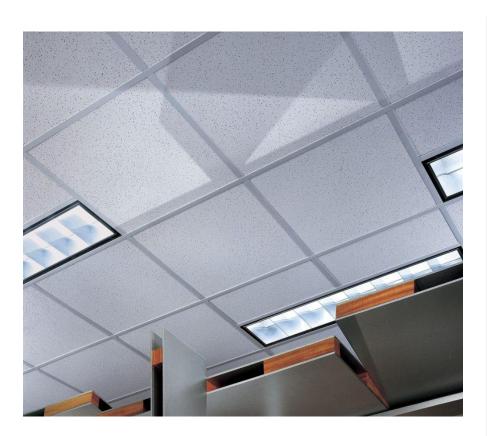
5/8" RADAR™ BASIC ACOUSTICAL PANELS GREENVILLE, MS



Quick and easy to install, these economical, all-purpose, medium-textured panels feature a unique, non-directional pattern. Radar™ Basic Acoustical Ceiling Panels are easy to clean with good sound absorption. These easily-installed panels are ideal for use in schools, corridors, lobby areas, offices and retail stores.



For over a century, sustainable practices have naturally been an inherent part of our business at USG. Today, they help shape the innovative products that become the homes where we live, the buildings where we work and the arenas where we play. From the product formulations we choose, to the processes we employ, USG is committed to designing, manufacturing, and distributing products that minimize overall environmental impacts and contribute toward a healthier living space. We believe that transparency of product information is essential for our stakeholders and EPDs are the next step toward an even more transparent USG.

For additional information, visit usg.com, cgcinc.com and usgdesignstudio.com







5/8" Radar™ Basic Acoustical Panels - Greenville, MS Acoustical Ceiling Panels

According to ISO 14025, ISO 21930: 2007 and EN 15804

This declaration is an environmental product declaration (EPD) in accordance with ISO 14025. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. Accuracy of Results: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. Comparability: EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.

PROGRAM OPERATOR	UL Enivironment				
DECLARATION HOLDER	USG				
DECLARATION NUMBER	4788655768.123.1				
DECLARED PRODUCT	5/8" Radar Basic Acoustica with ClimaPlus Performand	al Ceiling Panels-ÁÕ¦^^} çāļ ^, MÙ ce			
REFERENCE PCR	UL Part B: Non-metal Ceili	ng Panel October 2015-v.1			
DATE OF ISSUE	October 1, 2019				
PERIOD OF VALIDITY	5 Years				
CONTENTS OF THE DECLARATION The PCR review was conducted by:	Product definition and information about building physics Information about basic material and the material's origin Description of the product's manufacture Indication of product processing Information about the in-use conditions Life cycle assessment results Testing results and verifications UL Environment PCR Peer Review Panel				
This declaration was independently verif 14025 by Underwriters Laboratories ☐ INTERNAL	ied in accordance with ISO ☑ EXTERNAL	epd@ulenvironment.com Lirant R. Martin Grant R. Martin, UL Environment			
This life cycle assessment was independ with ISO 14044 and the reference PCR b	Thomas P. Gloria, Industrial Ecology Consultants				

This EPD conforms with ISO 21930:2007 and EN 15804





5/8" Radar™ Basic Acoustical Panels - Greenville, MS Acoustical Ceiling Panels

According to ISO 14025, ISO 21930:2007

1. Product System Documentation

1.1. Product Description

Product Identification

Radar™ Basic panels are an economical, all-purpose ceiling pattern available in various panel sizes. They are available as a Firecode® product designed to meet life-safety codes. This product utilizes a ground wet-felted basemat consisting of perlite, mineral wool, paper fiber and starch with varying levels of clay. The products do differ in thickness, density and coating levels with each product specifically designed to achieve the required target acoustical properties in terms of its NRC and CAC values. Additional information regarding Radar™ Basic products can be found at usg.com or cgcinc.com. This EPD includes Radar™ Basic SQ (Square) and ED (Edge Detailed) produced at the Greenville, MS plant.

These products generally fall under ASTM E1264 Section 5.2 designation as Type III—Mineral base with painted finish. The modifications typically involve modifications to the thickness, density, basemat composition and/or coating package. This EPD covers the following Radar™ Basic acoustical products: Item nos.: 2210, ME2210, 2310, ME2310, 2619, 2617, 2618, 2120, ME2120, 2320, 2627 and 2130.

1.2. Application

The products covered by this EPD are designed to be installed in a suitable metal grid system typically designed to accommodate a nominal 2'x2' or 2'x4' panel although other sizes are available and are covered by this EPD.

1.3. Technical Data

Table 1: Technical Specifications

Name	Test Method	5/8" RADAR TM BASIC SQ AND ED
Noise Reduction Coefficient (NRC)	C423	0.55
Articulation Class (AC)	E1111 and Classification E1110	N/A
Ceiling Attenuation Class (CAC)	E1414 and Classification E413	35
Fire Rating	E84 and CAN/ULC S102	Class A
Light Reflection	E1477	0.83

1.4. Placing on the Market / Application Rules

The respective standard and general technical approval for these products are indicated above. Further detail may be found on the USG.com website.

1.5. Delivery Status

The products under consideration are typically delivered in bundles of 8-16 pieces per carton, depending on size, surrounded by a cardboard sleeve and wrapped with plastic.









5/8" Radar™ Basic Acoustical Panels - Greenville, MS Acoustical Ceiling Panels According to ISO 14025, ISO 21930:2007

1.6. Base Materials

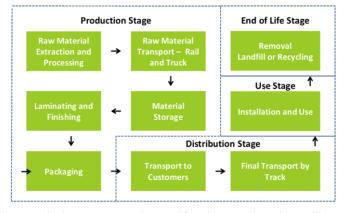
Table 2: Material Composition

M ATERIAL	5/8" RADAR TM BASIC SQ AND ED					
Mineral Wool	8.0 %					
Perlite	53.0 %					
Newspaper & Starch	24.0 %					
Coating	15.0 %					
Sum	100%					

1.7. Manufacture

Wet-felted acoustical ceiling panels contain perlite, mineral wool, paper fiber and starch. In smaller amounts, other raw materials used in the panel forming process include flocculants, biocides and defoamer. The finishing and packaging unit processes are dominated by the use of waterbased paint, which contains ingredients such as calcium carbonate, clay, latex, titanium dioxide (TiO₂) and other chemicals. Shrink-wrap and corrugated strip are used as packing materials.

In wet-felted production, the panel ingredients are mixed into a dilute slurry, which is then formed onto a wire as a basemat. The basemat is dewatered, pressed and dried. The dried panels are cut or trimmed into the appropriate sizes and



painted. Painting may involve two or more coatings with a drying cycle between coatings. After inspection, the ceiling panels are packaged for shipment. Panel trim and panels that are chipped or broken during manufacturing (referred to as "broke") are recycled and returned to the process. The plant produces its own paint coatings and the primary ingredients for these coatings are also included in the analysis.

1.8. Environment and Health During Manufacturing

All appropriate equipment required by federal, state and local regulations are in place at all USG manufacturing facilities.

1.9. Installation

The ceiling panels must be installed in accordance with all applicable USG Interiors installation guidelines. Approved installation procedures are provided in the Ceiling Systems Handbook published by the Ceiling and Interior Systems Construction Association and must be followed. Installation of USG's ceiling and grid products is accomplished by manual labor using mostly hand tools. No material or energy inputs are required on the jobsite.







5/8" Radar™ Basic Acoustical Panels - Greenville, MS Acoustical Ceiling Panels

According to ISO 14025, ISO 21930:2007

1.10. Packaging

USG Interiors ceiling panels are packaged using cardboard sleeves and are then wrapped in plastic shrink wrap. USG encourages the proper recycling of these packaging materials. Both the production and disposal of these packaging materials was modeled in this study.

1.11. Conditions of Use

To insure the longevity of the product, panels should not be exposed to moisture, high humidity or high temperature. Criteria can be found in the USG warranty information specific for each product.

1.12. Environment and Health During Use

This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. Proper personal protective gear should be worn by installer for protection.

The installed ceiling panel meets the California Department of Public Health CDPH/EHLB/Standard Method Version 1.1,2010 (Emissions Testing Method for CA Specification 01350) emissions criteria for a high-performance product with respect to harmful VOC emissions.

1.13. Reference Service Life

A default RSL of 75 years shall be assumed for the product and ceiling panel mounting system. An assumed Estimated Service Life (ESL) of 75 years shall be used for building life.

1.14. Extraordinary Effects

Fire

All ceiling products covered by this EPD are certified to be Class A (flame spread of 25 or less, smoke developed of 50 or less per ASTM E84 and CAN/ULC S102). In addition, products listed as Firecode™ meet ASTM E119 (see a USG sales representative for approved fire rated assemblies).

Water

Moisture must not come in contact with the ceiling panel as a result of a leaking roof, a sweating pipe, a leaking radiator, a flood, condensation on windows, condensation on more subtle surfaces where dew points are reached, humidified air from the HVAC system or any other similar causes.

Mechanical Destruction

The product must be installed and maintained in accordance with current USG written instructions and best industry practice, including the CISCA Handbook and ASTM C636, "Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels."

1.15. Re-Use Phase

With proper care, ceiling panels may be reused at the end of a building's life.







5/8" Radar™ Basic Acoustical Panels - Greenville, MS Acoustical Ceiling Panels

According to ISO 14025, ISO 21930:2007

1.16. Disposal

USG is helping to meet the needs of a growing world and preserve natural resources by taking back approved ceiling panels from any manufacturer and recycling them into new building products. Recycling reduces waste and relieves pressure on overburdened landfills. Incorporating renovation waste into new building products can also slow the rate at which raw materials are extracted from the land.

2. LCA Calculation Rules

2.1. Declared Unit

The declared unit for ceiling panels is defined as one square meter with optional reporting of one square foot (12"x12") of ceiling panel.

NAME	5/8" RADAR BASIC SQ AND ED (METRIC)	5/8" RADAR BASIC SQ AND ED (STANDARD)
Declared Unit	0.093 m ²	1 ft ²
Declared Thickness	1.47 cm	0.580 in
Density	221.07 kg/ m ³	13.8 pcf
Surface weight per declared unit	3.26 kg/m²	0.667 lb/ft ²

Table 3: Declared Unit

For purposes of defining a functional unit, an ESL of a building in North America of 75 years shall be used.

2.2. System Boundary

This EPD represents a "cradle-to-grave" LCA analysis for wet-felted ceiling panels. It covers all the production steps from raw material extraction (i.e., the cradle) to end of life disposal (grave).

2.3. Estimates and Assumptions

In the case of the wet-felted ceiling panel production at the Greenville, MS plant, data collection of energy and raw material inputs were aided by the presence of an extensive computer monitoring system which tracked product formulas by product type. All wet-felted ceiling product raw material and energy inputs are specific to the specific wet-felted product produced at the Greenville, MS plant.

Additional data limitations include the use of proxy processes rather than actual supplier generated primary data. This would include such processes as starch, which is representative of wet-milled corn starch but may not necessarily be representative of USG's particular starch supplier. In addition, the data is limited in that the primary data was collected for the time-period spanning July 2017 through June 2018 and changes in operations may increase/decrease impacts in the future. Other data limitations include the use of secondary data sets instead of primary data for upstream and









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downstream processes, local impacts vs. global impacts, possible impacts vs. actual impacts, inherent uncertainty in the data sets, accuracy and precision of impact assessment methodology, etc.

2.4. Cut-off Criteria

All inputs and outputs to a (unit) process were included in the calculation for which data is available.

In case of insufficient input data or data gaps for a unit process, the cut-off criteria was 1% of renewable and non-renewable primary energy usage and 1% of the total mass of that unit process. The total neglected input flows did not exceed 5% of energy usage and mass.

As such, some minor additives fell well below the cut-off criteria and were therefore not included in this study.

2.5. Background Data

All background was sourced from critically reviewed GaBi databases.

2.6. Data Quality

The LCA model was created using the GaBi ts software. Specific comments related to data quality requirements cited in ISO 14025 Section 4.2.3.6.2 include the following.

Temporal: In the case of wet-felted ceiling panel production, the LCI data was collected from the Greenville, MS plant for the time-period spanning July 2017 though June 2018.

Geographical: Where possible, all processes were chosen as being representative of US manufacturing processes.

Technical: The data selected for this study is specific to the technology used in the preparation of the various raw materials.

Precision: The raw material usage amounts were derived from plant quality data on finished products, coatings usage plant data and product formulas.

Completeness: Virtually all the significant raw material flows (> 99%) in wet-felted ceiling panel production has been modeled. The exception consists of transportation of the coating raw materials; the effect of which was determined to be less than 1% of the total.

Representative: Where possible all the data sets were selected to be representative of US-based production, are less than 10 years in age and are representative of the technology being employed.

Consistency: All the manufacturing processes were modeled in a consistent manner throughout this study in accordance with the goal and scope definitions.

Reproducibility: The information contained in this study, including raw material, energy and transportation distance inputs, have been fully documented in the LCA report.

Sources of Data: The sources for the processes used in this study have been fully provided in the LCA report and are representative of the material and energy sources used in actual production.

Uncertainty: The relative uncertainty associated with this study has been minimized. No significant assumptions have been made.

2.7. Period under Review

All raw material and energy inputs are for the time-period spanning July 2017 through June 2018.









5/8" Radar™ Basic Acoustical Panels - Greenville, MS Acoustical Ceiling Panels According to ISO 14025, ISO 21930:2007

2.8. Allocation

Energy inputs were allocated on a mass basis so that 100% of the purchased gas and electricity were allocated to specific types of products based on the mass of those products. Raw material inputs were allocated to specific products based on established product formulas.

2.9. Comparability

A comparison or evaluation of EPD data is only possible if all data sets to be compared are 1) created according to EN 15804 and 2) are considered in a whole building context or utilize identical defined use stage scenarios. Comparisons are only allowable when EPDs report cradle-to-grave information using a functional unit. Refer to section 5.3 of EN 15804 for further information. Comparison of the environmental performance of ceiling panels using EPD information shall be based on the product's use and impacts at the building level, and therefore EPDs may not be used for comparability purposes when not considering the building energy use phase as instructed under this PCR. Full conformance with the PCR for North American Ceiling Panels allows EPD comparability only when all stages of a ceiling panel life cycle have been considered. However, variations and deviations are possible.

3. LCA: Scenarios and additional technical information

Table 4. Transport to the building site (A4)

NAME	5/8" RADAR BASIC SQ AND ED	Unit
Fuel type	Diesel	-
Liters of fuel	0.667	l/100km
Vehicle type	US Truck	-
Transport distance	1,056	km
Capacity	0.67	
Gross density of products transported	197	kg/m³







5/8" Radar™ Basic Acoustical Panels - Greenville, MS Acoustical Ceiling Panels According to ISO 14025, ISO 21930:2007

Table 5. Installation into the building (A5)

NAME	VALUE	Unit
Ancillary materials	0	kg
Net freshwater consumption specified by water source and fate	0	m³
Other resources	0	kg
Electricity consumption	0	kWh
Other energy carriers	0	MJ
Material loss	7% of delivered weight	%
Ceiling Panel Mounting System (CPMS)	~ 180	kg/MSF
Output substances following waste treatment on site	7% of delivered weight	%
Dust in the air	~ 0	kg
VOC content	< 9	μg/m³

Table 6. Use or application of the installed product (B1)

NAME	VALUE	UNIT
RSL	75	years
VOC	< 9	μg/m³

Table 7. Maintenance (B2)

NAME	VALUE	Unit			
Maintenance process information	As required by the PCR, a standard Life expectancy for ceiling panels based on historic practices of 75 years shall be used. No maintenance is required.				
Maintenance cycle	0	Number/ RSL			







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Maintenance cycle	0	Number/ ESL
Water consumption	0	m ³
Auxiliary	0	kg
Other resources	0	kg
Electricity consumption	0	kWh
Other energy carriers	0	MJ
Material loss	0	kg

Table 8. End of life (C1-C4)

NAME		5/8" RADAR BASIC SQ AND ED	Unit
Collection process	Collected separately	0	kg
(specified by type)	Collected with mixed construction waste	303	kg/MSF
	Reuse	0	kg
	Recycling	0	kg
Pagovary	Landfill	303	kg/MSF
Recovery (specified by type)	Incineration	0	kg
	Incineration with energy recovery	0	kg
	Energy conversion efficiency rate	0	-
Disposal	Product or material for final deposition	303	kg/MSF
-	enic carbon (excluding kaging)	0	kg CO ₂







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4. Life Cycle Assessment Results

Table 9: Description of the system boundary modules

PRODUCT STAGE		CONST ION PF STA		USE STAGE						EI	ND OF L	IFE STAG	E	BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY		
A1	A2	А3	A4	A5	B1	В2	В3	В4	В5	В6	В7	C1	C2	С3	C4	D
Raw material supply	Transport	Manufacturing	Transport from gate to site	Assembly/Install	əsn	Maintenance	Repair	Replacement	Refurbishment	Building Operational Energy Use During Product Use	Building Operational Water Use During Product Use	Deconstruction	Transport	Waste processing	Disposal	Reuse, Recovery, Recycling Potential
Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	MND

Table 10: Acronym Key

ABBREVIATION	PARAMETER	Unit						
Life Cycle Impact Assessment Indicators								
GWP	Global Warming Potential	kg CO ₂ eq.						
ODP	Ozone Depletion Potential	kg CFC-11 eq.						
AP	Acidification Potential	kg SO₂ eq.						
EP	Eutrophication Potential	kg N eq.						
POCP	Photochemical ozone creation potential	kg O₃ eq.						
ADP	Abiotic resource depletion potential – fossil fuels	MJ, LHV						
Resource Use Parameters								

PERE	Use of renewable primary energy excluding renewable primary energy resources used as raw materials	MJ, net calorific value (LHV)
PERM	Use of renewable primary energy resources used as raw materials	MJ, net calorific value
PERT	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ, net calorific value
PENRE	Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ, net calorific value
PENRM	Use of non-renewable primary energy resources used as raw materials	MJ, net calorific value
PENRT	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ, net calorific value









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SM	Use of secondary materials	kg		
RSF	Use of renewable secondary fuels	MJ, net calorific value		
NRSF	Use of non-renewable secondary fuels	MJ, net calorific value		
FW	Net use of fresh water	m3		
	Waste Parameters			
HWD	Disposed-of-hazardous waste	kg		
NHWD	Disposed-of non-hazardous waste	kg		
RWD	Radioactive Waste Disposed	kg		
Output Flow Parameters				
CRU	Components for reuse	kg		
MFR	Materials for recycling	kg		
MER	Materials for energy recovery	kg		
EE	Exported energy	MJ		

4.1. Life Cycle Impact Assessment Results

Table 11: North American Impact Assessment Results for 5/8" Radar™ Basic SQ

TRACI v2.1	UNITS	A1-A3	A4-A5	B1-B7	C1-C4
GWP 100	kg CO ₂ eq.	4.66E+02	4.61E+01	0.00E+00	8.42E+00
ODP	kg CFC-11 eq.	4.34E-07	6.37E-08	0.00E+00	1.17E-12
AP	kg SO ₂ eq.	7.98E-01	2.04E-01	0.00E+00	4.64E-02
EP	kg N eq.	1.64E-01	1.76E-02	0.00E+00	3.89E-03
POCP	kg O₃ eq.	1.65E+01	6.54E+00	0.00E+00	1.13E+00
ADP	MJ, LHV	1.07E+03	8.44E+01	0.00E+00	1.46E+01

Table 12:North American Impact Assessment Results for 5/8" Radar™ Basic ED

TRACI v2.1	UNITS	A1-A3	A4-A5	B1-B7	C1-C4
GWP 100	kg CO ₂ eq.	5.09E+02	4.61E+01	0.00E+00	8.42E+00
ODP	kg CFC-11 eq.	4.34E-07	6.37E-08	0.00E+00	1.17E-12
AP	kg SO ₂ eq.	8.59E-01	2.04E-01	0.00E+00	4.64E-02
EP	kg N eq.	1.68E-01	1.76E-02	0.00E+00	3.89E-03
POCP	kg O₃ eq.	1.75E+01	6.54E+00	0.00E+00	1.13E+00
ADP	MJ, LHV	1.15E+03	8.44E+01	0.00E+00	1.46E+01









5/8" Radar™ Basic Acoustical Panels - Greenville, MS Acoustical Ceiling Panels According to ISO 14025, ISO 21930:2007

4.2. Life Cycle Inventory Results

Table 13: Resource Use for 5/8" Radar™ Basic SQ

PARAMETER	Units	A1-C4
PERE	MJ, LHV	6.93E+02
PERM	MJ, LHV	0.00E+00
PERT	MJ, LHV	6.93E+02
PENRE	MJ, LHV	9.39E+03
PENRM	MJ, LHV	0.00E+00
PENRT	MJ, LHV	9.39E+03
SM	MJ, LHV	3.85E+01
RSF	MJ, LHV	0.00E+00
NRSF	MJ, LHV	0.00E+00
FW	m ³	4.24E+00

Table 14:Resource Use for 5/8" Radar™ Basic ED

PARAMETER	UNITS	A1-C4
PERE	MJ, LHV	7.17E+02
PERM	MJ, LHV	0.00E+00
PERT	MJ, LHV	7.17E+02
PENRE	MJ, LHV	1.01E+04
PENRM	MJ, LHV	0.00E+00
PENRT	MJ, LHV	1.01E+04
SM	MJ, LHV	3.85E+01
RSF	MJ, LHV	0.00E+00
NRSF	MJ, LHV	0.00E+00
FW	m ³	4.32E+00







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Table 15: Output Flows and Waste Categories for 5/8" Radar™ Basic SQ

PARAMETER	Units	A1-C4
HWD	kg	0.00E+00
NHWD	kg	6.49E+02
RWD	kg	1.73E-01
CRU	kg	0.00E+00
MFR	kg	6.49E+02
MER	kg	0.00E+00
EE	MJ, LHV	0.00E+00

Table 16: Output Flows and Waste Categories for 5/8" Radar™ Basic ED

PARAMETER	Units	A1-C4
HWD	kg	0.00E+00
NHWD	kg	6.77E+02
RWD	kg	2.05E-01
CRU	kg	0.00E+00
MFR	kg	6.77E+02
MER	kg	0.00E+00
EE	MJ, LHV	0.00E+00

5. LCA Interpretation

The LCA results for the production of wet-felted ceiling panels were dominated by energy usage; primarily gas usage during the drying process. Drying energy was the key input influencing the LCIA measures. For example, drying energy (gas and electricity usage) for the Radar™ Basic product was responsible for 56.5% of the global warming impact and 51.0% of the total primary energy, respectively.

6. Further Information

5.1 Biopersistence of Mineral Wool Fibers

Slag wool fiber, based on its solubility and particle size, has been classified in 2001 as "not classifiable as to its carcinogenicity to humans" (Group 3) by the International Agency for Research on Cancer (IARC). The mineral slag wool fiber is exonerated from classification as a carcinogen in accordance with Note Q in the EU Commission Directive 97/69/EC. Primary routes of exposure are inhalation, eyes, and skin. Follow installation instructions and MSDS to reduce any effects.







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According to ISO 14025, ISO 21930:2007

5.2 VOC Emissions

USG certifies that all the wet-felted products covered by this EPD are Low-Emitting, defined as below the emissions of the concentrations for each individual volatile organic compound as specified in the Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers Version 1.1 [CDPH/EHLB/Standard Method V1.1 (February 2010); aka, chamber testing portion of CA Section 01350] and ASTM Guide D5116-06.

7. References

LCA Report

LCA Report for USG Greenville Wet-felted Acoustical Ceiling Products. October 9 2018. USG.

UL ENVIRONMENT

UL Environment General Program Instructions April 2015, version 2

PCR Part A: UL Environment and Institute of Construction and Environment e.V., Königswinter (pub.): Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report. July 2014, version 1.3

UL Environment: PCR Guidance for Building-Related Products and Services; Part B: Non-Metal Ceiling Panel EPD Requirements; October 2015 version 1

SUSTAINABILITY REPORTING STANDARDS

EN 15804: 2012-04 - Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction product.

ISO 14025: 2006 - Environmental labels and declarations — Type III environmental declarations — Principles and procedures

ISO 14040: 2006 - Environmental management - Life cycle assessment - Principles and framework

ISO 14044:2006 - Environmental management – Life cycle assessment – Requirements and guidelines

ISO 14046:2013 - Environmental management- Water footprint- Principles, requirements and guidelines

ISO 15392:2008 - Sustainability in building construction- General principles

ISO 15686-1:2011 - Buildings and constructed assets- Service life planning- Part 1: General principles

ISO 15686-2:2008 - Buildings and constructed assets- Service life planning Part 2: Service life prediction procedures

ISO 15686-7:2008 - Buildings and constructed assets- Service life planning Part 7: Performance evaluation for feedback of service life data from practice

ISO 15686-8:2008 - Buildings and constructed assets- Service life planning Part 8: Reference service life and service life estimation

ISO 21930: 2007 - Sustainability in building construction -- Environmental declaration of building products

