

HPD UNIQUE IDENTIFIER: 25900

CLASSIFICATION: 06 16 43 Gypsum Sheathing

PRODUCT DESCRIPTION: Gold Bond® eXP® Sheathing consists of a moisture- and mold-resistant gypsum core encased in a coated, specially designed PURPLE fiberglass mat on the face, back and sides. It is available in either a Regular or Type X core. The glass mat is folded around the long edges to reinforce and protect the core, and it provides superior weather resistance. Use it for attachment to the outside of wall and soffit framing as a substrate for exterior cladding. For speed of installation, GridMarX® guide marks are printed on the glass mat surface. The color PURPLE is a registered trademark of Gold Bond Building Products, LLC. National Gypsum Company is the exclusive service provider for products manufactured by Gold Bond Building Products, LLC, PermaBASE Building Products, LLC and ProForm Finishing Products, LLC.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

| | | | |
|--|--|---|---|
| Inventory Reporting Format | Threshold level | Residuals/Impurities | <i>All Substances Above the Threshold Indicated Are:</i> |
| <input checked="" type="radio"/> Nested Materials Method | <input type="radio"/> 100 ppm | Residuals/Impurities | Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No |
| <input type="radio"/> Basic Method | <input checked="" type="radio"/> 1,000 ppm | Considered in 2 of 2 Materials | % weight and role provided for all substances. |
| Threshold Disclosed Per | <input type="radio"/> Per GHS SDS | Explanation(s) provided | Screened <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No |
| <input type="radio"/> Material | <input type="radio"/> Other | for Residuals/Impurities? | <i>All substances screened using Priority Hazard Lists with results disclosed.</i> |
| <input checked="" type="radio"/> Product | | <input checked="" type="radio"/> Yes <input type="radio"/> No | Identified <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No |
| | | | <i>One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.</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.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE
EXP GYPSUM CORE [GYPSUM LT-UNK GLASS / MINERAL FIBER LT-UNK SILOXANES AND SILICONES, DI-ME, POLYMERS WITH 3-MERCAPTOPROPYL SILSESQUIOXANES LT-UNK SODIUM POLYNAPHTHALENESULFONATE LT-P1 | PBT POTASSIUM SULFATE LT-UNK] GLASS MAT FACERS [CALCIUM CARBONATE BM-3 CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-UNK]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1
 Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.2, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight for each substance. Substances not "Identified" are those considered proprietary to suppliers, and thus are "Undisclosed" on this HPD.

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: UL/GreenGuard Certified
 Other: ICC-ES Evaluation Report (ESR-2743)
 LCA: Industry-wide Type III EPD

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

| | | |
|-------------------------------------|--------------------------------|----------------------------|
| Third Party Verified? | PREPARER: Elixir Environmental | SCREENING DATE: 2021-08-24 |
| <input type="radio"/> Yes | VERIFIER: | PUBLISHED DATE: 2021-08-24 |
| <input checked="" type="radio"/> No | VERIFICATION #: | EXPIRY DATE: 2024-08-24 |

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

EXP GYPSUM CORE

#: 94.3000 - 96.9000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were "Considered", as outlined in Emerging Best Practices. No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier disclosures and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Gold Bond® eXP® Sheathing is manufactured with an enhanced moisture and mold resistant core. Percent by weight of material and substances reported as ranges to account for formulation variations between manufacturing facilities, and due to the disclosure preference of suppliers.

GYPSUM

ID: 13397-24-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-08-24 14:00:07

#: 99.1000 - 99.3000 GS: LT-UNK RC: PreC NANO: No SUBSTANCE ROLE: Structure component

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

SUBSTANCE NOTES: May also include CASRN 10101-41-4 (LT-UNK; No warnings found on HPD Priority lists). Gold Bond Building Products, LLC manufactures gypsum board at 18 plants across the country. Plant details can be found at: <https://www.nationalgypsum.com/who-we-are>.

GLASS / MINERAL FIBER

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-08-24 14:00:09

#: 0.1000 - 0.4000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Structure component

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

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern).

SILOXANES AND SILICONES, DI-ME, POLYMERS WITH 3-MERCAPTOPROPYL SILSESQUIOXANES

ID: 108775-26-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-08-24 14:00:10

#: 0.1000 - 0.4000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Water resistance

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

SUBSTANCE NOTES: Silicone.

SODIUM POLYNAPHTHALENESULFONATE

ID: 9084-06-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-08-24 14:00:10**%: **0.0100 - 0.2000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Processing regulator**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| PBT | EC - CEPA DSL | Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans |

SUBSTANCE NOTES:

POTASSIUM SULFATE

ID: 7778-80-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-08-24 14:00:11**%: **0.0000 - 0.2000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Water resistance**

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

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Substance not used in all manufacturing plants; please contact manufacturer if more information is required.

GLASS MAT FACERS%: **3.1000 - 5.7000**

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Glass

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were "Considered", as outlined in Emerging Best Practices. No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier disclosures and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Percent by weight of material and substances reported as ranges to account for formulation variations between manufacturing facilities, and due to the disclosure preference of suppliers.

CALCIUM CARBONATE

ID: 471-34-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-08-24 14:00:07**%: **41.0000 - 45.0000** GS: **BM-3** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

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

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). GreenScreen Benchmark® assessment score of BM-3 was provided by the HPD Builder Tool.

CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-08-24 14:00:08**%: **35.0000 - 44.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

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

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern).

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-08-24 14:00:08**

#: **4.8000 - 12.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

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

SUBSTANCE NOTES: Supplier has shared substance identity under the terms of a non-disclosure agreement; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Substance is not included on the Living Building Challenge (LBC) Red List Chemical Guide Version 4.0.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-08-24 14:00:09**

#: **2.1000 - 3.7000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

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

SUBSTANCE NOTES: Supplier has shared substance identity under the terms of a non-disclosure agreement; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Substance is not included on the Living Building Challenge (LBC) Red List Chemical Guide Version 4.0.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-08-24 14:00:11**

#: **0.0000 - 12.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

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

SUBSTANCE NOTES: Supplier has shared substance identity under the terms of a non-disclosure agreement; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Substance not used in every plant. Contact manufacturer if more information is needed. Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Substance is not included on the Living Building Challenge (LBC) Red List Chemical Guide Version 4.0.

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

| VOC EMISSIONS | UL/GreenGuard Certified | | |
|--|-------------------------------------|-------------------------|---|
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All CERTIFICATE URL: http://certificates.ulenvironment.com/default.aspx?id=138648&t=gg | ISSUE DATE: 2019-05-13 | EXPIRY DATE: 2022-06-28 | CERTIFIER OR LAB: UL Environment |
| CERTIFICATION AND COMPLIANCE NOTES: Certificate Number: 138648-410. UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings Building materials are determined compliant in accordance with an Office environment with an air change of 0.68 hr-1 and a loading of 10.60 m2. | | | |
| OTHER | ICC-ES Evaluation Report (ESR-2743) | | |
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All CERTIFICATE URL: https://tinyurl.com/dwnjfkyy | ISSUE DATE: 2021-06-01 | EXPIRY DATE: 2022-06-01 | CERTIFIER OR LAB: ICC Evaluation Services |
| CERTIFICATION AND COMPLIANCE NOTES: ESR-2743. Evaluation Subject: Gold Bond eXP ½-inch and 5/8-inch Type X Gypsum Sheathing. Evaluation Scope: Compliance with the following codes: 2018, 2015, 2012 and 2009 International Building Code® (IBC); 2018, 2015, 2012 and 2009 International Residential Code® (IRC). Properties Evaluated: Structural; Noncombustibility; Surface-burning characteristics; Fire-resistance-rated construction; Physical properties. | | | |
| LCA | Industry-wide Type III EPD | | |
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All CERTIFICATE URL: https://tinyurl.com/k32h3w | ISSUE DATE: 2021-05-21 | EXPIRY DATE: 2026-05-21 | CERTIFIER OR LAB: ASTM International |
| CERTIFICATION AND COMPLIANCE NOTES: Industry average cradle-to-gate EPD for Glass Mat Gypsum Panels produced by Gypsum Association member companies for the USA and Canadian Markets. Declaration Number: EPD 206. PCR: NSF International, Product Category Rule for Environmental Product Declarations, PCR for Gypsum Panel Products, April 2020. Declared unit: 92.9 m2 (1,000 square feet) of glass-mat gypsum board with a nominal finished thickness of 12.7 mm and 15.9 mm (1/2" and 5/8"). | | | |

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.

| STEEL FRAMING | HPD URL: No HPD available |
|--|---------------------------|
| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Component of Steel Stud Curtain Wall, as referenced in ICC Evaluation Report (ESR-2743). | |
| FASTENERS | HPD URL: No HPD available |
| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: As referenced in ICC Evaluation Report (ESR-2743). | |

Section 5: General Notes

Residuals and Impurities have been considered as stated in the Material Notes for each disclosed material.

MANUFACTURER INFORMATION

MANUFACTURER: Gold Bond Building Products, LLC provided by
National Gypsum Company
ADDRESS: 2001 Rexford Road
Charlotte NC 28211, USA
WEBSITE: www.goldbondbuilding.com

CONTACT NAME: Amy Hockett
TITLE: Manager - Architectural Services & Sustainability
PHONE: 704-365-7931
EMAIL: AmyH@NationalGypsum.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

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

GreenScreen (GS)

| | |
|---|--|
| BM-4 Benchmark 4 (prefer-safer chemical) | LT-1 List Translator 1 (Likely Benchmark-1) |
| BM-3 Benchmark 3 (use but still opportunity for improvement) | LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.) |
| BM-2 Benchmark 2 (use but search for safer substitutes) | NoGS No GreenScreen. |
| BM-1 Benchmark 1 (avoid - chemical of high concern) | |
| BM-U Benchmark Unspecified (due to insufficient data) | |
| LT-P1 List Translator Possible 1 (Possible Benchmark-1) | |

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.