

CLASSIFICATION: 09 29 00.00 FINISHES: GYPSUM BOARD

PRODUCT DESCRIPTION: GOLD BOND® BRAND HIGH STRENGTH FIRE-SHIELD® LITE® GYPSUM BOARD PANELS CONSIST OF A FIRE-RESISTANT TYPE X GYPSUM CORE SPECIALLY FORMULATED TO BE 15% LIGHTER THAN STANDARD TYPE X GYPSUM BOARD. HIGH STRENGTH FIRE-SHIELD LITE IS ENCASED IN HEAVY NATURAL-FINISH, 100% RECYCLED PAPER ON THE FACE AND BACK SIDES. THE FACE PAPER IS FOLDED AROUND THE LONG EDGES TO REINFORCE AND PROTECT THE CORE, AND THE ENDS ARE SQUARE-CUT AND FINISHED SMOOTH. FOR SPEED OF INSTALLATION, GRIDMARX® GUIDE MARKS ARE PRINTED ON THE PAPER SURFACE. THIS HPD COVERS 5/8" GOLD BOND® BRAND HIGH STRENGTH FIRE-SHIELD® LITE® GYPSUM BOARD PRODUCTS.

Section 1: Summary

CONTENT INVENTORY

Threshold per material	Residuals and impurities considered in 2 of 2 materials
<input type="radio"/> 100 ppm	<input checked="" type="radio"/> see Section 2:
<input checked="" type="radio"/> 1,000 ppm	Material Notes
<input type="radio"/> Per GHS SDS	<input checked="" type="radio"/> see Section 5:
<input type="radio"/> Per OSHA MSDS	General Notes
<input type="radio"/> Other	

Based on the selected Content Inventory Threshold:

Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances disclosed by Name (Specific or Generic) and Identifier?	Yes	No

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

HIGH STRENGTH FIRE-SHIELD® LITE® GYPSUM CORE [GYPSUM **LT-UNK** VERMICULITE **NoGS** ACID MODIFIED, CORN STARCH **NoGS** SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS) **LT-UNK** | CAN SODIUM POLYNAPHTHALENESULFONATE **LT-P1** | PBT QUARTZ **LT-1** | CAN] HIGH STRENGTH FIRE-SHIELD® LITE® PAPER FACING [MIXED RECYCLED PAPER **NoGS** 2,5-FURANDIONE, DIHYDRO-, MONO-C15-20-ALKENYL DERIVS. **LT-UNK** STARCH **LT-UNK**]

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

VOC emissions: GREENGUARD Certified
VOC emissions: GREENGUARD Gold Certified
Multi-attribute: Type III Environmental Product Declaration (EPD)

See Section 3 for additional listings.

<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 and www.greenscreenchemicals.org.

HIGH STRENGTH FIRE-SHIELD® LITE® GYPSUM CORE

%: 95.2000 - 96.0000

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 batch testing, supplier SDS, and as predicted by process chemistry (Pharos CML).

GYPSUM

ID: 13397-24-5

%: 93.1000 - 93.6000

GS: LT-UNK

RC: PreC

NANO: NO

ROLE: Core Substrate

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

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].

VERMICULITE

ID: 1318-00-9

%: 5.0000 - 5.5000

GS: NoGS

RC: None

NANO: NO

ROLE: Improves Fire Resistance

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Supplier confirms no asbestos detected (EPA method EPA/600/R-93/116).

ACID MODIFIED, CORN STARCH

ID: 65996-63-6

%: 0.6000 - 0.7000

GS: NoGS

RC: None

NANO: NO

ROLE: Improves Binding and Core Strength

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

%: 0.6000 - 0.7000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Improves Core Strength
--------------------	------------	----------	----------	------------------------------

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.

SODIUM POLYNAPHTHALENESULFONATE

ID: 9084-06-4

%: 0.0200 - 0.0300	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.

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	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
--------	------------------	--

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
--------	-----	--

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 (<http://ow.ly/Z5ken>). Although batch testing reveals that Quartz/Silica is present in this material below the Content Inventory Threshold indicated, we have chosen to include this substance as a potential impurity to account for any possible differences between batches.

HIGH STRENGTH FIRE-SHIELD® LITE® PAPER FACING

%: 4.0000 - 4.8000

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: Yes

Material Notes: 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 or LT-P1 based on supplier SDS and as predicted by process chemistry (Pharos CML).

MIXED RECYCLED PAPER

ID:

%: 99.0000 - 99.5000

GS: NoGS

RC: PostC

NANO: NO

ROLE: Face and Back Paper; Holds Core

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

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: 100% of our gypsum board face and back paper is produced with post-consumer recyclable content. The company's three paper mills produce paper from discarded cardboard and magazines.

2,5-FURANDIONE, DIHYDRO-, MONO-C15-20-ALKENYL DERIVS.

ID: 68784-12-3

%: 0.3000 - 0.4000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Sizing Aid

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

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Alkenyl Succinic Anhydride

STARCH

ID: 9005-25-8

%: 0.3000 - 0.4000

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: Identified on the US EPA Safer Chemical Ingredient List.

**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

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: All

CERTIFICATE URL:

certificates.ulenvironment.com/default.aspx?id=20455&t=gg

CERTIFICATION AND COMPLIANCE NOTES: Certificate Number: 20455-410

GREENGUARD Certified

ISSUE

EXPIRY

CERTIFIER OR LAB:

DATE: 2008-12-31

DATE: 2017-12-31

UL Environment

VOC EMISSIONS**GREENGUARD Gold Certified**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: All
CERTIFICATE URL:
certificates.ulenvironment.com/default.aspx?id=20455&t=cs
CERTIFICATION AND COMPLIANCE NOTES: Certificate Number: 20455-420

ISSUE
DATE: 2008-
12-31

EXPIRY
DATE: 2017-
12-31

CERTIFIER OR LAB:
UL Environment

MULTI-ATTRIBUTE

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: All
CERTIFICATE URL: <https://fpinnovations.ca/ResearchProgram/environment-sustainability/epd-program/Documents/epd-gypsum.pdf>
CERTIFICATION AND COMPLIANCE NOTES: Type III environmental product declaration (EPD) developed according to ISO 14025 and 21930 for average 5/8" type X gypsum boards, also known as drywall, manufactured by the members of the Gypsum Association. Declaration number: FPI/GA/01/2014. Scope: Cradle-to-gate. Declared unit: 1,000 square feet (1 MSF) of 5/8" type X gypsum board at facility gate.

Type III Environmental Product Declaration (EPD)

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2014-05-01	2019-05-01	FPIinnovations

+ 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.

PROFORM® PAPER JOINT TAPE

HPD URL: <http://designcenter.nationalgypsum.com/sustainability/category/health-product-declaration-hpd>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Finish gypsum board with either paper tape, such as ProForm® Paper Joint Tape, and ready mix joint compound; or fiberglass mesh or paper tape and setting compound.

PROFORM® READY MIX JOINT COMPOUNDS

HPD URL: <http://designcenter.nationalgypsum.com/sustainability/category/health-product-declaration-hpd>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Finish gypsum board with either paper tape and ready mix joint compound, such as ProForm® Ready Mix Joint Compounds; or fiberglass mesh or paper tape and setting compound.

PROFORM® SETTING TYPE JOINT COMPOUNDS

HPD URL: <http://designcenter.nationalgypsum.com/sustainability/category/health-product-declaration-hpd>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Finish gypsum board with either paper tape and ready mix joint compound; or fiberglass mesh or paper tape and setting compound, such as ProForm® Setting Type Joint Compound.

+ 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

CONTACT NAME: Warren Barber

ADDRESS: 2001 Rexford Road
Charlotte, NC 28211
USA

TITLE: Manager - Technical Marketing

PHONE: 704-365-7494

WEBSITE: www.nationalgypsum.com

EMAIL: WarrenB@nationalgypsum.com

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.