

# DEXcell Glass Mat Roof Boards® by National Gypsum Company

# Health Product Declaration v2.0

CLASSIFICATION: 07 50 00.00 THERMAL AND MOISTURE PROTECTION (INSULATION WATER BARRIER): MEMBRANE ROOFING

created via: HPDC Online  
Builder

PRODUCT DESCRIPTION: DEXCELL® BRAND GLASS MAT ROOF BOARD HAS COATED FIBERGLASS FACERS AND AN ENHANCED MOLD-RESISTANT GYPSUM CORE. THIS MOLD- AND MOISTURE-RESISTANT GYPSUM PANEL IS A SUBSTRATE BOARD, THERMAL BARRIER AND/OR COVERBOARD FOR COMMERCIAL ROOFING APPLICATIONS. IT SCORES AND CUTS EASILY, AND IS SPECIALLY COATED ON THE FRONT, BACK AND SIDES FOR EASY HANDLING. USE IT FOR A WIDE VARIETY OF ROOFING SYSTEMS, INCLUDING MECHANICALLY ATTACHED AND BALLASTED SINGLE-PLY MEMBRANES, THERMAL BARRIERS AND METAL ROOFING. THIS HPD COVERS 5/8" DEXCELL® BRAND GLASS MAT ROOF BOARD AND 5/8" DEXCELL® BRAND FA GLASS MAT ROOF BOARD PRODUCTS.

## Section 1: Summary

### CONTENT INVENTORY

Threshold per material	Residuals and impurities considered in 2 of 2 materials	Based on the selected Content Inventory Threshold:	
<input type="radio"/> 100 ppm	<input checked="" type="radio"/> see Section 2:	Characterized.....	<input checked="" type="radio"/> Yes <input type="radio"/> No
<input checked="" type="radio"/> 1,000 ppm	<input checked="" type="radio"/> see Section 5:	Are the Percent Weight and Role provided for all substances?	<input type="radio"/> Yes <input checked="" type="radio"/> No
<input type="radio"/> Per GHS SDS	Material Notes	Screened.....	<input checked="" type="radio"/> Yes <input type="radio"/> No
<input type="radio"/> Per OSHA MSDS	<input checked="" type="radio"/> see Section 5:	Are all substances screened using Priority Hazard Lists with results disclosed?	<input type="radio"/> Yes <input checked="" type="radio"/> No
<input type="radio"/> Other	General Notes	Identified.....	<input type="radio"/> Yes <input checked="" type="radio"/> No
		Are all substances disclosed by Name (Specific or Generic) and Identifier?	

### CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

Number of Greenscreen BM-4/BM3 contents..... 0  
Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1  
Nanomaterial..... No

**MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY**  
**GREENSCREEN SCORE | HAZARD TYPE**

DEXCELL GYPSUM CORE [ GYPSUM **LT-UNK** STARCH **LT-UNK** GLASS / MINERAL FIBER **LT-UNK** | CAN SILOXANES AND SILICONES, DI-ME, POLYMERS WITH 3-MERCAPTOPROPYL SILSESQUIOXANES **LT-UNK** SODIUM POLYNAPHTHALENESULFONATE **LT-P1** | PBT ] COATED FIBERGLASS MAT (EXTERIOR) [ LIMESTONE; CALCIUM CARBONATE **LT-UNK** GLASS / MINERAL FIBER **LT-UNK** | CAN KAOLIN CLAY **LT-UNK** | CAN UNDISCLOSED **LT-P1** | RES UNDISCLOSED **LT-UNK** POTASSIUM METHYLSILANETRIOLATE **NoGS** POLYACRYLIC ACID, SODIUM SALT **LT-UNK** UNDISCLOSED **LT-UNK** MICA **LT-UNK** QUARTZ **LT-1** | CAN SILICA, AMORPHOUS **LT-P1** ]

### INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.0, 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. Therefore, this HPD is consistent with the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1).

### VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

### CERTIFICATIONS AND COMPLIANCE

No certifications have been added to this HPD.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: May 1, 2017	EXPIRY DATE*: May 1, 2020
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: May 15, 2017	* or within 3 months of significant change in product contents
*See HPDC website for details			



## Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: [www.hpd-collaborative.org](http://www.hpd-collaborative.org) and [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org).

### DEXCELL GYPSUM CORE

#: 95.5000 - 97.0000

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: Yes

Material Notes: No residuals or impurities are known or expected to be present in this material at or above the Content Inventory Threshold indicated that return a GS score of BM-1, LT-1 or LT-P1 based on batch testing, supplier SDS, and as predicted by process chemistry (Pharos CML).

#### GYPSUM

ID: 13397-24-5

#: 98.9000 - 99.2000

GS: LT-UNK

RC: PreC

NANO: NO

ROLE: Substrate

#### HAZARDS:

None Found

#### AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

SUBSTANCE NOTES: May also include CASRN 10101-41-4 (LT-UNK; No warnings found on HPD Priority lists). Five National Gypsum plants produce gypsum board exclusively with Pre-Consumer (Post-Industrial) byproduct gypsum [Shippingport, PA; Apollo Beach, FL; Mt. Holly, NC; Westwego, LA; Shoals, IN]. Ten National Gypsum plants produce gypsum board exclusively with natural rock gypsum [Burlington, NJ; Fort Dodge, IA; Long Beach, CA; Medicine Lodge, KS; National City, MI; Phoenix, AZ; Portsmouth, NH; Richmond, CA; Rotan, TX; Savannah, GA]. Two National Gypsum plants produce gypsum board with a blend of Pre-Consumer (Post-Industrial) byproduct gypsum and natural rock gypsum [Baltimore, MD; Waukegan, IL].

#### STARCH

ID: 9005-25-8

#: 0.4000 - 0.5000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Improves Binding and Core Strength

#### HAZARDS:

None Found

#### AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List. May also include CASRN 65996-63-6 (LT-UNK; No warnings found on HPD Priority lists).

#### GLASS / MINERAL FIBER

ID: 65997-17-3

#: 0.3000 - 0.4000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Core Strength, Fire Resistance

#### HAZARDS:

CANCER

EU - R-phrases

R40 - Limited Evidence of Carcinogenic Effects

CANCER

EU - GHS (H-Statements)

H351 - Suspected of causing cancer

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

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

ID: 108775-26-4

#: 0.1000 - 0.2000      GS: LT-UNK      RC: None      NANO: NO      ROLE: Moisture Resistance

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Silicone

**SODIUM POLYNAPHTHALENESULFONATE**

ID: 9084-06-4

#: 0.0300 - 0.0400      GS: LT-P1      RC: None      NANO: NO      ROLE: Dispersant; Reduces process water demand and energy consumption

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

PBT

EC - CEPA DSL

Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

SUBSTANCE NOTES: This substance falls below the Content Inventory Threshold indicated; however, we have included this substance in an effort to provide full transparency for this product. Efforts are being made to find a suitable replacement for this dispersant that has fewer hazards.

**COATED FIBERGLASS MAT (EXTERIOR)**

#: 3.0000 - 4.5000

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: Yes

Material Notes: Residuals or impurities with the potential to be present at or above the Content Inventory Threshold indicated that return a GS score of BM-1, LT-1 or LT-P1 have been disclosed, based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML). Percent by weight of substances reported as a range in order to further protect the proprietary nature of this formulation.

**LIMESTONE; CALCIUM CARBONATE**

ID: 1317-65-3

#: 45.0000 - 50.0000      GS: LT-UNK      RC: None      NANO: NO      ROLE: Filler

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

**GLASS / MINERAL FIBER**

ID: 65997-17-3

#: 20.0000 - 25.0000      GS: LT-UNK      RC: None      NANO: NO      ROLE: Substrate

**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

**KAOLIN CLAY**

ID: 1332-58-7

%: 20.0000 - 25.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Filler
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**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
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SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

**UNDISCLOSED**

%: 2.0000 - 7.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Binder
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**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
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SUBSTANCE NOTES: Supplier has disclosed substance name and CASRN under a Non-Disclosure Agreement; substance to remain proprietary to supplier. Substance has been screened against the HPD Priority lists with results disclosed. Supplier has confirmed the upper limit for residuals of concern related to this binder component, which fall below the Content Inventory Threshold indicated for this material.

**UNDISCLOSED**

%: 1.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Binder
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**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Supplier has disclosed substance name and CASRN under a Non-Disclosure Agreement; substance to remain proprietary to supplier. Substance has been screened against the HPD Priority lists with results disclosed.

**POTASSIUM METHYLSILANETRIOLATE**

ID: 31795-24-1

%: 0.1000 - 1.0000	GS: NoGS	RC: None	NANO: NO	ROLE: Water Repellent
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**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**POLYACRYLIC ACID, SODIUM SALT**

ID: 9003-04-7

%: 0.1000 - 1.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Dispersant

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

**UNDISCLOSED**

%: 0.1000 - 1.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Binder

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Supplier has disclosed substance name and CASRN under a Non-Disclosure Agreement; substance to remain proprietary to supplier. Substance has been screened against the HPD Priority lists with results disclosed.

**MICA**

ID: 12001-26-2

%: 0.1000 - 1.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Filler

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**QUARTZ**

ID: 14808-60-7

%: Impurity/Residual

GS: LT-1

RC: None

NANO: NO

ROLE: Impurity/Residual

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

IARC

Group 1: Agent is carcinogenic to humans - inhaled from occupational sources

CANCER

US NIH - Report on Carcinogens

Known to be Human Carcinogen (respirable size - occupational setting)

CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man		
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route		
<p>SUBSTANCE NOTES: Quartz is one of several compounds with warnings restricted to respirable forms (Pharos CML). Exposures to respirable crystalline silica are not expected during the recommended use of this product. Awaiting full GreenScreen Assessment for form specific hazards for this compound (<a href="http://ow.ly/Z5ken">http://ow.ly/Z5ken</a>).</p>				
<b>SILICA, AMORPHOUS</b>		ID: 7631-86-9		
%: Impurity/Residual	GS: LT-P1	RC: None	NANO: NO	ROLE: Impurity/Residual
<b>HAZARDS:</b>		<b>AGENCY(IES) WITH WARNINGS:</b>		
None Found		No warnings found on HPD Priority lists		
<p>SUBSTANCE NOTES: Potential Residual/Impurity of Glass/Mineral Fiber (Pharos CML).</p>				

### 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.

### 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.

### Section 5: General Notes

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



**MANUFACTURER INFORMATION**

MANUFACTURER: National Gypsum Company

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**KEY**

**OSHA MSDS** Occupational Safety and Health Administration Material Safety Data Sheet

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

Hazard Types

**AQU** Aquatic toxicity

**GLO** Global warming

**PHY** Physical Hazard (reactive)

**CAN** Cancer

**MAM** Mammalian/systemic/organ toxicity

**REP** Reproductive toxicity

**DEV** Developmental toxicity

**MUL** Multiple hazards

**RES** Respiratory sensitization

**END** Endocrine activity

**NEU** Neurotoxicity

**SKI** Skin sensitization/irritation/corrosivity

**EYE** Eye irritation/corrosivity

**OZO** Ozone depletion

**LAN** Land Toxicity

**GEN** Gene mutation

**PBT** Persistent Bioaccumulative Toxic

**NF** Not found on Priority Hazard Lists

GreenScreen (GS)

**BM-4** Benchmark 4 (prefer-safer chemical)

**LT-P1** List Translator Possible Benchmark 1

**BM-3** Benchmark 3 (use but still opportunity for improvement) BM-2  
Benchmark 2 (use but search for safer substitutes)

**LT-1** List Translator Likely Benchmark 1

**BM-1** Benchmark 1 (avoid - chemical of high concern)

**LT-UNK** List Translator Benchmark Unknown (insufficient  
information from List Translator lists to benchmark)

**BM-U** Benchmark Unspecified (insufficient data to benchmark)

**UNK** Unknown (no data on List Translator Lists)

Recycled Types

**PreC** Preconsumer (Post-Industrial)

**PostC** Postconsumer

**Both** Both Preconsumer and Postconsumer

**Unk** Inclusion of recycled content is unknown

**None** Does not include recycled content

Other

**Nano** Composed of nanoscale particles or nanotechnology

Declaration Level

**Self-declared** Manufacturer's self-declaration (First Party)

**Independent Lab** Manufacturer's self-declaration using results from an independent lab

**Second Party** Verification by trade association or other interested party

**Third Party** Verification by independent certifier

**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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

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

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.