: <b>2022-08-31 7:40:54</b> |                                                                                                                                                           |                                            |
| %: <b>0.0089</b>                                                 | GreenScreen: <b>LT-P1</b>                                | RC: <b>UNK</b>                                   | NANO: <b>No</b>                                                                                                                                           | SUBSTANCE ROLE: <b>Structure component</b> |
| HAZARD TYPE                                                      | AGENCY AND LIST TITLES                                   |                                                  | WARNINGS                                                                                                                                                  |                                            |
|                                                                  | EC - CEPA DSL                                            |                                                  | Persistent                                                                                                                                                |                                            |
| MAM                                                              | GHS - Japan                                              |                                                  | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |                                            |
| ADDITIONAL LISTINGS                                              | AGENCY                                                   |                                                  | NOTIFICATION                                                                                                                                              |                                            |
| RESTRICTED LIST                                                  | Perkins+Will (P+W)                                       |                                                  | P&W - Precautionary List<br><br>Precautionary list of substances recommended for avoidance                                                                |                                            |
| RESTRICTED LIST                                                  | Cradle to Cradle Products Innovation Institute (C2CP II) |                                                  | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Core Restrictions                                      |                                            |
| RESTRICTED LIST                                                  | International Living Future Institute (ILFI)             |                                                  | Living Building Challenge 4.0 - Red List of Materials & Chemicals<br><br>Red List substances to avoid in Living Building Challenge V4.0 projects          |                                            |
| RESTRICTED LIST                                                  | International Living Future Institute (ILFI)             |                                                  | Living Building Challenge 4.0 - Red List of Materials & Chemicals<br><br>Priority for Inclusion in the Living Building Challenge Red List                 |                                            |

POLYVINYL CHLORIDE-ACRYLIC COPOLYMER

ID: 25702-80-1

|                                                                  |                            |                                                  |                 |                                        |
|------------------------------------------------------------------|----------------------------|--------------------------------------------------|-----------------|----------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            | HAZARD SCREENING DATE: <b>2022-08-31 7:42:22</b> |                 |                                        |
| %: <b>0.0027</b>                                                 | GreenScreen: <b>LT-UNK</b> | RC: <b>UNK</b>                                   | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Polymer species</b> |

| HAZARD TYPE                                                                       | AGENCY AND LIST TITLES                                  | WARNINGS                                                                                    |
|-----------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------|
|                                                                                   | EC - CEPA DSL                                           | Persistent                                                                                  |
| ADDITIONAL LISTINGS                                                               | AGENCY                                                  | NOTIFICATION                                                                                |
| RESTRICTED LIST                                                                   | Perkins+Will (P+W)                                      | P&W - Precautionary List                                                                    |
|                                                                                   |                                                         | Watch List                                                                                  |
| RESTRICTED LIST                                                                   | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 |
|                                                                                   |                                                         | Core Restrictions                                                                           |
| SUBSTANCE NOTES: Substance is the Sound Absorb Rubber Seal for the Feed-In Mat 40 |                                                         |                                                                                             |

## CATION COATING

ID: **Not Registered**

|                                                                                                                                                                                                                                                                                                                                                |                                           |                                            |                 |                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------|-----------------|----------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b>                                                                                                                                                                                                                                                                               |                                           | HAZARD SCREENING DATE: <b>Not Screened</b> |                 |                                        |
| %: <b>0.0027</b>                                                                                                                                                                                                                                                                                                                               | GreenScreen: <b>Not Screened</b>          | RC: <b>UNK</b>                             | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Polymer species</b> |
| HAZARD TYPE                                                                                                                                                                                                                                                                                                                                    | AGENCY AND LIST TITLES                    |                                            | WARNINGS        |                                        |
|                                                                                                                                                                                                                                                                                                                                                | Hazard Screening not performed            |                                            |                 |                                        |
| ADDITIONAL LISTINGS                                                                                                                                                                                                                                                                                                                            | AGENCY                                    |                                            | NOTIFICATION    |                                        |
|                                                                                                                                                                                                                                                                                                                                                | Additional Hazard Screening not performed |                                            |                 |                                        |
| SUBSTANCE NOTES: The CASRN is not registered for this substance but the following CASRNs represent the Cation Coating for the Feed-In Cover and Feed-In Channel 40L; 107-98-2, 111-76-2, 1333-86-4, 818-08-6, 112-34-5, 41593-38-8, 13463-67-7. The GreenScreen List Translator score of LT-P1, LT-1, BM-2, LT-UNK is for the CASRNs provided. |                                           |                                            |                 |                                        |

## SC:GEOMAT

ID: **Geological Material**

|                                                                                                                                                                                                |                                  |                |                 |                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------|-----------------|-------------------------------------------|
| HAZARD DATA SOURCE: <a href="#">HPDC Special Conditions Policy</a>                                                                                                                             |                                  |                |                 |                                           |
| %: <b>0.0027</b>                                                                                                                                                                               | GreenScreen: <b>Not Required</b> | RC: <b>UNK</b> | NANO: <b>No</b> | MATERIAL ROLE: <b>Structure component</b> |
| HAZARD TYPE                                                                                                                                                                                    | AGENCY AND LIST TITLES           |                | WARNINGS        |                                           |
| Hazard Screening is not applicable to this Special Condition                                                                                                                                   |                                  |                |                 |                                           |
| INGREDIENT DESCRIPTION AND COMPOSITION: SiO2 at 75 - 78%, Al2O3 at 11 - 14%, Fe2O3 at 1 - 2, CaO at 1 - 2%, MgO at 0.05 - 0.12%, K2O at 1.5 - 3.5%, Na2O at 1.8 - 3.2%, Ig. loss at 0.5 - 1.3% |                                  |                |                 |                                           |
| COUNTRY OF ORIGIN: Japan                                                                                                                                                                       |                                  |                |                 |                                           |
| RADIOACTIVE ELEMENTS: According to supplier provided information and/or internal testing, it is determined that no radioactive elements are found in this material.                            |                                  |                |                 |                                           |
| POTENTIAL PRESENCE OF TOXIC METALS: According to supplier provided information and/or internal testing, it is determined that no toxic metals are found in this material.                      |                                  |                |                 |                                           |
| MATERIAL CONTENT NOTES: SpecialConditionApplied:Geological Material<br>Also known as Shirasu Balloons                                                                                          |                                  |                |                 |                                           |

|                                                            |                                             |                                            |                                     |                                     |
|------------------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------|-------------------------------------|
| HAZARD DATA SOURCE:  Pharos Chemical and Materials Library |                                             | HAZARD SCREENING DATE:  2022-08-31 8:04:40 |                                     |                                     |
| %: 0.0024                                                  | GreenScreen: LT-UNK                         | RC: UNK                                    | NANO: No                            | SUBSTANCE ROLE: Structure component |
| HAZARD TYPE                                                | AGENCY AND LIST TITLES                      |                                            | WARNINGS                            |                                     |
| EYE                                                        | GHS - New Zealand                           |                                            | Eye irritation category 2           |                                     |
|                                                            | EC - CEPA DSL                               |                                            | Persistent                          |                                     |
| ADDITIONAL LISTINGS                                        | AGENCY                                      |                                            | NOTIFICATION                        |                                     |
| POSITIVE LIST                                              | US Environmental Protection Agency (US EPA) |                                            | US EPA - DfE SCIL                   |                                     |
|                                                            |                                             |                                            | Green Circle - Verified Low Concern |                                     |
| SUBSTANCE NOTES:                                           |                                             |                                            |                                     |                                     |

|                                                                                                                            |                        |                                           |                                                |                          |
|----------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------|------------------------------------------------|--------------------------|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library                                                                  |                        | HAZARD SCREENING DATE: 2022-08-31 8:07:08 |                                                |                          |
| %: 0.0000                                                                                                                  | GreenScreen: NoGS      | RC: UNK                                   | NANO: No                                       | SUBSTANCE ROLE: Adhesive |
| HAZARD TYPE                                                                                                                | AGENCY AND LIST TITLES |                                           | WARNINGS                                       |                          |
| None found                                                                                                                 |                        |                                           | No warnings found on HPD Priority Hazard Lists |                          |
| ADDITIONAL LISTINGS                                                                                                        | AGENCY                 |                                           | NOTIFICATION                                   |                          |
| None found                                                                                                                 |                        |                                           | No listings found on Additional Hazard Lists   |                          |
| SUBSTANCE NOTES: The adhesive is used for sticking SOUND ABSORB RUBBER SEAL with FORMED PVC BOX surface of FEED-IN MAT 40. |                        |                                           |                                                |                          |

|                                                           |                        |                                              |              |                                     |
|-----------------------------------------------------------|------------------------|----------------------------------------------|--------------|-------------------------------------|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                        | HAZARD SCREENING DATE: 2022-08-31 8:12:04    |              |                                     |
| %: 0.0000                                                 | GreenScreen: LT-P1     | RC: UNK                                      | NANO: No     | SUBSTANCE ROLE: Structure component |
| HAZARD TYPE                                               | AGENCY AND LIST TITLES |                                              | WARNINGS     |                                     |
|                                                           | EC - CEPA DSL          |                                              | Persistent   |                                     |
| ADDITIONAL LISTINGS                                       | AGENCY                 |                                              | NOTIFICATION |                                     |
| None found                                                |                        | No listings found on Additional Hazard Lists |              |                                     |
| SUBSTANCE NOTES:                                          |                        |                                              |              |                                     |

|                                                           |  |  |                                           |  |
|-----------------------------------------------------------|--|--|-------------------------------------------|--|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |  |  | HAZARD SCREENING DATE: 2022-08-31 8:13:18 |  |
|-----------------------------------------------------------|--|--|-------------------------------------------|--|

|                     |                        |                     |                                              |              |                          |
|---------------------|------------------------|---------------------|----------------------------------------------|--------------|--------------------------|
| %: 0.0000           |                        | GreenScreen: LT-UNK | RC: UNK                                      | NANO: No     | SUBSTANCE ROLE: Adhesive |
| HAZARD TYPE         | AGENCY AND LIST TITLES |                     |                                              | WARNINGS     |                          |
|                     | EC - CEPA DSL          |                     |                                              | Persistent   |                          |
| ADDITIONAL LISTINGS | AGENCY                 |                     |                                              | NOTIFICATION |                          |
| None found          |                        |                     | No listings found on Additional Hazard Lists |              |                          |
| SUBSTANCE NOTES:    |                        |                     |                                              |              |                          |

UNDER SHEET

%: 0.0591

|                                                                                   |                                                   |                               |
|-----------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------|
| PRODUCT THRESHOLD: 100 ppm                                                        | RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No | MATERIAL TYPE: Other: Not Set |
| RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities Evaluation Not Completed |                                                   |                               |
| OTHER MATERIAL NOTES:                                                             |                                                   |                               |

POLYPROPYLENEID: 9003-07-0

|                                                                  |                                             |                                                  |                                     |                                            |
|------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------|-------------------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                             | HAZARD SCREENING DATE: <b>2022-08-31 8:17:47</b> |                                     |                                            |
| %: <b>0.0588</b>                                                 | GreenScreen: <b>LT-P1</b>                   | RC: <b>UNK</b>                                   | NANO: <b>No</b>                     | SUBSTANCE ROLE: <b>Structure component</b> |
| HAZARD TYPE                                                      | AGENCY AND LIST TITLES                      |                                                  | WARNINGS                            |                                            |
|                                                                  | EC - CEPA DSL                               |                                                  | Persistent                          |                                            |
| ADDITIONAL LISTINGS                                              | AGENCY                                      |                                                  | NOTIFICATION                        |                                            |
| POSITIVE LIST                                                    | US Environmental Protection Agency (US EPA) |                                                  | US EPA - DfE SCIL                   |                                            |
|                                                                  |                                             |                                                  | Green Circle - Verified Low Concern |                                            |
| SUBSTANCE NOTES:                                                 |                                             |                                                  |                                     |                                            |

TITANIUM DIOXIDEID: 13463-67-7

|                                                                  |  |                                                  |                |                 |                                            |
|------------------------------------------------------------------|--|--------------------------------------------------|----------------|-----------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |  | HAZARD SCREENING DATE: <b>2022-08-31 8:19:46</b> |                |                 |                                            |
| %: <b>0.0003</b>                                                 |  | GreenScreen: <b>LT-1</b>                         | RC: <b>UNK</b> | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Structure component</b> |

| HAZARD TYPE         | AGENCY AND LIST TITLES                                   | WARNINGS                                                                                                                                                  |
|---------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAN                 | US CDC - Occupational Carcinogens                        | Occupational Carcinogen                                                                                                                                   |
| CAN                 | CA EPA - Prop 65                                         | Carcinogen - specific to chemical form or exposure route                                                                                                  |
| CAN                 | IARC                                                     | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources                                                                            |
| CAN                 | MAK                                                      | Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value                                                      |
| END                 | TEDX - Potential Endocrine Disruptors                    | Potential Endocrine Disruptor                                                                                                                             |
| CAN                 | MAK                                                      | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels                                                                          |
| CAN                 | EU - GHS (H-Statements) Annex 6 Table 3-1                | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]                                                                                         |
|                     | EC - CEPA DSL                                            | Persistent                                                                                                                                                |
| CAN                 | GHS - Japan                                              | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]                                                                                         |
| MAM                 | GHS - Japan                                              | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| CAN                 | EU - Annex VI CMRs                                       | Carcinogen Category 2 - Suspected human Carcinogen                                                                                                        |
| ADDITIONAL LISTINGS | AGENCY                                                   | NOTIFICATION                                                                                                                                              |
| POSITIVE LIST       | US Environmental Protection Agency (US EPA)              | US EPA - DfE SCIL<br><br>Green Circle - Verified Low Concern                                                                                              |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Cosmetics & Personal Care Products                     |
| SUBSTANCE NOTES:    |                                                          |                                                                                                                                                           |

|                                                                                           |                                                   |                               |
|-------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------|
| GLUE FOR UNDER SHEET                                                                      | %: 0.0443                                         |                               |
| PRODUCT THRESHOLD: 100 ppm                                                                | RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No | MATERIAL TYPE: Other: Not Set |
| RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities Evaluation Not Completed         |                                                   |                               |
| OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold. |                                                   |                               |

### 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) - Classroom & Office scenario |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------|
| CERTIFYING PARTY: Third Party                                                                                                                                                                                                                                                     | ISSUE DATE: 2021-11-10                                                       | CERTIFIER OR LAB: Intertek |
| APPLICABLE FACILITIES: All                                                                                                                                                                                                                                                        | EXPIRY DATE: 2022-11-09                                                      |                            |
| CERTIFICATE URL:<br><a href="https://sustainabilitydirectory.intertek.com/images/certificates/ce14fed-8b0d-4112-85b8-c195647a6788/CA-12279-2021a.pdf">https://sustainabilitydirectory.intertek.com/images/certificates/ce14fed-8b0d-4112-85b8-c195647a6788/CA-12279-2021a.pdf</a> |                                                                              |                            |
| CERTIFICATION AND COMPLIANCE NOTES: This certification is applicable to the Cable Floor                                                                                                                                                                                           |                                                                              |                            |

### 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

## MANUFACTURER INFORMATION

**MANUFACTURER:** Global Integrated Flooring Solutions  
**ADDRESS:** 3700 32nd Street SE  
**Kentwood Michigan 49512, United States**  
**WEBSITE:** [www.globalifs.com](http://www.globalifs.com)

**CONTACT NAME:** Susan Borr  
**TITLE:** Sales Support Manager  
**PHONE:** 6165948127  
**EMAIL:** [sborr@globalifs.com](mailto:sborr@globalifs.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

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

### GreenScreen (GS)

|                                                                     |                                                                |
|---------------------------------------------------------------------|----------------------------------------------------------------|
| <b>BM-4</b> Benchmark 4 (prefer-safer chemical)                     | <b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1) |
| <b>BM-3</b> Benchmark 3 (use but still opportunity for improvement) | <b>LT-1</b> List Translator 1 (Likely Benchmark-1)             |
| <b>BM-2</b> Benchmark 2 (use but search for safer substitutes)      | <b>LT-UNK</b> List Translator Benchmark Unknown                |
| <b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)          | <b>NoGS</b> No GreenScreen.                                    |
| <b>BM-U</b> Benchmark Unspecified (due to insufficient data)        |                                                                |

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org), and Best Practices for Hazard Screening on the HPDC website ([hpd-collaborative.org](http://hpd-collaborative.org)).

### 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.*