



General Contractor Submittal Example

Before you start building, one big job for contractors is handling construction submittals. They're a big deal for making sure your project's on point, runs on schedule, and doesn't blow your budget. To make your construction business shine, you gotta know what these submittals are, why they matter, the basics of a good template, what goes into them, and how to make the whole process easier.

Please Note:

This is a sample submittal only showing document pages that need to be reviewed and recorded. Every page of documentation should be submitted at the end of your process.



PRODUCT DATA REPORTING FORM for LEED v4 Projects

THIS FORM IS REQUIRED TO BE SUBMITTED WITH Product Data Submittals

You must include backup documentation such as SPECIFIC Product Data Sheets, 3rd party certification, Cut Sheets, Product Specific Letter from Manufacturer, etc. (Not marketing material)

LEED PROJECT NAME:

SUBCONTRACTOR:

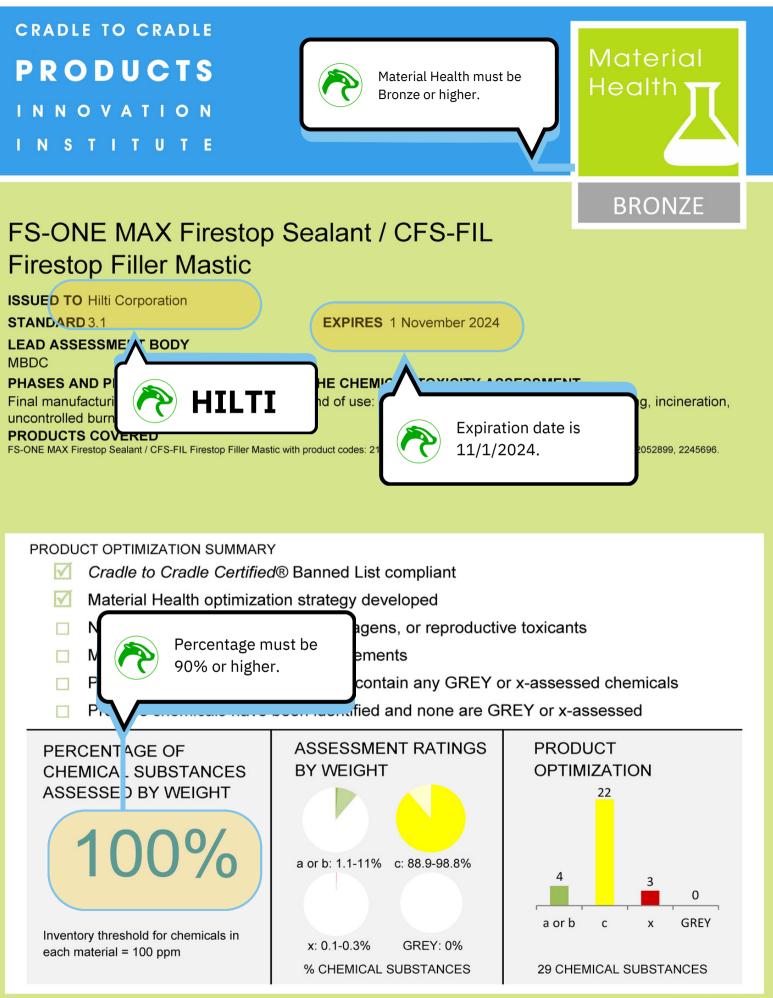
Specification Section:

| | | Project Product Data Materials and Resources LEED Credits | | | | | | Low-Emitting Materials LEED Credits | | | | | | | | |
|----|-----------------|---|--|---|--|---|---|---|--|--|---|--|---------------------------------------|---|---|---|
| | | | | Environmental Product Declarations | | Sourcing o | ourcing of Raw Materials Material Ingedients | | | CDPH Standar FloorScore: Ha Green Label P | d Method v1. ard Surfaces & lus: Carpet, A | | 1 | | | |
| | Manufacturer | Product Name | Product Costs (only exclude install labor) (\$) | Product Specific (PS) or Industry Wide (IW) Env. Product Declaration (EPD)? | EPD Optimization (GWP reuduction) | FSC Certified Wood Products? (%) | Post- Consumer Recycled Content (%) | Pre-Consumer Recycled Content (%) | Extended Producer Responsibility ? (Yes/No) | Material Ingredient Reporting (to 1000 ppm) - Select Compliance Option | Extracted, Manufactured, & Purchased within ² 100 miles? (Yes/No) | CDPH Emissions ¹⁰ testing compliant? (Yes/No) | VOC Content ¹¹ (g/L) | Wet-Applied Products Volume Used (L) | Wood Products are ULEF or NAUF ¹² ? (Yes/No) | Wood Products are CARB exempt? (Yes/No) |
| 1 | Hilti | FS-One Max Fire Caulk | \$ 375.00 | | | | | | | C2C | No | v1.2 2017 | 9 | 3 | | |
| 2 | National Gypsum | Gold Bond XP Gypsum Board | \$ 5,000.00 | Product Specific | | | 5 | 95 | | HPD | Yes | v1.2 2017 | | | | |
| 3 | National Gypsum | Туре Х | \$ 7,500.00 | Industry Wide | | | | | | | No | 100017 | | | No | No |
| 4 | | | | | | | | | | | | | | | | |
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| I, | a duly authorized representative of our contract. | | hereby cert |
|---|---|---------------|-------------|
| EMAIL FOR AUTHORIZED REPRESENTATI | VE: | Direct Phone: | : |
| SIGNATURE OF AUTHORIZED REPRESENTATIVE: | | DATE: | |



tify that the material information submitted here is an accurate



MHC6362



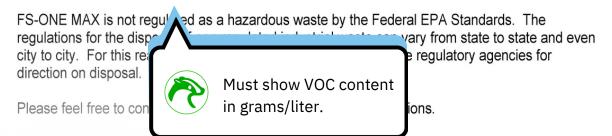
December 19, 2021

To Whom It May Concern:

Re: Hilti FS-ONE Max Firestop - LEED Info.

The Hilti FS-ONE MAX Firestop is manufactured in Germany.

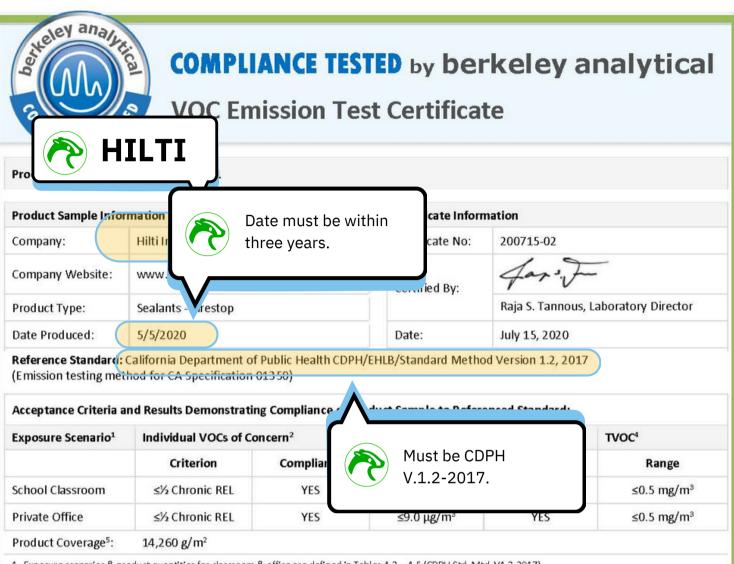
There is no post-consumer or post-industrial content in FS-ONE MAX and it cannot be recycled. The VOC content for FS-ONE MAX is 9 grams/liter.



Sincerely,

Hilti, Inc. 5400 South 122nd East Avenue Tulsa, OK 74146

> 1-800-879-8000 www.hilti.com



1. Exposure scenarios & product quantities for classroom & office are defined in Tables 4-2 - 4-5 (CDPH Std. Mtd. V1.2-2017)

2. Maximum allowable concentrations of individual target VOCs are specified in Table 4-1 (ibid.)

3. Maximum allowable formaldehyde concentration is ≤9 µg/m³, effective Jan 1, 2012; previous limit was ≤16.5 µg/m³ (ibid.)

4. Informative only; predicted TVOC Range in three categories, i.e., ≤0.5 mg/m³, >0.5 - 4.9 mg/m³, and ≥5.0 mg/m³

5. Informative and applicable only to tests of wet-applied products; grams of sample applied per square meter of substrate

Standards & Codes Recognizing CDPH Standard Method V1.2 (partial list)

- USGBC LEED Version 4. BD&C. ID&C.
- The WFIT Building Standard
- ANSI/GBI 01. Green Building Assessment Protocol

Narrative: Hilti Inc. selected a sample representative of its FS-ONE MAX - 2101531 firestop sealant product and submitted it on 6/10/2020 for testing. Berkeley Analytical measured and evaluated the emissions of VOCs from this sample following CDPH/EHLB/Standard Method V1.2-2017. The results of the test are presented in Berkeley Analytical report, 1031-007-03A-Jul1520.

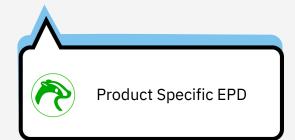
Berkeley Analytical is an independent, third-party laboratory specializing in the analysis of organic chemicals emitted by and contained in building products, finishes, furniture, and consumer products. We are an ISO/IEC 17025 accredited laboratory (IAS, <u>TL-383</u>); all standards used in performing this test are in Berkeley Analytical's scope of accreditation.

DISCLAIMER: THIS CERTIFICATE OF COMPLIANCE AFFIRMS THAT: 1) A SAMPLE OF THE LISTED PRODUCT WAS TESTED ACCORDING TO THE REFERENCED STANDARD; 2) THE MEASURED VOC EMISSIONS FROM THE SAMPLE WERE EVALUATED FOR THE DEFINED EXPOSURE SCENARIO(S); AND 3) THE RESULTS MEET THE ACCEPTANCE CRITERIA OF THE REFERENCED STANDARD(S). BERKELEY ANALYTICAL IS NOT RESPONSIBLE FOR ANY CLAIMS REGARDING A PRODUCT OR PRODUCTS ENTERED INTO COMMERCE THAT MAY BE BASED ON THIS TEST. BERKELEY ANALYTICAL PROVIDES THIS CERTIFICATE OF COMPLIANCE "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.

©2019 Berkeley Analytical, 815 Harbour Way South, Suite 6, Richmond, CA 94804 / 510-236-2325 / www.berkeleyanalytical.com

ENVIRONMENTAL PRODUCT DECLARATION

GOLD BOND® XP® GYPSUM BOARD AND GOLD BOND® XP® FIRE-SHIELD® GYPSUM BOARD





| Building Products | Building Products | 5/8" PFIRE-SHIELD | |
|-----------------------------------|---|----------------------|----------------------|
| Pulo Bood | Gold Bond [®] Building Products | 5/8" XP FIRE-SHIELD | GridMarX GridMarX |
| 108 blob Boibling Produ | Gold Bond * Building Products | 5/8" CP FIRE-SHIELD. | GridMarXG |
| ora gnibliug | Gold Bond® Building Products | 5/8" PFIRE-SHIELD. | GridMarX |
| Buipling | Gold Bond® Building Products | 5/8" XP FIRE OTHERS | GridMarX (|
| | Cold Bond* | DERE-Shie | Marx |





Gold Bond^{*} Building Products



| Manufacturer Name and Address | www.nsf.org Gold Bond Building Products, LLC 2001 Rexford Road |
|--|---|
| Manufacturer Name and Address | Charlotte, NC 28211 |
| Declaration Number | EPD10792 |
| Declared Product and Declared Unit | 92.9 m2 (1,000 square feet) of Gold Bond® XP® Gypsum Board 1/2 inch and Gold Bond® XP® Fire-Shield® Gypsum Board 5/8 inch |
| Reference PCR and Version Number | NSF PCR for Gypsum Panel Products (Version 1.1, 2020) |
| Product's Intended Application and Use | Products are designed to provide extra protection against mold and mildew. Applications include wood- and steel-framed construction for interior wall and ceiling applications. |
| Product RSL | 75 years |
| Markets of Applicability | North America |
| Date of Issue | 10/21/2022 |
| Period of Validity | 5 years from date of issue |
| EPD Type | Product Specific |
| Range of Dataset Variability | N/A |
| EPD Scope | Cradle-to-Gate Salid to |
| Year of reported manufacturer primary data | 2020 CoBi 10 0 0 71 |
| LCA Software and Version Number | Gabi 10.0.0.7 1 |
| LCI Database and Version Number | GaBi Database 2021.2 |
| LCIA Methodology and Version Number | TRACI 2.1 and IPCC AR5 |
| The sub-category PC External Review | Thomas P. Gloria, Industrial Ecology Consultants Bill Stough, Sustainable Research Group Jack Geibig, EcoForm Tony Favilla |
| This declaration was inc | afavilla@nsf.org |
| with ISO 14025: 2006. 1 | |
| Products (Version 1.1) server as the core PCK. | 6. |
| □ Internal ⊠External | D Aailla |
| This life cycle assessment was conducted in accordance with ISO 14044 and the reference PCR by: | Lindsay Bonney, WAP Sustainability Consulting, LLC |
| This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by: | Jack Geibig - EcoForm jgeibig@ecoform.com |
| Limitations: | |

Environmental declarations from different programs (ISO 14025) may not be comparable.

Only EPDs prepared from cradle-to-grave life-cycle results and based on the same function, reference service life, and quantified by the same functional unit, and meeting all the conditions in ISO 14025, Section 6.7.2, can be used to assist purchasers and users in making informed comparisons between products.

Full conformance with the PCR for Products allows EPD comparability only when all stages of a life cycle have been considered. However, variations and deviations are possible. Example of variations: Different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared.

Additional information on the life cycle assessment can be found by contacting National Gypsum directly.

DESCRIPTION OF COMPANY

National Gypsum Company, headquartered in Charlotte, NC, is the exclusive service provider of reliable, high-performance building products manufactured by its affiliate companies and marketed under the Gold

Bond®, ProForm®, and PermaBASE



PRODUCT DESCRIPTION

Gold Bond[®] XP[®] Gypsum Board and Gold Bond[®] XP[®] Fire-Shield Gypsum were designed to provide extra protection against mold and mildew compared to standard gypsum board products. These products are available with a regular (1/2-inch board) and a specially treated, fire-resistant, Type X gypsum core (5/8-inch board). 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 the panels are tapered. With purple paper on the face side, mold, mildew, and moisture resistance, and 100% recycled gray paper on the back side, you can count on XP Gypsum Board to help protect your projects from mold.

This EPD includes representative products manufactured by National Gypsum's affiliate, Gold Bond Building Products, produced at the facilities shown in the table below. The facilities shown below produce XP boards in both thicknesses covered under this study: 1/2 inch and 5/8 inch. A weighted average of each

Table 1: Manufacturing Facilities

manufacturing input (energy, water, waste, etc.) was utilized based made at multiple facilities.

If your facility is listed here, you can use it.

| Manufacturing | Manufacturing/Wallboard Plants | | | | | |
|--------------------|--------------------------------|--|--|--|--|--|
| Apollo Beach, FL | Portsmouth, NH | | | | | |
| Baltimore, MD | Richmond, CA | | | | | |
| Burlington, NJ | Rotan, TX | | | | | |
| Fort Dodge, IA | Savannah, GA | | | | | |
| Long Beach, CA | Shippingport, PA | | | | | |
| Medicine Lodge, KS | Shoals, IN | | | | | |
| Mount Holly, NC | Waukegan, IL | | | | | |
| National City, MI | Westwego, LA | | | | | |
| Phoenix, AZ | Wilmington, NC | | | | | |

Paper and gypsum used in the products are sourced from the plants below. These materials tend to be sourced from the paper plant and quarry nearest to the wallboard/manufacturing plant but that is not always the case.

| Table 2: | Paper | Plants | and | Quarries |
|----------|-------|--------|-----|----------|
|----------|-------|--------|-----|----------|

| Paper Plants | Quarries |
|--------------|----------------------|
| Anniston, AL | Halifax, Nova Scotia |
| Milton, PA | Fort Dodge, IA |



Prepared By

Trang Schwartz National Gypsum Company (704) 365-7300 Ext. 7625 Trangs@nationalgypsum.com



Recycled content shown as pre-consumer and/or post consumer.

National Gypsum Sustainable Materials Data Sheet

Recycled Content

| Product Name | Manufacturing Location | Post Cor sumer | Pre Consumer | Materials Cost |
|---|------------------------|----------------|--------------|----------------|
| Gold Bond® XP® Fire-Shield® Gypsum Board | Shippingport, PA | 5% | 95% | |
| Gold Bond® Fire-Shield® Gypsum Board | Shippingport, PA | 5% | 95% | |
| Gold Bond® eXP® Shaftliner | Baltimore, MD | 0% | 0% | |
| Gold Bond® eXP® Fire-Shield® Tile Backer | Savannah, GA | 0% | 0% | |
| ProForm® All Purpose Joint Compound | Belcamp, MD | 0% | 0% | |
| ProForm® Multi-Use Joint Compound | Belcamp, MD | 0% | 0% | |
| ProForm [®] Quick Set Lite [™] Setting Compound | Rensselaer, IN | 0% | 0% | |

Gold Bond® Gypsum Board

Gypsum board face and back paper is made of 100% post-consumer recycled content.

Gypsum board recycled content varies by manufacturing location.

The Post and Pre Consumer recycled content for gypsum and paper facings meet the defintion of recycled content per ISO 14021.

ProForm® Finishing Products do not have recycled content; however, they may contribute in other categories covered in this report.

Report results are based on current distribution plan and manufacturing location capabilities. Gold Bond® Building Products, LLC, PermaBASE® Building Products, LLC and ProForm® Finishing Products, LLC reserve the right to determine the plant from which products will be shipped.

Gold Bond[®] Gypsum Board products with higher recycled content may be available for projects in Northeastern and Mid-Atlantic states. Please contact your local National Gypsum Sales Representative or call 1-800-NATIONAL for assistance.

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.

Corporate Headquarters

National Gypsum Company 2001 Rexford Road Charlotte, NC 28211 Phone: (704) 365-7300 Web: NationalGypsum.com Technical Information Phone: (800) NATIONAL (800) 628-4662



Gold Bond® XP® Fire-Shield® Gypsum Board by Gold Bond Building Products, LLC provided by National Gypsum Company

created via: HPDC Online Dailder

Version 2.1 or

higher.

Health Product

HPD UNIQUE IDENTIFIER: 24607

Section 1: Summary

CLASSIFICATION: 09 20 00 Plaster and Gypsum Board

PRODUCT DESCRIPTION: Gold Bond® XP® Fire-Shield® Gypsum Board consists of a mold-, mildew-, mois with a specially designed PURPLE® paper. The heavy PURPLE face paper and the gray back paper are 100mold, mildew and moisture. For speed of installation, GridMarX® guide marks are printed on the paper su Fire-Shield® Gypsum Board (5/8"). National Gypsum Company is the exclusive service provider for product Products, LLC; PermaBASE Building Products, LLC; and ProForm Finishing Products, LLC.

Nested Method / Product Threshold

CONTENT INVENTORY

Product

Inventory Reporting Format Nested Materials Method Basic Method Threshold Disclosed Per O Material

100 ppm
 1,000 ppm
 Per GHS SDS
 Other

Threshold level

Residuals/Impurities Residuals/Impurities Considered in 2 of 2 Materials **Explanation(s) provided for Residuals/Impurities?** • Yes O No

All Substances Above the Threshold Indicated Are: Characterized Yes Ex/SC ○ Yes ○ No % weight and role provided for all substances except SC substances characterized according to SC guidance. • Yes Ex/SC • Yes • No All substances screened using Priority ened re a Yes 🖸 No Id Either Yes bubble 0 ame (Specific is accepted ore Special 0

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.

Must be 100 ppm

or 1,000 ppm.

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

GYPSUM CORE [GYPSUM LT-UNK GLASS / MINERAL FIBER LT-UNK STARCH LT-UNK GLUCOSE BM-3 POLYVINYL ALCOHOL LT-UNK MONTAN WAX LT-UNK PARAFFIN LT-UNK QUARTZ LT-1 | CAN BORIC ACID LT-1 | END | REP | DEV | MUL METAPHOSPHORIC ACID (H3P309), TRISODIUM SALT LT-UNK POTASSIUM SULFATE LT-UNK POLIGNATE SODIUM LT-UNK SODIUM SULFATE ANHYDROUS LT-UNK SODIUM POLYNAPHTHALENESULFONATE LT-P1 | PBT VERMICULITE NOGS SILOXANES AND SILICONES, DI-ME, POLYMERS WITH 3-MERCAPTOPROPYL SILSESQUIOXANES LT-UNK PAPER FACING [SC:RECYCLED PAPER NOT Screened UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1

Nanomaterial ... No

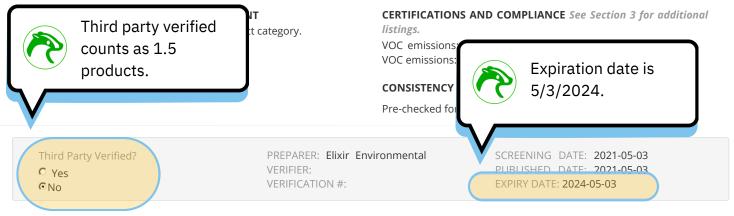
INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "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.

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 100 parts per million (ppm) in the finished product, along with the role and percent weight. Substances

"Not Screened" are those with Special Conditions exceptions (Biological Materials).



Gold Bond XP Fire-Shield Gypsum Board hpdrepository.hpd-collaborative.org

HPD v2.2 created via HPDC Builder Page 1 of 10

CERTIFICATE OF COMPLIANCE



Gold Bond Building Products, LLC provided by National Gypsum Company

Gold Bond[®] XP[®] Fire-Shield[®] Gypsum Board 86378-420

Certificate Number

03 Mar 2017 - 28 Dec 2023 Certificate Period

Certified

Status

UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings



UL investigated representative samples of "Agreement"). The Certificate Holder is au dates unless there is non-compliance with



rdance with the agreements and any applicable program service terms in place between UL and the Certificate Holder (collectively ction site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified

GREENGUARD Gold Certification Criteria for Building Products and Interior Finishes

| Criteria | CAS Number | Maximum Allowable Predicted Concentration | Units |
|--------------------------------------|------------|--|------------|
| TVOC (A) | - | 0.22 | mg/m |
| Formaldehyde | 50-00-0 | 9 (7.3 ppb) | 3 |
| Total Aldehydes (B) 4- | - | 0.043 | µg/m³ |
| Phenylcyclohexene | 4994-16-5 | 6.5 | ppm |
| Particle Matter less than 10 μm | - | 20 | µg/m³ |
| (C) 1-Methyl-2-pyrrolidinone (D) | 872-50-4 | 160 | µg/m³ |
| Individual VOCs (E) | _ | 1/2 CREL or 1/100th TLV | μg/m³ - |

- (b) Defined to be the total response of measured VOCs falling within the C6 C16 range, with responses calibrated to a toluene surrogate. Maximum allowable predicted TVOC concentrations for GREENGUARD Gold (0.22 mg/m³) fall in the range of 0.5 mg/m³ or less, as specified in CDPH Standard Method v1.2.
- (B) The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.
- (C) Particle emission requirement only applicable to HVAC Duct Products with exposed surface area in air streams (a forced air test with specific test method) and for wood finishing (sanding) systems.
- (D) Based on the CA Prop 65 Maximum Allowable Dose Level for inhalation of 3,200 µg/day and an inhalation rate of 20 m³/day
- (E) Allowable levels for chemicals not listed are derived from the lower of 1/2 the California Office of Environmental Health Hazard Assessment (OEHHA) Chronic Reference Exposure Level (CREL) as required per the CDPH/EHLB/Standard Method v1.2 and BIFMA level credit 7.6.2 and 1/100th of the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438).

TVOC Range must also be shown on the certificate.



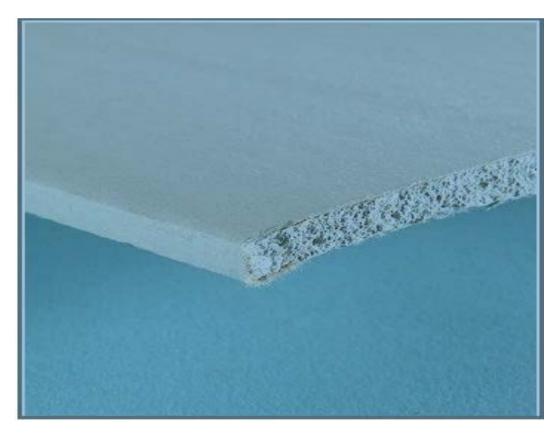
UL investigated representative samples of the identified Product(s) to the identified Standard(s) or other requirements in accordance with the agreements and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"). The Certificate Holder is authorized to use the UL Mark for the identified Product(s) manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified dates unless there is non-compliance with the Agreement.



An Environmental Product Declaration

According to ISO 14025:2006 and ISO 21930:2017

An industry average cradle-to-gate EPD for 5/8" Type X Conventional Gypsum Board produced by Gypsum Association member companies for the USA and Canadian Markets.



NSF Certification, LLC Ann Ar bor, MI www.nsf.org

Date of issue: 28/04/2020 Period of validity: 5 years Declaration No.: EPD 10270



National Gypsum is a part of this EPD.

| CYDCUM | | | | |
|-----------------------------|---|--|--|--|
| ASSOCIATION | Industry Average EPD for ⁵ / ⁸ " Type X Conventional Gypsum Board | | | |
| General Summary | | | | |
| National | National Gypsum Company | | | |
| National | 2001 Rexford Road | | | |
| <i>Gypsum</i> 。 | Charlotte, North Carolina 28211, USA | | | |
| Jpourre | Menber Link (URL): | | | |
| | http://nationalgypsum.com/ | | | |
| PABCO Gypsum | PABCO® Gypsum | | | |
| what the job demands' | 10600 White Rock Road, Suite 100 | | | |
| | Rancho Cordova, CA 95670, USA | | | |
| | Member Link (URL): | | | |
| | http://www.pabcogypsum.com/ | | | |
| | United States Gypsum Company | | | |
| | 550 West Adams Street | | | |
| USG | Chicago, IL 60661-3676, USA | | | |
| | Member Link (URL): | | | |
| | https://www.usg.com/content/usgcom/en.html | | | |
| | | | | |
| IT'S YOUR WORLD. BUILD IT.* | Canadian Gypsum Company (CGC) Inc. | | | |
| | 350 Burnhamthorpe Road West | | | |
| | 5th Floor Mississauga, ON, L5B 3J1, Canada | | | |
| | Member Link (URL): | | | |
| | https://www.usg.com/content/usgcom/en CA east.html | | | |
| Product Group and Name | Gypsum board | | | |
| Product Description | Gypsum board is the generic name for a family of sheet | | | |
| | products consisting of a non-combustible core primarily of | | | |
| | gypsum with a paper facing [5], [8] (UNCPC Code 3699, | | | |
| | NAICS Code 327420). | | | |
| Product Category Rules | NSF International, Product Category Rule for Environmental | | | |
| (PCR) | Product Declarations, PCR for Gypsum Panel Products, | | | |
| | April 2020 [5]. | | | |
| Certification Period | 28.04.2020 - 27.04.2025 | | | |
| Declared Unit | 92.9 m ² (1,000 square feet) of ⁵ / ₈ " (15.9 mm) Type X | | | |
| | conventional | | | |
| NSF Declaration Number | EPD 10270 Valid to | | | |
| | 4/28/2025 | | | |
| NSF Certification, LLC | Date of issue: 28/04/2020 | | | |
| Ann Arbor, MI | Period of validity: 5 years | | | |
| www.nsf.org | Declaration No.: EPD 10270 | | | |
| | | | | |



EPD and Project Report Information

| Program Operato | r | NSF Certification, LLC Gypsum Association (GA) | | | |
|------------------|---------------|---|--------------------|--|--|
| Declaration Hold | ər | | | | |
| Product group | Date of Issue | Period of Validity | Declaration Number | | |
| Gypsum board | 28.04.2020 | 5 years | EPD 10270 | | |

Declaration Type

A "cradle-to-gate" EPD for ⁵/₈" Type X conventional gypsum board manufactured by GA members. Activity stages or information modules covered include production with the product ready for shipment at the manufacturing plant (modules A1 to A3). The declaration is intended for use in Business-to-Business (B-to-B) communication.

Applicable Countries

United States and Canada

Product Applicability

Gypsum board products are used extensively in building construction and renovation as an enclosing surface for interior walls and ceilings providing a finishing surface as well as mold and fire resistance.

Content of the Declaration

This declaration follows *Section 9*; *Content of an EPD*, NSF International, Product Category Rule for Environmental Product Declarations: PCR for Gypsum Panel Products, April 2020 [5].

| This EPD was independently verified by NSF in accordance with ISO 14025 and the reference PCR: | Jenny On |
|--|---|
| Internal <u>External</u> X | Jenny Oorbeck, joorbeck@nsf.org |
| The Project Report | An Industry Average Cradle-to-Gate Life Cycle Assessment of ¹ / ₂ " Lightweight and ⁵ / ₈ " Type X conventional Gypsum Board for the USA and Canadian Markets, April 2020. |
| Athena Sustainable Materials Institute | Lindita Bushi, Ph.D. and Mr. Jamie Meil Athena Sustainable Materials Institute <u>info@athenasmi.org</u> <u>www.athenasmi.org</u> |

| NSF Certification, LLC Date of issue: 28/04/2 | | |
|---|-----------------------------|--|
| Ann Arbor, MI | Period of validity: 5 years | |
| www.nsf.org | Declaration No.: EPD 10270 | |

CERTIFICATE OF COMPLIANCE



Gold Bond Building Products, LLC provided by National Gypsum Company

Gold Bond® Fire-Shield® Gypsum Board 7196-420

Certificate Number

31 Dec 2008 - 28 Dec 2023 Certificate Period

Certified

Status

UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Building products and interior finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 sing an Office and Classroom Environment.



UL investigated representative samples of the identified Product(s) to the "Agreement"). The Certificate Holder is authorized to use the UL Mark for dates unless there is non-compliance with the Agreement.



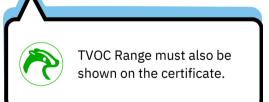
Must be CDPH V.1.2-2017.

any applicable program service terms in place between UL and the Certificate Holder (collectively st Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified

GREENGUARD Gold Certification Criteria for Building Products and Interior Finishes

| Criteria | CAS Number | Maximum Allowable Predicted Concentration | Units |
|---|------------|--|-------------------|
| TVOC (A) | - | 0.22 | mg/m |
| Formaldehyde | 50-00-0 | 9 (7.3 ppb) | μg/m [»] |
| Total Aldehydes (8) | | 0.043 | ppm |
| 4-Phenylcyclohexene | 4994-16-5 | 6.5 | μg/m² |
| Particle Matter less than 10 μ m $_{(C)}$ | | 20 | μg/m [»] |
| 1-Methyl-2-pyrrolidinone (D) | 872-50-4 | 160 | μg/m³ |
| Individual VOCs (E) | - | 1/2 CREL or 1/100th TLV | - |

- (A) Defined to be the total response of measured VOCs falling within the Cs Cis range, with responses calibrated to a toluene surrogate. Maximum allowable predicted TVOC concentrations for GREENGUARD Gold (0.22 mg/m³) fall in the range of 0.5 mg/m³ or less, as specified in CDPH Standard Method v1.2.
- (B) The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.
- (C) Particle emission requirement only applicable to HVAC Duct Products with exposed surface area in air streams (a forced air test with specific test method) and for wood finishing (sanding) systems.
- (D) Based on the CA Prop 65 Maximum Allowable Dose Level for inhalation of 3,200 µg/day and an inhalation rate of 20 m³/day
- (E) Allowable levels for chemicals not listed are derived from the lower of 1/2 the California Office of Environmental Health Hazard Assessment (OEHHA) Chronic Reference Exposure Level (CREL) as required per the CDPH/EHLB/Standard Method v1.2 and BIFMA level credit 7.6.2 and 1/100th of the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438).





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UL investigated representative samples of the identified Product(s) to the identified Standard(s) or other requirements in accordance with the agreements and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"]. The Certificate Holder is authorized to use the UL Mark for the identified Product(s) manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified dates unless there is non-compliance with the Agreement.