Gold Bond® Fire-Shield® Shaftliner XP® Gypsum Boards by National Gypsum Company

CLASSIFICATION: 09 29 00 Finishes: Gypsum Board

PRODUCT DESCRIPTION: Gold Bond® Fire-Shield® Shaftliner XP® Gypsum Panels with Sporgard™ consist of a fire-resistant Type X gypsum core encased in a heavy moisture/mold/mildew-resistant, 100% recycled, original PURPLE® paper on the face and back sides. Shaftliner XP® was designed to provide extra protection against mold and mildew. The face paper is folded around the long edges to reinforce and protect the core, and the ends are square-cut and finished smooth. Long edges of panels are beveled for ease of installation. Shaftliner XP panels are designed to be used to construct lightweight fire barriers for cavity shaftwalls (1-4 hr), stairwells and area separation fire walls in multifamily housing. The panels are key components in the I-Stud, C-T Stud and C-H Stud Cavity Shaftwall Systems and the H-Stud Area Separation Fire Wall Systems. This HPD covers 1" Gold Bond® Fire-Shield® Shaftliner XP® Gypsum Boards.

Section 1: Summary

CONTENT INVENTORY

Inventory Reporting Format
- Nested Materials Method
- Basic Method

Threshold Disclosed Per
- Material
- Product

Threshold level
- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities
- Residuals/Impurities Considered in 2 of 2 Materials
- Explanation(s) provided for Residuals/Impurities?

Are All Substances Above the Threshold Indicated:
- Characterized
- Percent Weight and Role Provided?
- Screened
- Using Priority Hazard Lists with Results Disclosed?
- Identified
- Name and Identifier Provided?

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
--- | --- | --- | --- | ---
FIRE-SHIELD® SHAFTLINER XP® CORE | GYPSUM | LT-UNK | ACID MODIFIED, CORN STARCH | NoGS | SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS) | LT-UNK | CAN GLUCOSE | BM-3 | SODIUM POLYNAPTHALENESULFONATE | LT-P1 | PBT | GOLD BOND XP® PAPER FACING | MIXED RECYCLED PAPER | NoGS | STARCH | LT-UNK | 2,5-FURANDIONE, DIHYDRO-, MONO-C15-20-ALKENYL DERIVS. | 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 2.1, 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

See Section 3 for additional listings.

VOC emissions: GREENGUARD Gold Certified
VOC emissions: GREENGUARD Certified
Other: UL Evaluation Report (UL ER R3501-02)

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?
- Yes
- No
**FIRE-SHIELD® SHAFTLINER XP® CORE**  
%: 97.0000 - 98.0000  
HPD URL:  

**MATERIAL THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes  

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

**OTHER MATERIAL NOTES:**

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GYPSUM</strong></td>
<td></td>
<td>98.0000 - 99.0000</td>
<td>LT-UNK</td>
<td>PreC</td>
<td>No</td>
<td>Core Substrate</td>
</tr>
<tr>
<td><strong>ACID MODIFIED, CORN STARCH</strong></td>
<td></td>
<td>0.6000 - 0.7000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Improves Binding and Core Strength</td>
</tr>
<tr>
<td><strong>SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS)</strong></td>
<td></td>
<td>0.2000 - 0.3000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Improves Core Strength</td>
</tr>
</tbody>
</table>

**HAZARDS:**  
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].
### GLUCOSE

<table>
<thead>
<tr>
<th>%: 0.1000 - 0.2000</th>
<th>GS: BM-3</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Minimizes End Peel</th>
</tr>
</thead>
</table>

**HAZARDS:**

- None Found

**SUBSTANCE NOTES:** Synonyms: Anhydrous dextrose, corn sugar, dextrose, anhydrous glucose. Identified on the US EPA Safer Chemical Ingredient List.

### SODIUM POLYNAPTHALENESULFONATE

<table>
<thead>
<tr>
<th>%: 0.0400 - 0.0400</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Dispersant; Reduces process water demand and energy consumption</th>
</tr>
</thead>
</table>

**HAZARDS:**

- PBT
- EC - CEPA DSL

**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.

### GOLD BOND XP® PAPER FACING

<table>
<thead>
<tr>
<th>%: 2.0000 - 3.0000</th>
<th>HPD URL:</th>
</tr>
</thead>
</table>

**MATERIAL THRESHOLD:** 1000 ppm

**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES 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).

**OTHER MATERIAL NOTES:**

### MIXED RECYCLED PAPER

<table>
<thead>
<tr>
<th>%: 98.7000 - 99.3000</th>
<th>GS: NoGS</th>
<th>RC: PostC</th>
<th>NANO: No</th>
<th>ROLE: Face and Back Paper: Holds Core</th>
</tr>
</thead>
</table>

**HAZARDS:**

- None Found

**SUBSTANCE NOTES:** 100% of our gypsum board face and back paper is produced with post-consumer recycled content. The company's three paper mills produce paper from discarded cardboard and magazines. This substance does not currently have an assigned CAS number, and thus is not considered to be "Identified" on this HPD. Mixed recycled content is currently considered a "Special Condition" Material by the HPD Open Standard; specific guidelines (Emerging Best Practices) are being created to address known issues related to transparency and disclosure for various materials and substances, including "Recycled Content - Mixtures". This HPD will be updated as appropriate when the HPD Collaborative has established these guidelines.
STARCH

<table>
<thead>
<tr>
<th>%:</th>
<th>0.3000 - 0.4000</th>
<th>GB: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Binder</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARDS:</td>
<td>None found</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td>Identified on the US EPA Safer Chemical Ingredient List.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>%:</th>
<th>0.2000 - 0.3000</th>
<th>GB: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Sizing Aid</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARDS:</td>
<td>None found</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td>Alkenyl Succinic Anhydride</td>
<td></td>
<td></td>
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</tr>
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</table>

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**

**GREENGUARD Gold Certified**

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td><a href="https://spot.ulprospector.com/documents/1429896.pdf?bs=31734&amp;b=684279&amp;st=1&amp;r=na&amp;ind=builtenvironment">https://spot.ulprospector.com/documents/1429896.pdf?bs=31734&amp;b=684279&amp;st=1&amp;r=na&amp;ind=builtenvironment</a></td>
</tr>
</tbody>
</table>

**VOC EMISSIONS**

**GREENGUARD Certified**

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td><a href="https://spot.ulprospector.com/documents/1451590.pdf?bs=31734&amp;b=684279&amp;st=1&amp;r=na&amp;ind=builtenvironment">https://spot.ulprospector.com/documents/1451590.pdf?bs=31734&amp;b=684279&amp;st=1&amp;r=na&amp;ind=builtenvironment</a></td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES:</td>
<td>Certificate Number: 24723-410. UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Building materials are determined compliant in accordance with an Office</td>
</tr>
</tbody>
</table>
Environment with an air change of 0.68 hr⁻¹ and a loading of 11.10 m². Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.

<table>
<thead>
<tr>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY: Third Party</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES: All</td>
</tr>
<tr>
<td>CERTIFICATE URL: <a href="https://spot.ulprospector.com/documents/1497964.pdf?bs=31734&amp;b=684279&amp;st=1&amp;r=na&amp;ind=builtenvironment">https://spot.ulprospector.com/documents/1497964.pdf?bs=31734&amp;b=684279&amp;st=1&amp;r=na&amp;ind=builtenvironment</a></td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES: UL ER R3501-02. SUBJECT: One, Two, Three, and Four-Hour Fire-Resistive Interior Partition Systems; One and Two-Hour Ceiling Assemblies; Two-Hour Horizontal Membrane and Duct Protection Assemblies. The assemblies consist of steel studs and tracks faced with Gold Bond Fire-Shield Shaftliner gypsum board on one side and Gold Bond gypsum board on the other side. SCOPE OF EVALUATION - Compliance with the following codes: 2006, 2009, 2012, 2015 International Building Code (IBC); 2006, 2009, 2012, 2015 International Residential Code (IRC). The products were evaluated for the following properties: Fire-resistance-rated construction; Structural; Physical Properties; Surface Burning Characteristics; Noncombustibility.</td>
</tr>
</tbody>
</table>

### 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.

**GOLD BOND® FIRE-SHIELD® GYPSUM BOARDS**

HPD URL: http://designcenter.nationalgypsum.com/sustainability

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:


**GOLD BOND® FIRE-SHIELD® C GYPSUM BOARDS**

HPD URL: http://designcenter.nationalgypsum.com/sustainability

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:


**STEEL FRAMING**

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:


**FASTENERS**

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

As referenced in UL Evaluation Report (UL ER R3501-02).
Residuals and Impurities have been considered as stated in the Material Notes for each disclosed material.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: National Gypsum Company
ADDRESS: 2001 Rexford Road
Charlotte, NC 28211 USA
WEBSITE: www.nationalgypsum.com

CONTACT NAME: Warren Barber
TITLE: Manager - Technical Marketing
PHONE: 704-365-7494
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
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
MAM Mammalian/systemic/organ toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement)
BM-2 Benchmark 2 (use but search for safer substitutes)
BM-1 Benchmark 1 (avoid - chemical of high concern)
BM-U Benchmark Unspecified (insufficient data to benchmark)
LT-P1 List Translator Possible Benchmark 1
LT-1 List Translator Likely Benchmark 1
LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
NoGS 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 Terms

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.