

PRODUCT ATTRIBUTE REPORT

Transparency Declaration


USG Sheetrock® Brand EcoSmart Panels Firecode® X

Manufactured by United States Gypsum Company

West – Galena Park, TX, Plaster City, CA, Rainier, OR, Shoals, IN, Sigurd, UT, Sperry, IA, Sweetwater

This product transparency report summarizes the environmental performance and chemical inventory of the ingredients in USG Sheetrock® Brand EcoSmart Firecode® X Panels for building professionals and those seeking to understand the product's life-cycle impacts. The data presented in this document may be helpful for obtaining LEED® v4 credits.

SUSTAINABILITY DATA






Corporate Sustainability Report	www.usg.com/sustainability	Certifications/Labels:
Low VOC Materials	CDPH 01350 v1.1-2010 compliant	
Total VOCs after 14 days	0.5 mg/m³ or less	
VOC Content	Not applicable	
Rapid Renewing Materials	0.9%	
USDA BioPreferred®	Yes	
Living Building Challenge™ Compliant	Yes	

REGIONAL MATERIALS & RECYCLED CONTENT

Manufacturing Plant	Raw materials ≤500 miles	Raw materials ≤100 miles	Pre-Consumer recycled content	Post-Consumer recycled content
Galena Park, TX	8.9%	5.5%	93.1%	1.4%
Plaster City, CA	88.6%	88.6%	0.6%	5.4%
Rainier, OR	8.8%	8.8%	0.6%	12.7%
Shoals, IN	94.1%	88.6%	89.3%	5.2%
Sigurd, UT	88.6%	88.6%	5.8%	0.0%
Sperry, IA	94.1%	88.6%	1.5%	5.2%
Sweetwater, TX	88.6%	88.6%	1.4%	4.5%

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

Data shown below is based on the product specific EPD. Environmental impact per 1,000 ft² gypsum board

ATMOSPHERE			WATER		PRIMARY ENERGY/SERVICE LIFE/END OF LIFE
					Primary Energy: 4296 MJ Assumed Service Life: Life of building with minor repair and standard maintenance. End of Life Use: Reground drywall can be used for many of the same applications as natural gypsum such as soil amendment, neutralizing pH, and pond filtering.
Global Warming Potential	Ozone Depletion Potential	Photochemical Ozone Creation Potential	Acidification Potential	Eutrophication Potential	
232.0 kg CO ₂ eq	2.37E-07 kg CFC-11 eq	8.29 kg O ₃ eq	0.493 SO ₂ eq	2.89E-02 kg N eq	

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HEALTH PRODUCT TRANSPARENCY – LEED v4 Qualification MR Credit: Product Disclosure and Optimization

Option 1 Material Ingredient Reporting Manufacturer Inventory (1 Point)

Ingredients are listed in order of content in the final product. Information provided for ingredients down to 1,000 ppm (0.1% of product composition). All ingredients were screened using GreenScreen® List Translator. Ingredients on a hazard list are marked with a (X). Percent may change due to manufacturing variations.

Ingredient	CAS RN	Percent	Role	Chemical Review								Notes
				LBC Red List ¹	List Translator ²							
					IARC ³	MAK ⁴	NTP-RoC ⁶	Prop 65 ⁶	REACH ⁷	USEPA TRI ⁸	Other GS Lists	
Gypsum	13397-24-5	87.0-90.0%	Core									
Cellulose	9004-34-6	5.5 – 7.5%	Paper face									
Vermiculite	1318-00-9	2.7 – 3.2%	Heat endurance									
Starch	9005-25-8	0.1 – 1.5%	Binder									
Proprietary	Undisclosed	0.05 – 0.4%	Core strengthener									Highest concern GreenScreen® score - LT-U
Fiberglass	65997-17-3	0.3– 0.7%	Reinforcement									
Dextrose	50-99-7	0.05 – 0.2%	Drying additive									



This review was prepared by an Authorized GreenScreen® Practitioner

GreenScreen® Benchmark Score Key for List Translator Assessment

LT-1 Likely Benchmark 1 (Avoid – Chemical of High Concern)

LT-P1 Possible Benchmark 1

BM-2 Search for Safer Substitutes

BM-3 Still Opportunity for Improvement

BM-4 Prefer-Safer Chemical

LT-U Insufficient information from List Translator lists for Benchmark score

Raw materials in this product may contain trace amounts of respirable crystalline silica. Testing has shown exposures to respirable crystalline silica are not expected to exceed the OSHA Permissible Exposure Level (PEL) during the normal use of this product. See the SDS on usg.com for occupational exposure information.

REFERENCES

1. Living Building Challenge™ (LBC) Red List - A list of chemicals and materials that are known to pose a risk to human health and the ecosystem. Source: <http://living-future.org/lbc>
2. GreenScreen® List Translator: An assessment and hazard classification tool that identifies chemicals on GreenScreen Authoritative and Screening Lists. Source: <http://www.pharosproject.net/>
3. International Agency for Research on Cancer (IARC) – Specialized agency of the World Health Organization that identifies and categorizes chemicals, mixtures, occupational exposures, physical and biological agents, and lifestyle factors that can increase the risk of cancer. Source: <http://monographs.iarc.fr/ENG/Classification/ClassificationsAlphaOrder.pdf>
4. Commission of Germany Maximum Concentrations and Biological Tolerance Values at the Workplace (MAK) – Carcinogenic Substances Source: <http://onlinelibrary.wiley.com/doi/10.1002/9783527682027.ch3/pdf>
5. National Institute for Occupational Safety and Health Occupational Cancer List (NIOSH-C) – Potential occupational carcinogens. Source: <http://www.cdc.gov/niosh/topics/cancer/npotocca.html>
6. National Toxicology Program Report on Carcinogens (NTP-RoC) – Interagency program that evaluates agents of public health and provides information on toxic chemicals. Source: <http://ntp.niehs.nih.gov/pubhealth/roc/roc13/>
7. California Proposition 65 (Prop 65) – California law that regulates chemicals known to cause cancer, birth defects or other reproductive harm, and informs citizens about exposures to such chemicals. Source: http://oehha.ca.gov/prop65/prop65_list/Newlist.html
8. Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) - Candidate List of substances of very high concern for Authorization, updated 17 December 2014. Source: <http://echa.europa.eu/information-on-chemicals>

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9. United States Environmental Protection Agency Toxic Release Inventory Listed Chemicals (USEPA TRI) – Chemicals that cause cancer, chronic human health effects, significant adverse acute human health effects, or environmental effects. Source: <http://www2.epa.gov/toxics-release-inventory-tri-program/tri-listed-chemicals>

GreenScreen® for Safer Chemicals is a method for comparative Chemical Hazard Assessment (CHA) that can be used for identifying chemicals of high concern and safer alternatives. Drivers for chemical hazard assessment include regulatory standards and ecolabels including; AOEC, Boyes-N, CEPA, DOT, DSL, EPA lists, EU lists, G&L, IARC, MAK, NIOSH-C, NTP lists, NWP Priority, OR P3, OSPAR, PIC, Prop 65, Stockholm, TEDX, TRI PBT, WA PBT, WHMIS, GHS Country lists, SIN, and VwVwS. The US Green Building Council has recently included GreenScreen® in its LEED® rating system v4. The GreenScreen® List Translator can be used to quickly identify GreenScreen® BM 1 (Benchmark 1 and Possible Benchmark 1; Avoid - Chemical of High Concern) Chemicals. Pre and Post-Consumer recycled content as defined by the Federal Trade Commission.