

Environmental Product Declaration

7/8 in. Mars™ High-NRC (85/35) and

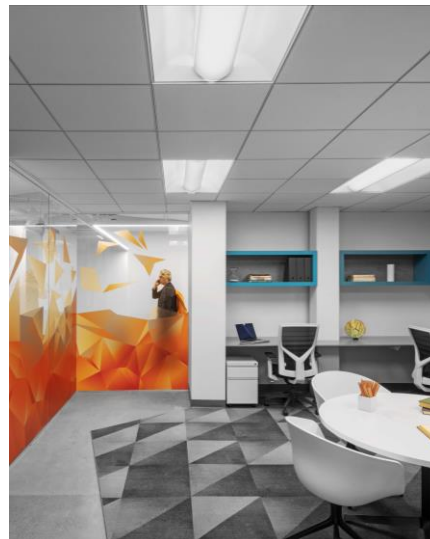
Mars™ Healthcare High-NRC (85/35) Acoustical Panels

Cloquet, MN



Features and Benefits

- Balanced Acoustics.
- High light-reflective finish (LR-0.90 white products).
- Washable and scrubbable finish.
- Impact and scratch resistant.
- Coordinates visually with USG Halcyon™ Acoustical Panels for open- or closed-plan applications.
- Nondirectional, monolithic visual reduces installation time and waste.
- ClimaPlus™ 30-year limited system warranty against visible sag, mold, and mildew.
- GREENGUARD Gold certified for low emitting performance.
- USG Mars™ High-NRC Acoustical Panels are part of the Ecoblueprint™ portfolio — meeting today's sustainability standards. For sustainability documentation go to USG.com or CGCInc.com.



TRACI v2.1 Environmental Impacts for 7/8" Mars™ High-NRC and Mars™ Healthcare High-NRC Ceiling Panels (85/35/90)

Functional Unit – 1 sf (0.093 m ²)	Cradle-to-Gate (A1-A3)	Cradle-to-Grave (A1-C4)
Global Warming Potential (kg CO ₂ eq.)	4.42E-01	5.22E-01
Ozone Depletion Potential (kg CFC-11 eq.)	3.89E-09	4.18E-09
Acidification Potential (kg SO ₂ eq.)	1.21E-03	1.41E-03
Eutrophication Potential (kg N eq.)	2.28E-04	2.56E-04
Photochemical Ozone Creation Potential (kg O ₃ eq.)	1.76E-02	2.12E-02
Abiotic Resource Depletion Potential Fossil Fuels (MJ, LHV)	1.15E+00	1.32E+00

For over a century, sustainable practices have naturally been an inherent part of our business at USG and CGC. 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 and CGC are 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 Environmental Product Declarations (EPDs) are the next step toward an even more transparent USG and CGC. For additional information, visit usg.com, cgcinc.com and usg.ecomedes.com.



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This declaration is an Environmental Product Declaration (EPD) in accordance with ISO 14025 and ISO 21930:2017. 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.

DECLARATION NUMBER	EPD 304	
PROGRAM OPERATOR	ASTM International – 100 Barr Harbor Drive, West Conshohocken, PA USA www.astm.org	
DECLARATION HOLDER	USG Corporation - 550 W. Adams St., Chicago, IL USA	
DECLARED PRODUCT	7/8 in. Mars™ High-NRC (85/35) Acoustical Ceiling Panels and 7/8 in. Mars™ Healthcare High-NRC (85/35) Acoustical Ceiling Panels	
REFERENCE PCR	UL Environment: PCR Guidance for Building-Related Products and Services; Part B: Non-Metal Ceiling Panel EPD Requirements; April 13, 2021, v2.0	
DATE OF ISSUE	5/16/22	
PERIOD OF VALIDITY	5 Years	
CONTENTS OF THE DECLARATION	This EPD is complete and contains the following: • Product System Documentation • Life Cycle Calculation Rules • Life Cycle Assessment Results • Further Information • References	
This declaration was independently verified in accordance with ISO 14025 and ISO 21930:2017 ☐ INTERNAL ☒ EXTERNAL		Tim Brooke, ASTM International
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:		Thomas P. Gloria, Industrial Ecology Consultants



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1. Product System Documentation

1.1 Product Description and Product Identification

Mars™ High-NRC and Mars™ Healthcare High-NRC Acoustical Ceiling Panels are manufactured using a unique process that maximizes sound and anti-sag performance, producing excellent noise reduction coefficient and solid ceiling attenuation class (CAC) performance.

The wet-formed mineral fiber family of products consists of a latex/starch-bound mineral wool basemat optionally laminated with a non-woven veil. These products generally fall under ASTM E1264 Section 5.2 designation as Type III—Mineral base with membrane-faced overlay or 5.2.11 Type XI—Mineral base with fabric-faced overlay. This EPD covers the following 7/8" Mars™ High-NRC and 7/8" Mars™ Healthcare High-NRC acoustical products: Item nos.: 88134, 89134, 80113, 89140, 88135, 89135, 80139, 89141, 88136, 89136, 80165, 89142, 86256, 88256, 86257, 86258, 89662, 89663, 89664, 89665, 89667, 89668, 80186, 80100, 80101, 80102, 80103, 80104, 80105, 80106, 80107, 80108, 89663, 80109, 80110, 80111, 80112, 80114, 80115, 80116, 80117, 80118, 80119, 80120, 80121, 80122, 86665, 80123, 80124, 80125, 80185, 80126, 80127, 80128, 80129, 80130, 80131, 80132, 80133, 80134, 89665, 80135, 80136, 80137, 80138, 80140, 80141, 80142, 80143, 80144, 80145, 80146, 80147, 80148, 86664, 80149, 80150, 80151, 86499, 80152, 80153, 80154, 80155, 80156, 80157, 80158, 80159, 80160, 89668, 80161, 80162, 80163, 80164, 80166, 80167, 80168, 80169, 80170, 80171, 80172, 80173, 80174, 86663, 80175, 80176, and 80177. Other sizes available.

1.2 Designated 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. They are suitable for offices, healthcare, classrooms and corridors, reception areas and lobbies, department stores, retail and restaurants and hospitality,

1.3 Product Technical Data

Table 1: Summary of the technical data

NAME	TEST METHOD	7/8" MARS™ HIGH-NRC (85/35/90)	7/8" MARS™ HIGH-NRC HEALTHCARE (85/35/90)
Noise Reduction Coefficient (NRC)	C423	0.85	0.85
Articulation Class (AC)	E1111 and Classification E1110	N/A	N/A
Ceiling Attenuation Class (CAC)	E1414 and Classification E413	35	35
Fire Rating	E84	Class A	Class A
Light Reflection	E1477	0.90	0.90



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1.4 Placing on the Market/Application Rules

Acoustical ceiling panels 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.”

1.5 Delivery Status

Mars™ High-NRC and Mars™ Healthcare High-NRC panels arrive at the jobsite in a shrink-wrapped wrap-around carton.

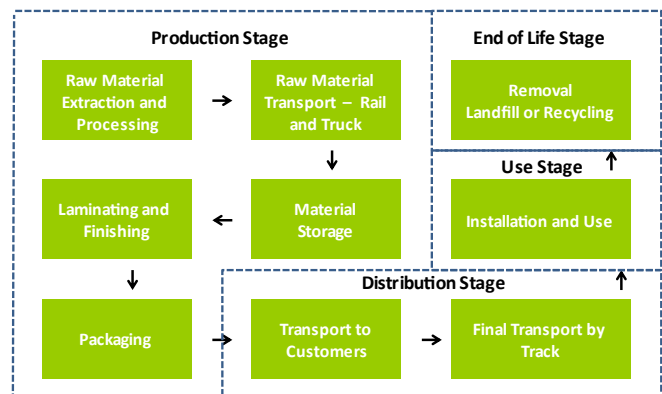
1.6 Product Composition

Table 2: Product specifications and formula

MATERIAL	7/8" MARST [™] HIGH-NRC (85/35/90)	7/8" MARS [™] HIGH- NRC HEALTHCARE (85/35/90)
Basemat	87.9%	87.9%
Adhesive	0.8%	0.8%
Mars Veil	2.4%	2.4%
Dry coating	8.9%	8.9%
Sum	100%	100%

1.7 Product Manufacture

In wet-formed mineral fiber production, the tile ingredients are mixed into a dilute slurry, which is then formed onto a wire as a basemat. The base mats are then pressed and dried. The dried tiles are optionally laminated, 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 tiles 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 finishing unit processes are dominated by the use of water-based 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.



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1.8 Environment and Health During Manufacturing

USG and CGC have led the building sector's effort in developing and supplying sustainable construction materials. Today, sustainability is integrated into the design and manufacture of every wall, ceiling, and flooring product. As both a producer and a buyer of raw materials, we have a responsibility to extensively review and select each material we use. Each decision we make is based on careful consideration of environmental and safety effects over time. Raw materials used in our products are carefully selected and go through a screening procedure. Incoming raw materials are tested for contaminants by an internal lab and third-party labs for consideration of use and worker, environmental, and end-user exposure. This due diligence helps to ensure our products are safe to handle in our manufacturing plants and on job sites while having minimal impact on occupant health and indoor and outdoor environments.

1.9 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.

1.10 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.

1.11 Distribution

The default transport distances from the PCR (product transport from the point of manufacture to building site) of 497 miles (800 km) by truck were used in this analysis. Final transportation from the building site to waste processing was defaulted to 22 miles (35 km) by truck.

1.12 Product 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.

1.13 Environment and Health During Use Stage

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.

1.14 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.



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1.15 Re-Use Phase

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

1.16 End-of-Life 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. While USG encourages recycling of its ceiling panels through its take back program, all ceiling panel waste generated during installation and at end-of-life is assumed to be disposed of in an appropriate landfill.

1.17 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 C84).

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."



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2. LCA Calculation Rules

2.1 Functional 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.

Table 3: Functional unit

NAME	7/8" MARS™ HIGH-NRC (METRIC)	7/8" MARS™ HIGH-NRC (STANDARD)	7/8" MARS™ HEALTHCARE HIGH-NRC (METRIC)	7/8" MARS™ HEALTHCARE HIGH-NRC (STANDARD)
Declared Unit	0.093 m ²	1 ft ²	0.093 m ²	1 ft ²
Declared Thickness	2.27 cm	0.893 in	2.27 cm	0.893 in
Density	234 kg/m ³	14.6 pcf	234 kg/m ³	14.6 pcf
Surface weight per declared unit	5.30 kg/m ²	1.09 lb./ft ²	5.30 kg/m ²	1.09 lb./ft ²

2.2 System Boundary

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

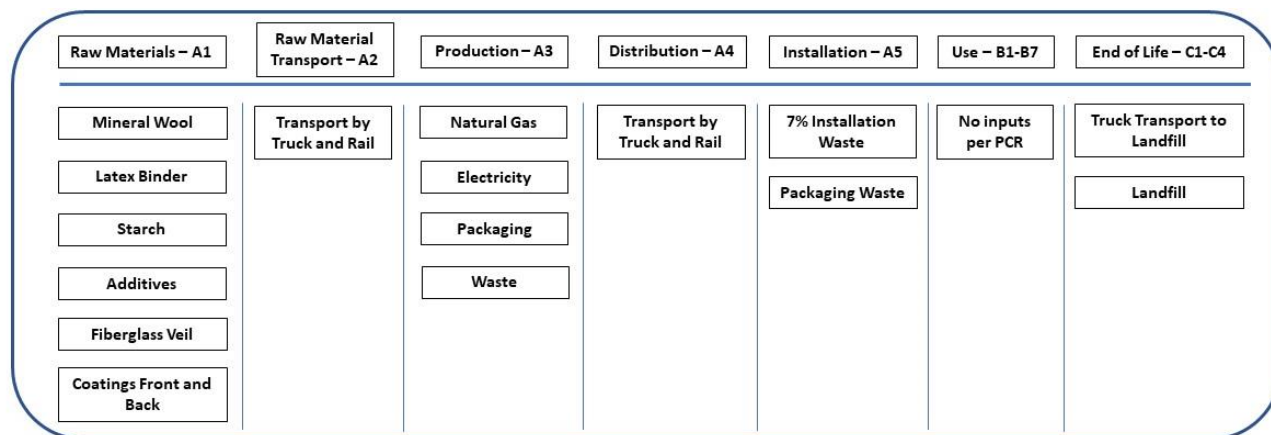


Figure 1: Specific processes covered by this EPD by life cycle stage



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2.3 Estimates and Assumptions

In the case of the wet-formed mineral fiber ceiling panel production at the Cloquet, MN 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-formed mineral fiber ceiling product raw material and energy inputs are specific to the specific wet-formed mineral fiber product produced at the Cloquet, MN 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 during the 2020 year 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 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

The 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.

2.5 Background Data

All background was sourced from critically reviewed GaBi databases.

2.6 Data Requirements and Data Sources

The LCA model was created using the GaBi software from Sphera. 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-formed mineral fiber ceiling tile production, the LCI data was collected from the Cloquet, MN plant for the 2020 production year.

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-formed mineral fiber 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.



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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 2020 calendar year.

2.8 Allocation

The LCI data was collected for the Cloquet ceiling tile production plant for the 2020 production year. Raw material inputs are specific to these panels and energy inputs were allocated based on the mass of these panels.

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.



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3. LCA: Scenarios and additional technical information

Table 1. Transport to the building site (A4) (both products)

NAME	VALUE	UNIT
Fuel type	Diesel	-
Liters of fuel	1.46E-03	l/100km
Vehicle type	US Truck	-
Transport distance	800	km
Capacity	0.67	
Gross density of products transported	234	kg/m ³

Table 2. Installation into the building (A5) (both products)

NAME	VALUE	UNIT
Ancillary materials	0	kg
Net freshwater consumption specified by water source and fate	0	m ³
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/m ³

Table 3. Use or application of the installed product (B1)

NAME	VALUE	UNIT
RSL	75	years
VOC	< 9	µg/m ³



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Table 4. 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
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 5. End of Life (C1-C4)

NAME		7/8" MARST [™] HIGH-NRC	7/8" MARST [™] HEALTHCARE HIGH-NRC	UNIT
Collection process (specified by type)	Collected separately	0	0	kg
	Collected with mixed construction waste	493	493	kg/MSF
Recovery (specified by type)	Reuse	0	0	kg
	Recycling	0	0	kg
	Landfill	493	493	kg/MSF
	Incineration	0	0	kg
	Incineration with energy recovery	0	0	kg
	Energy conversion efficiency rate	0	0	-
Disposal	Product or material for final deposition	493	493	kg/MSF
Removals of biogenic carbon (excluding packaging)		0	0	kg CO ₂



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4. Life Cycle Assessment Results

Product stage				Construction process stage				Use stage				End of life stage			
Raw Material Supply	Transport	Manufacturing	Transport	Construction-Installation Process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational Energy Use	Operational water Use	De-construction Demolition	Transport	Waste processing	Disposal
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Figure 2: System Boundary

The Life Cycle Impact Assessment Results presented below are the higher LCA results for the Mars™ High-NRC and Mars™ Healthcare High-NRC Acoustical Ceiling Panels.

4.1 Life Cycle Impact Assessment Results

Table 9: LCA Results using TRACI 2.1 Impacts

Life Cycle Environmental Impact Results for 1 Square Foot of 7/8" Mars High-NRC and Mars™ Healthcare High-NRC Ceiling Panels (85/35/90)							
North American LCA Environmental Impact Results		Stage					
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1-C4	Total A1-C4
Environmental Impact Category	Units	Impact	Impact	Impact	Impact	Impact	Impact
Global warming	kg CO2 eq.	4.42E-01	3.43E-02	3.70E-02	0.00E+00	8.45E-03	5.22E-01
Ozone Depletion Potential (ODP)	kg CFC 11-eq.	3.89E-09	6.86E-18	2.93E-10	0.00E+00	3.93E-17	4.18E-09
Acidification Potential	kg SO2 eq.	1.21E-03	5.01E-05	1.01E-04	0.00E+00	4.96E-05	1.41E-03
Eutrophication Potential (EP)	kg N eq.	2.28E-04	8.22E-06	1.81E-05	0.00E+00	2.42E-06	2.56E-04
Photochemical Ozone Creation Potential (POCP)	kg O3-Equiv.	1.76E-02	1.12E-03	1.52E-03	0.00E+00	9.63E-04	2.12E-02
Abiotic Depletion Potential (ADP) fossil fuels	MJ surplus energy	1.15E+00	6.44E-02	9.33E-02	0.00E+00	1.50E-02	1.32E+00



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Table 10: LCA Results for Resources Usages

Resource and Waste Flows for 1 Square Foot of 7/8" Mars™ High-NRC and Mars™ Healthcare Ceiling Panels (85/35/90)							
	Units	Stage					
Use of Primary Resources		A1-C4	A4	A5	B1-B7	C1-C4	Total A1-C4
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	8.30E-01	2.00E-02	6.55E-02	0.00E+00	1.42E-02	9.30E-01
Renewable primary resources with energy content used as material (RPRM)	MJ, NCV	2.16E-02	0.00E+00	1.62E-03	0.00E+00	0.00E+00	2.32E-02
Non-renewable primary resources used as an energy carrier (NRPRE)	MJ, NCV	1.04E+01	4.86E-01	8.36E-01	0.00E+00	1.18E-01	1.18E+01
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	4.88E-01	0.00E+00	3.67E-02	0.00E+00	0.00E+00	5.24E-01
Secondary material, secondary fuel and recovered energy		A1-A3	A4	A5	B1-B7	C1-C4	Total A1-C4
Secondary Material (SM)	kg	3.47E-01	0.00E+00	2.61E-02	0.00E+00	0.00E+00	3.73E-01
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-renewable Secondary Fuel (NRSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Renewable Energy (RE)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Consumption of Fresh Water	m3	5.28E-03	8.56E-05	4.08E-04	0.00E+00	2.78E-05	5.81E-03
Additional inventory parameters for transparency		A1-A3	A4	A5	B1-B7	C1-C4	Total A1-C4
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-6.29E-02	0.00E+00	-4.73E-03	0.00E+00	6.76E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Removals and emissions associated with biogenic carbon content of the bio-based packaging	kg CO2-eq.	-1.74E-02	0.00E+00	-1.31E-03	0.00E+00	1.87E-02	0.00E+00
Emissions from land use change	kg CO2-eq.	1.28E-04	3.31E-05	1.45E-05	0.00E+00	2.33E-05	1.99E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste		A1-A3	A4	A5	B1-B7	C1-C4	Total A1-C4
Hazardous waste disposed	kg	7.98E-07	4.06E-11	6.01E-08	0.00E+00	1.21E-11	8.58E-07
Non-hazardous waste disposed	kg	1.05E-01	4.47E-05	5.09E-02	0.00E+00	4.93E-01	6.49E-01
High-level radioactive waste	kg	4.10E-05	1.38E-06	3.30E-06	0.00E+00	1.08E-06	4.68E-05
Intermediate and low-level waste	kg	na	na	na	na	na	na
Assignments of output flows at the end-of-life		A1-C4	A4	A5	B1-B7	C1-C4	Total A1-C4
Components for re-use (CRU)	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling (MR)	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery (MER)	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recovered energy exported (EE)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00



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Environmental Product Declaration

7/8 in. Mars™ High-NRC (85/35) and

Mars™ Healthcare High-NRC (85/35) Acoustical Panels

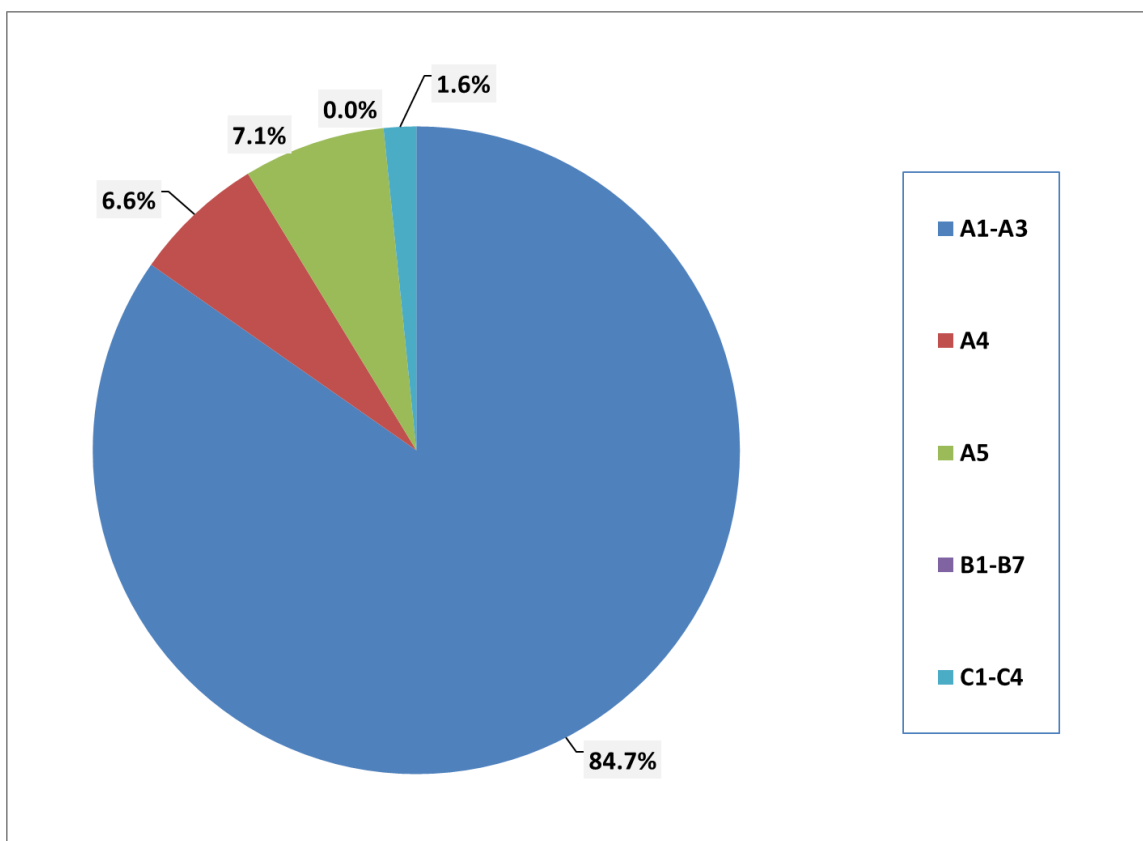
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5. LCA Interpretation

The LCA results for the production of wet-formed mineral fiber ceiling panels were dominated by energy usage; primarily gas usage during the drying process. Drying energy was the key input influencing the LCA measures.

Figure 3: Process Dominance Analysis for GWP for the Production of 1 Square Foot of 7/8 in. Mars™ High-NRC (85/35/90) Acoustical Ceiling Panels



Environmental Product Declaration

7/8 in. Mars™ High-NRC (85/35) and

Mars™ Healthcare High-NRC (85/35) Acoustical Panels

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