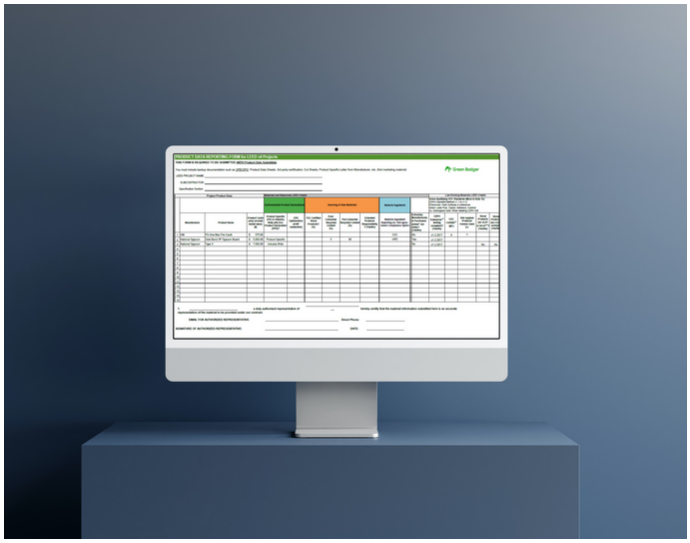
Green Badger

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)

Green Badger

LEED PROJECT NAME: _____

SUBCONTRACTOR: _____

Specification Section: _____

	Project Product Data			*Materials and Resources LEED Credits*								*Low-Emitting Materials LEED Credits*				
				Environmental Product Declarations		**Sourcing of Raw Materials**				**Material Ingedients**		**Some Qualifying VOC Standards (More in Note 10):** CDPH Standard Method v1.1 or v1.2; FloorScore: Hard Surfaces & Adhesives; Green Label Plus: Carpet, Adhesive, Cushion; UL Greengaurd Gold: When Meeting CDPH Std				
	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	Type X	$ 7,500.00	Industry Wide							No	v1.2 2017			No	No
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

I, _____ a duly authorized representative of _____ hereby certify that the material information submitted here is an accurate representation of the material to be provided under our contract.

EMAIL FOR AUTHORIZED REPRESENTATIVE: _____ **Direct Phone:** _____

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____ **DATE:** _____

CRADLE TO CRADLE PRODUCTS INNOVATION INSTITUTE

Material Health must be Bronze or higher.

Material Health

BRONZE

FS-ONE MAX Firestop Sealant / CFS-FIL Firestop Filler Mastic

ISSUED TO Hilti Corporation

STANDARD 3.1

EXPIRES 1 November 2024

LEAD ASSESSMENT BODY
MBDC

PHASES AND PI **HE CHEMI** **TOXICITY ASSESSMENT**
Final manufacturi nd of use: g, incineration, uncontrolled burn

PRODUCTS COVERED
FS-ONE MAX Firestop Sealant / CFS-FIL Firestop Filler Mastic with product codes: 21 2052899, 2245696.

HILTI

Expiration date is 11/1/2024.

PRODUCT OPTIMIZATION SUMMARY

- ☑ *Cradle to Cradle Certified*® Banned List compliant
- ☑ Material Health optimization strategy developed
- ☐ N agens, or reproductive toxicants
- ☐ M ements
- ☐ P contain any GREY or x-assessed chemicals
- ☐ P ified and none are GREY or x-assessed

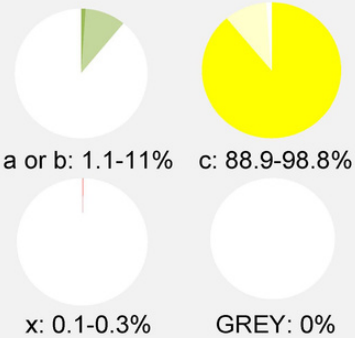
Percentage must be 90% or higher.

PERCENTAGE OF CHEMICAL SUBSTANCES ASSESSED BY WEIGHT

100%

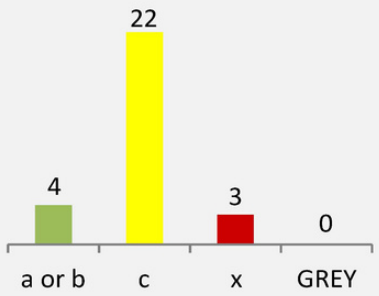
Inventory threshold for chemicals in each material = 100 ppm

ASSESSMENT RATINGS BY WEIGHT



% CHEMICAL SUBSTANCES

PRODUCT OPTIMIZATION



29 CHEMICAL SUBSTANCES

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.

FS-ONE MAX is not regul[illegible]ed as a hazardous waste by the Federal EPA Standards. The regulations for the disp[illegible] vary from state to state and even city to city. For this rea[illegible]e regulatory agencies for direction on disposal.

Please feel free to con[illegible]ions.

Must show VOC content in grams/liter.

Sincerely,

Jerry [illegible] CHMM
Sr. [illegible] Environmental
Hilti
(918) [illegible]
jerry.[illegible].com

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

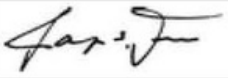
1-800-879-8000
www.hilti.com

COMPLIANCE TESTED by berkeley analytical

VOC Emission Test Certificate

HILTI

Date must be within three years.

Product Sample Information		Certificate Information	
Company:	Hilti I	Certificate No:	200715-02
Company Website:	www.	Certified By:	
Product Type:	Sealants - Firestop		Raja S. Tannous, Laboratory Director
Date Produced:	5/5/2020	Date:	July 15, 2020

Reference Standard: California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017
(Emission testing method for CA Specification 01350)

Must be CDPH V.1.2-2017.

Acceptance Criteria and Results Demonstrating Compliance of Product Sample to Referenced Standard:

Exposure Scenario[1]	Individual VOCs of Concern[2]				TVOC[4]
	Criterion	Compliance			Range
School Classroom	≤½ Chronic REL	YES			≤0.5 mg/m³
Private Office	≤½ Chronic REL	YES	≤9.0 µg/m³	YES	≤0.5 mg/m³

Product Coverage[5]: 14,260 g/m²

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 WELL 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, TL-383); all standards used in performing this test are in Berkeley Analytical's scope of accreditation.

ENVIRONMENTAL PRODUCT DECLARATION

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

Product Specific EPD

NSF: Program Operator

Certified Environmental Product Declaration
www.nsf.org

National Gypsum®

Gold Bond®
Building Products

NSF: Program Operator

Program Operator	NSF Certification LLC 789 N. Dixboro, Ann Arbor, MI 48105 www.nsf.org
Manufacturer Name and Address	Gold Bond Building Products, LLC 2001 Rexford Road 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
Year of reported manufacturer primary data	2020
LCA Software and Version Number	GaBi 10.0.0.71
LCI Database and Version Number	GaBi Database 2021.2
LCIA Methodology and Version Number	TRACI 2.1 and IPCC AR5
The sub-category PC	• Thomas P. Gloria, Industrial Ecology Consultants • Bill Stough, Sustainable Research Group • Jack Geibig, EcoForm
This declaration was inc with ISO 14025: 2006. T Products (Version 1.1) se as the core PCR. ☐ Internal ☒External	Tony Favilla afavilla@nsf.org
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

Valid to 10/21/2027

External Review

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

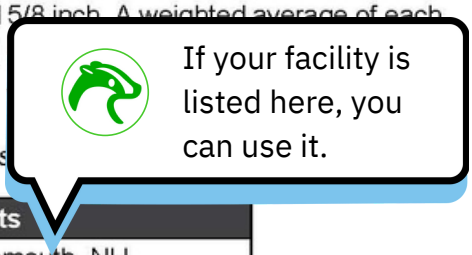


Table 1: Manufacturing Facilities

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 Consumer	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.

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

Health Product Declaration v2.2

created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 24607
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 100-
mold, 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 produc
Products, LLC; PermaBASE Building Products, LLC; and ProForm Finishing Products, LLC.

Version 2.1 or higher.

Section 1: Summary

Nested Method / Product Threshold

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
- ( ) Other

Must be 100 ppm or 1,000 ppm.

Residuals/Impurities

Residuals/Impurities Considered in 2 of 2 Materials

Explanation(s) provided for Residuals/Impurities?
(•) Yes ( ) 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 Hazard Lists with res… ened ac…

Id… ( ) Yes (•) No

O… ame (Specific or… ore Special Co… and Reporting guidance.

Either Yes bubble is accepted

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

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 (H3P3O9), 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).

Third party verified counts as 1.5 products.

…NT
…t category.

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*

VOC emissions…
VOC emissions:…

CONSISTENCY

Pre-checked fo…

Expiration date is 5/3/2024.

Third Party Verified?
( ) Yes
(•) No

PREPARER: Elixir Environmental
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2021-05-03
PUBLISHED DATE: 2021-05-03
EXPIRY DATE: 2024-05-03

CERTIFICATE
OF COMPLIANCE

GREENGUARD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818
GOLD

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

Wall finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using a Classroom Environment with an air change of 0.82 hr^{-1} and a loading of 94.60 m^2. ; and Wall finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using an Office Environment with an air change of 0.68 hr^{-1} and a loading of 33.40 m^2.

Must be CDPH V.1.2-2017.

UL investigated representative samples of ... ordance with the agreements and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"). The Certificate Holder is au... ction 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...

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 -

(A) 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.

Industry-wide EPD:
Gypsum Association

National Gypsum

GYPSUM ASSOCIATION

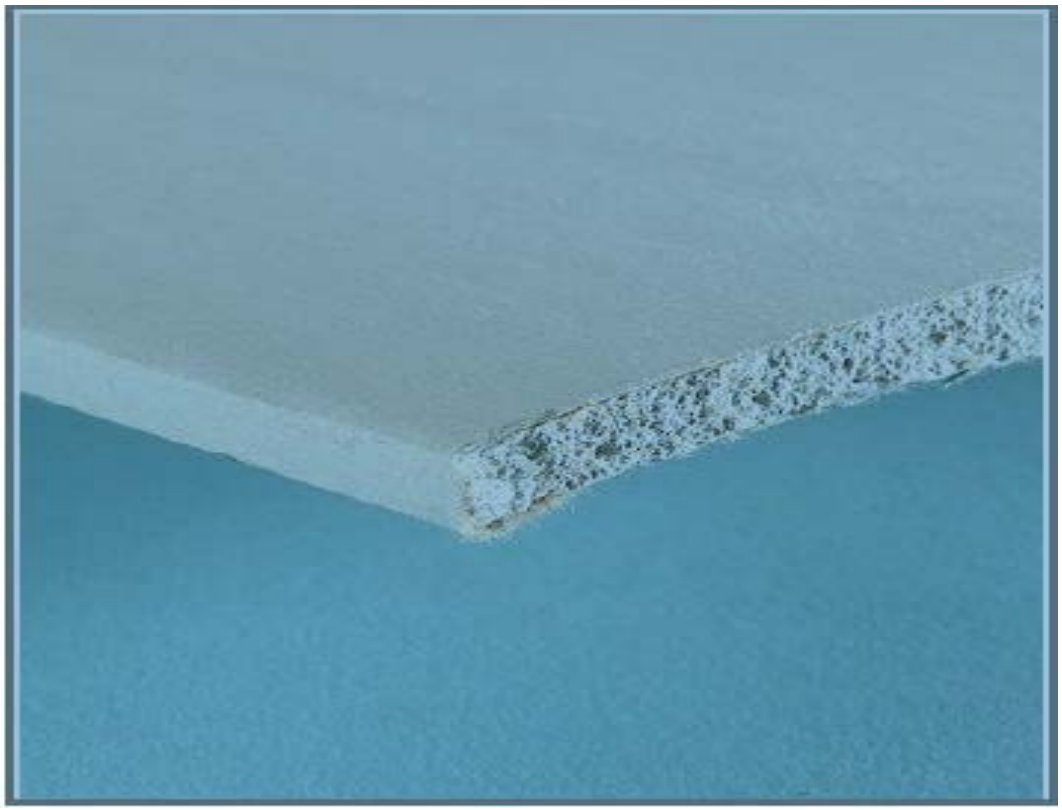
NSF

Certified Environmental Product Declaration
www.nsf.org

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.

GYPSUM ASSOCIATION

Industry Average EPD for $^{5}/_{8}$" Type X Conventional Gypsum Board

General Summary

National Gypsum	National Gypsum Company 2001 Rexford Road Charlotte, North Carolina 28211, USA Member Link (URL): http://nationalgypsum.com/
PABCO Gypsum what the job demands	PABCO® Gypsum 10600 White Rock Road, Suite 100 Rancho Cordova, CA 95670, USA Member Link (URL): http://www.pabcogypsum.com/
USG CGC IT'S YOUR WORLD. BUILD IT.™	United States Gypsum Company 550 West Adams Street Chicago, IL 60661-3676, USA Member Link (URL): https://www.usg.com/content/usgcom/en.html 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 (PCR)	NSF International, Product Category Rule for Environmental 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
Ann Arbor, MI
www.nsf.org

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

EPD and Project Report Information			
Program Operator		NSF Certification, LLC	
Declaration Holder		Gypsum Association (GA)	
Product group Gypsum board	**Date of Issue** 28.04.2020	**Period of Validity** 5 years	**Declaration Number** 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: **Internal** **External** 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 info@athenasmi.org www.athenasmi.org

External

CERTIFICATE
OF COMPLIANCE

GREENGUARD

PRODUCT CERTIFIED FOR
LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818

GOLD

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 using an Office and Classroom Environment.

Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2.

UL investigated representative samples of the identified Product(s) to the ... 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 ... 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.

Must be CDPH V.1.2-2017.

GREENGUARD Gold Certification Criteria for Building Products and Interior Finishes

Criteria	CAS Number	Maximum Allowable Predicted Concentration	Units
TVOC (A)	-	0.22	mg/m³
Formaldehyde	50-00-0	9 (7.3 ppb)	µg/m³
Total Aldehydes (B)	-	0.043	ppm
4-Phenylcyclohexene	4994-16-5	6.5	µg/m³
Particle Matter less than 10 µm (C)	-	20	µg/m³
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 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.