

PRODUCT ATTRIBUTE REPORT

Transparency Declaration



USG Aspen™ Acoustical Ceiling Panels

Manufactured by USG Interiors, LLC

This product transparency report summarizes the environmental performance and chemical inventory of the ingredients in USG Aspen™ Acoustical Ceiling 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 Available at www.usg.com/sustainability Certifications:

Low VOC Emissions CDPH 01350 v1.1-2010 compliant

Total VOCs After 14 days 0.5 mg/m³ or less VOC Content Not applicable

Rapid Renewing Materials 7.9%





REGIONAL MATERIALS & RECYCLED CONTENT

Manufacturing Plant	ring Plant Raw materials Raw materials ≤100 miles		Pre-Consumer recycled content	Post-Consumer recycled content
Greenville, MS	2.3%	0.0%	27.7%	15.0%

Pre and Post-Consumer recycled content as defined by the Federal Trade Commission.

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

Data shown below is based on the average product specific cradle-to-grave LCA results. Environmental impacts per one square foot (12" x 12") ceiling panel.

ATMOSPHERE			WAT	ER	PRIMARY ENERGY/SERVICE LIFE/END OF LIFE
Global Warming Potential	Ozone Depletion Potential	Photochemical Ozone Creation Potential	Acidification Potential	Eutrophication Potential	Primary Energy: 10.3 MJ Assumed Service Life: Life of building with minor repair and standard maintenance. End of Life Use: All ceiling panel waste generated during installation and at end-of-life is assumed to be disposed of in an
0.468 kg CO ₂ eq	4.19E-10 kg CFC-11 eq	7.24E-07 g NO _x eq	5.50E-02 H+ moles eq	9.71E-05 kg N eq	appropriate landfill. 3rd Party Certified by UL Environment

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HEALTH PRODUCT TRANSPARENCY - LEEDv4 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 List Translator ²			Notes				
				LBC Red List ¹	IARC ³	MAK⁴	NTP-RoC ⁶	Prop 65 ⁶	REACH7	Other GS Lists	
Basemat											
Perlite	93763-70-3	30.0-40.0%	Core								
Mineral wool	65997-17-3	20.0-30.0%	Core								
Cellulose	9004-34-6	10.0-15.0%	Binder								
Starch	9005-25-8	5.0 - 10.5%	Binder								
Kaolin clay	1332-58-7	2.5 - 5.0%	Filler			X					German MAK - Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
Coating											
Kaolin clay	1332-58-7	6.0 - 8.5%	Paint filler			Х					German MAK - Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
Calcium carbonate	471-34-1	2.0 - 5.0%	Paint filler								
Melamine formaldehyde resin	9003-08-1	0.5 - 0.7%	Binder	Х							Living Future - Red List substance
Proprietary	Undisclosed	0.3 - 0.5%	Adhesive								Highest concern GreenScreen® score-LT-U
Titanium dioxide	13463-67-7	0.1 - 0.3%	Coating pigment								Since titanium dioxide is bound within the coating and not inhalable, it is excluded from several regulatory hazard lists
Crystalline silica	14808-60-7	0.1 - 2.0%	Impurity		X	X		×		X	IARC Group 1: Agent is carcinogenic to humans - inhaled from occupational sources. German MAK - Carcinogen Group 1 - Substances that cause cancer in man. Prop 65 - Cancer (airborne particles of respirable size - occupational setting).
			GreenScreen® Benchmark Score Key for List Translator Assessment								
GreenScreen® PRACTITIONER						ely Benchmark 1 (Avoid – Chemical of High Concern)					
						Possible Benchmark 1 Search for Safer Substitutes					
				M-3 Still Opportunity for Improvement				portu	unity	for Improvement	
This review was prepared by an Authorized GreenScreen® Practitioner			1-4 -U		Prefer-Safer Chemical Insufficient information from List Translator lists for Benchmark score						
				9		1113	arricit	JIIC 1111	J1111	account the Elect Translator has a for Deficilitian Scote	



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REFERENCES

- 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 Authoratative 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 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/
- 6. 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
- 7. 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
- 8. 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.

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