Features and Benefits

- Installs faster than traditional framing methods.
- 12-gauge wire is easier to work with than 9-gauge wire required with traditional framing systems.
- Evaluated for building code compliance according to ICC ESR-4358.
- G40 available for most environments, G90 for more severe conditions.
- Wind load tested and approved, including Miami-Dade NOA, for exterior applications with proper bracing and framing.



TRACI v2.1 (Environmental Impacts)	
Functional Unit – 1 square foot (0.0929 square meters)	USG Drywall Suspension System – Stucco/Plaster/EIFS Cradle-to-Grave (A1-C4)
Global Warming Potential (kg CO ₂ eq.)	6.30E-01
Ozone Depletion Potential (kg CFC-11 eq.)	4.96E-10
Acidification Potential (kg SO ₂ eq.)	1.65E-03
Eutrophication Potential (kg N eq.)	7.79E-05
Photochemical Ozone Creation Potential (kg O ₃ eq.)	2.10E-02
Abiotic Resource Depletion Potential Fossil Fuels (MJ, LHV)	3.50E-01

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.







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.

USG Corporation has sole ownership, liability, and responsibility for this EPD.

Environmental declarations from different programs (ISO 14025) may not be comparable. Comparison of the environmental performance of products using EPD information shall be based on the product's use and impacts at the building or construction works level, and therefore EPDs may not be used for comparability purposes when not considering the whole building life cycle. EPD comparability is only possible 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 in results upstream or downstream of the life cycle stages declared.

DECLARATION NUMBER	EPD 650						
EPD TYPE	Product Specific Plant Averaged	EPD					
PROGRAM OPERATOR		ASTM International – 100 Barr Harbor Drive, West Conshohocken, PA USA www.astm.org					
DECLARATION HOLDER	USG Corporation - 550 W. Adan	ns St., Chicago, IL USA					
EPD Type	Type III Declaration per ISO 140	25:2006					
DECLARED PRODUCT	USG Drywall Suspension System – Stucco/Plaster/EIFS						
DATE OF ISSUE PERIOD OF VALIDITY	4/1/24 5 Years						
CORE STANDARD	ISO 21930						
CORE PCR	Related Product and Services in	ory Rules for Construction Products for Building- North America; Part A: Life Cycle Assessment equirements. v3.2, December 2018					
SUB-CATEGORY PCR	UL Environment: PCR Guidance	for Building-Related Products and Services; Requirements; January 15, 2020					
ACLCA PCR OPEN STANDARD CONFORMANCE	Transparency						
ACLCA PCR OPEN STANDARD VERSION	Version 1.0 May 25, 2022						
This declaration was independently version 14025 and ISO 21930:2017 □ INTERNAL	erified in accordance with ISO ⊠ EXTERNAL	Tim Brooke, ASTM International					
This life cycle assessment was indep with ISO 14044 and the reference PC		Thomas P. Gloria, Industrial Ecology Consultants					





1 CGC

1. Product System Documentation

1.1 Product Description

The USG[™] Drywall Suspension System for Stucco/Plaster/EIFS System is roll formed with a hot dipped galvanized body. The system is generally used as a support for the installation of drywall, stucco and EIFS systems. It is manufactured by USG in Stockton, CA, and Westlake, OH. It is tested in accordance with ASTM C635 Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings. This EPD covers the USG[™] Drywall Suspension System for Stucco/Plaster/EIFS System profile.

The USG[™] Drywall Suspension System for Stucco/Plaster/EIFS System is covered by the following Construction Specification Institute (CSI) MasterFormat[®] codes.

09 22 26.23 Metal Suspension System

Corresponding applicable UNSPSC codes include:

25172000 Suspension System Components

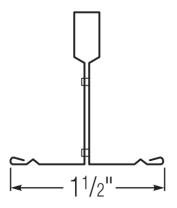
1.2 Designated Application

The USG[™] Drywall Suspension System for Stucco/Plaster/EIFS System consists of main tees, cross tees and ancillary products (see USG product literature for typical installation instructions) that are assembled to provide a structure for the support of metal or non-metal ceiling panels.

1.3 Product Technical Data

Performance Attributes

- Class A
- Fire-rated
- G40 and G90 galvanixed systems available







The USG[™] Drywall Suspension System for Stucco/Plaster/EIFS System must be installed in accordance with all applicable USG installation guidelines and in accordance with ASTM C636 Standard Practice of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels. An approved installation guide entitled, <u>Acoustical Suspension System – Installation Guide: Suspended Ceiling</u>, is available on usg.com and cgcinc.com.

1.5 Delivery Status

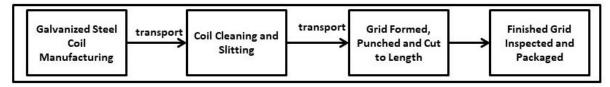
The USG[™] Drywall Suspension System for Stucco/Plaster/EIFS Systems arrive at the jobsite in cardboard boxes, which have been modeled in this study.

1.6 Product Composition

Material	USG™ Drywall Suspension System for Stucco/Plaster/EIFS System
Galvanized Steel Coil	100.0%
Total	100.0%

Table 1.2: Product composition

1.7 Product Manufacture



During the manufacturing process, a piece of galvanized steel coil is formed into the proper configuration using a series of driven dies. A clip is attached to both ends of the main tee and cross tee members allowing for connection of the various pieces. All process scrap is recycled.

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 review and select each material we use. Each decision we make is based on careful consideration of environmental and safety effects. Raw materials used in our products are carefully selected and go through a screening procedure. 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.



USG Drywall Suspension System - Stucco/Plaster/EIFS System

Stockton, CA, Westlake, OH



1.9 Packaging

The USG[™] Drywall Suspension System for Stucco/Plaster/EIFS System is packaged in cardboard boxes. USG encourages the proper recycling of these cardboard boxes. Both the production and disposal of these packaging materials were modeled in this study

1.10 Conditions of Use

Details for conditions of use may be found in the product specifications.

1.11 Distribution

The default transport distances per PCR (product transport from the point of manufacture to building site) of 497 miles (800 km) by diesel powered truck/trailer were used in this analysis.

1.12 Product Installation

The USG[™] Drywall Suspension System for Stucco/Plaster/EIFS System must be installed according to ASTM C636, ASTM E580, ASTM C754 and USG requirements. Alternate installation methods may be used when approved by the authority having jurisdiction. Approved installation guides entitled, <u>USG Exterior Ceiling Systems Installation Guide</u> (SC3212) and <u>USG Exterior Ceiling Application System Guide (SC2561)</u>, are available on usg.com and cgcinc.com. Installation of this product is accomplished by manual labor using mostly hand tools. No material or energy inputs are required on the jobsite. Per the PCR, a 7% waste factor was used in this LCA study.

1.13 Environment and Health During Use Stage

This product is not expected to produce any unusual hazards during normal use.

1.14 Reference Service Life

The USG[™] Drywall Suspension System for Stucco/Plaster/EIFS System is a metal ceiling suspension system. Once installed, it should require no maintenance, refurbishment, or replacement. Accordingly, a default RSL of 75 years is assumed for this product. An assumed Estimated Service Life (ESL) of 75 years shall be used for building life.

1.15 Re-Use Phase

USG[™] Drywall Suspension System for Stucco/Plaster/EIFS System components generally cannot be reused at the end of a building's life.

1.16 End-of-Life Disposal

USG[™] Drywall Suspension System for Stucco/Plaster/EIFS System components are assumed to be recycled at end of life. Product disposal was modeled according to the guidelines provided in Part A, Table 2 (Product Disposal Assumptions by Region).



Environmental Product Declaration USG Drywall Suspension System - Stucco/Plaster/EIFS System

Stockton, CA, Westlake, OH

USG CGC

1.17 – Extraordinary Effects

Fire

All 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 or CAN ULc S102).

1.17.1 – Further Information

Further information can be found at usg.com and cgcinc.com.

2. LCA Calculation Rules

2.1 EPD Type

This EPD is a product specific, plant averaged EPD.

2.2 Functional Unit

The functional unit is defined as 0.092 square meters with optional reporting of one square foot (12"x12") of installed product.

	USG™ Drywall Suspension System for Stucco/Plaster/EIFS System
Functional Unit	1.84E+00 kg/sm

Table 2.1: Functional unit

2.2 System Boundary

This EPD represents a "cradle-to-grave" LCA analysis for USG™ Drywall Suspension System for Stucco/Plaster/EIFS System. It covers all the production steps from raw material extraction (i.e., the cradle) to end of life disposal (grave).

Raw Materials – A1	Raw Material Transport – A2	Production – A3	Distribution - A4	Installation – A5	Use - B1-B7	End of Life – C1-C4
Galvanized Steel Coil	Transport by Truck	Natural Gas Electricity Packaging	Transport by Truck	7% Installation Waste Packaging Waste	Not included in study	Truck Transport to Recycling Center Truck Transport to Landfill
		Waste				Recycling

Figure 2.1: Specific processes covered by this EPD by life cycle stage





2.3 Estimates and Assumptions

The results are limited by the use of proxy processes rather than actual supplier generated primary data. This would include such processes as the production of the aluminum coil, which is specific to North America and covers the coil thickness used in this product but is not specific to the manufacturer used by USG. In addition, the data is limited in that the primary data was collected during 2022 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. Both human activity and capital equipment were excluded from the system boundary.

2.4 Cut-off Criteria

The requirements for the exclusion of inputs and outputs (cut-off rules) follows the guidance in ISO 21930 Section 7.1.8.

2.5 Background Data

All background was sourced from critically reviewed LCA for Experts databases from Sphera.

2.6 Data Requirements and Data Sources

The LCA model was created using the LCA for Experts software from Sphera (Version 10.7.1.28; Schema 8007). 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 production, the LCI data was collected for the 2022 production year.

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

Technical: Where possible, 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 data.

Completeness: Virtually all the significant raw material flows (> 99.9%) have been modeled.

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 2022 calendar year.

2.8 Allocation

No allocation was required in this study. The LCI data was collected for the 2022 production year.

3. LCA: Scenarios and additional technical information

Name	USG™ Drywall Suspension System for Stucco/Plaster/EIFS System	Unit
Fuel type	Diesel	-
Liters of fuel (including	4.37E-03	l/100km/sm
Vehicle type	US Truck	-
Transport distance	800	km
Capacity	0.67	
Gross density of products transported (assembly only)	7,700	kg/m ³

Table 3.1. Transport to the building site (A4)

Table 3.2. Installation into the building (A5)

ΝΑΜΕ	VALUE	Unit
Ancillary materials	0	kg/sm
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	%
Mounting System (CPMS)	0	kg/sm
Output substances following waste treatment on site	0	%
Dust in the air	~ 0	kg
VOC content	< 9	µg/m³



Table 3.3. Use or application of the installed product (B1)

ΝΑΜΕ	VALUE	Unit
RSL	75	years
VOC	< 9	µg/m³

Table 3.4. 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	m³					
Auxiliary	0	kg					
Other resources	0	kg					
Electricity consumption	0	kWh					
Other energy carriers	0	MJ					
Material loss	0	kg					



USG Drywall Suspension System – Stucco/Plaster/EIFS System Stockton, CA, Westlake, OH



Name		USG™ Drywall Suspension System for Stucco/Plaster/EIFS Systems	Unit
Collection	Collected	0	kg
Collection process (specified by type)	Collected with mixed construction waste	0	kg/sm
	Reuse	0	kg
	Recycling	1.36E+00	kg/sm
Recovery	Landfill (steel)	Landfill (steel) 4.84E-01	
(specified by type)	Incineration	0	kg
	Incineration with	Incineration with 0	
	Energy	0	-
Disposal	Product or material for final deposition	1.84E+00	kg/sm
	biogenic carbon g packaging)	0	kg/sm

Table 3.5. End of Life (C1-C4)





4. Environmental Indicators Derived from LCA

4.1 Life Cycle Assessment Results

	Produ	uct stag	е	Constru	uction p	orocess	stage	Use stage			E	End of li	fe stage	•	
Raw Material Supply	Transport	Manufacturing	Transport	Construction-Installation P rocess	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	Х	Х	Х	Х	Х	Х	Х	Х	х	Х	Х	X	Х	Х	X

Figure 2: System Boundary

The following tables provide the LCA results for the USG [™] Donn[®] Brand DX[®] and DXL[™] Acoustical Suspension Systems. These results are for the USG grid plants in Stockton, CA, and Westlake, OH with the results weighted using the production volume for each product at each plant.

North American LCA Environmental Impacts - 1 Square Meter of Drywall Suspension - Stucco/Plaster/EIFS System										
Environmental Impact Category	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D
Global Warming Potential, excl. biogenic carbon (GWP)	kg CO2 eq.	6.12E+00	1.11E-01	5.28E-01	0.00E+00	2.29E-02	0.00E+00	7.17E-03	6.79E+00	-2.51E+00
Ozone Depletion Potential (ODP)	kg CFC 11-eq.	4.97E-09	2.89E-16	3.74E-10	0.00E+00	5.96E-17	0.00E+00	3.79E-17	5.34E-09	6.85E-14
Acidification Potential (AP)	kg SO2 eq.	1.60E-02	4.47E-04	1.29E-03	0.00E+00	5.62E-05	0.00E+00	4.48E-05	1.78E-02	-4.99E-03
Eutrophication Potential (EP)	kg N eq.	7.08E-04	4.13E-05	8.10E-05	0.00E+00	6.21E-06	0.00E+00	1.93E-06	8.38E-04	-2.98E-04
Photochemical Ozone Creation Potential (POCP)	kg O3-Equiv.	1.98E-01	1.03E-02	1.63E-02	0.00E+00	1.28E-03	0.00E+00	8.58E-04	2.26E-01	-5.38E-02
Abiotic Depletion Potential (ADP) fossil fuels	MJ surplus energy	3.23E+00	2.08E-01	2.72E-01	0.00E+00	4.29E-02	0.00E+00	1.22E-02	3.77E+00	-3.18E-03

North American LCA Environmental Im	pacts - 1 Square Foot	of Drywall Suspension	- Stucco/Plaster/EIFS System
	ipuolo i oquulo i ool	or bryman ouspension	

Environmental Impact Category	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D
Global Warming Potential, excl. biogenic carbon (GWP)	kg CO2 eq.	5.68E-01	1.03E-02	4.91E-02	0.00E+00	2.13E-03	0.00E+00	6.66E-04	6.30E-01	-2.33E-01
Ozone Depletion Potential (ODP)	kg CFC 11-eq.	4.62E-10	2.68E-17	3.47E-11	0.00E+00	5.53E-18	0.00E+00	3.52E-18	4.96E-10	6.36E-15
Acidification Potential (AP)	kg SO2 eq.	1.48E-03	4.15E-05	1.20E-04	0.00E+00	5.22E-06	0.00E+00	4.16E-06	1.65E-03	-4.64E-04
Eutrophication Potential (EP)	kg N eq.	6.58E-05	3.83E-06	7.52E-06	0.00E+00	5.77E-07	0.00E+00	1.80E-07	7.79E-05	-2.77E-05
Photochemical Ozone Creation Potential (POCP)	kg O3-Equiv.	1.84E-02	9.59E-04	1.52E-03	0.00E+00	1.19E-04	0.00E+00	7.97E-05	2.10E-02	-5.00E-03
Abiotic Depletion Potential (ADP) fossil fuels	MJ surplus energy	3.00E-01	1.94E-02	2.52E-02	0.00E+00	3.99E-03	0.00E+00	1.13E-03	3.50E-01	-2.96E-04



USG Drywall Suspension System – Stucco/Plaster/EIFS System Stockton, CA, Westlake, OH



North American LCA Environmental Impacts - 1 Metric Ton of Drywall Suspension - Stucco/Plaster/EIFS System

Environmental Impact Category	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D
Global Warming Potential, excl. biogenic carbon (GWP)	kg CO2 eq.	3.32E+03	6.05E+01	2.87E+02	0.00E+00	1.24E+01	0.00E+00	3.90E+00	3.69E+03	-1.36E+03
Ozone Depletion Potential (ODP)	kg CFC 11-eq.	2.70E-06	1.57E-13	2.03E-07	0.00E+00	3.24E-14	0.00E+00	2.06E-14	2.90E-06	3.72E-11
Acidification Potential (AP)	kg SO2 eq.	8.68E+00	2.43E-01	7.03E-01	0.00E+00	3.05E-02	0.00E+00	2.43E-02	9.68E+00	-2.71E+00
Eutrophication Potential (EP)	kg N eq.	3.85E-01	2.24E-02	4.40E-02	0.00E+00	3.38E-03	0.00E+00	1.05E-03	4.55E-01	-1.62E-01
Photochemical Ozone Creation Potential (POCP)	kg O3-Equiv.	1.07E+02	5.61E+00	8.88E+00	0.00E+00	6.96E-01	0.00E+00	4.66E-01	1.23E+02	-2.92E+01
Abiotic Depletion Potential (ADP) fossil fuels	MJ surplus energy	1.75E+03	1.13E+02	1.48E+02	0.00E+00	2.33E+01	0.00E+00	6.61E+00	2.05E+03	-1.73E+00

Resource Usages for 1 Square Meter of Drywall Suspension - Stucco/Plaster/EIFS System											
Use of Primary Resources	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D	
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	4.87E+00	6.27E-02	3.78E-01	0.00E+00	1.29E-02	0.00E+00	1.31E-02	5.34E+00	9.95E-01	
Renewable primary resources with energy content used as material (RPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Non-renewable primary resources used as an energy carrier (NRPRE)	MJ, NCV	7.08E+01	1.57E+00	5.55E+00	0.00E+00	3.25E-01	0.00E+00	9.71E-02	7.84E+01	-2.52E+01	
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Secondary material, secondary fuel and recovered energy Units A1-A3 A4 A5 C1 C2 C3 C4 Total A1-C4 D											
Secondary material (SM)	kg	6.24E-03	0.00E+00	4.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-03	0.00E+00	
Renewable secondary fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	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	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	0.00E+00	0.00E+00	0.00E+00	
Consumption of fresh water	m3	3.95E-01	2.15E-04	2.97E-02	0.00E+00	4.43E-05	0.00E+00	2.39E-05	4.25E-01	-2.56E-01	
Additional inventory parameters for transparency	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D	
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	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.	-6.65E-04	0.00E+00	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Emissions from land use change	kg CO2-eq.	1.16E-03	1.27E-04	1.04E-04	0.00E+00	2.62E-05	0.00E+00	2.15E-05	1.44E-03	-3.37E-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	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	0.00E+00	0.00E+00	0.00E+00	
Indicators describing waste	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D	
Hazardous waste disposed	kg	2.96E-05	4.53E-12	2.23E-06	0.00E+00	9.33E-13	0.00E+00	1.03E-11	3.18E-05	-1.89E-07	
Non-hazardous waste disposed	kg	1.19E-01	1.37E-04	6.83E-02	0.00E+00	2.82E-05	0.00E+00	4.84E-01	6.72E-01	3.05E-01	
High-level radioactive waste	kg	1.17E-04	4.51E-06	9.95E-06	0.00E+00	9.31E-07	0.00E+00	1.02E-06	1.33E-04	2.76E-06	
Intermediate and low-level waste	kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Assignments of output flows at the end-of-life	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D	
Components for re-use (CRU)	kg	0.00E+00	0.00E+00	0.00E+00	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	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	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	0.00E+00	0.00E+00	0.00E+00	



USG Drywall Suspension System – Stucco/Plaster/EIFS System Stockton, CA, Westlake, OH



Resource Usages for 1 Square Foot of Drywall Suspension - Stucco/Plaster/EIFS System										
Use of Primary Resources	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	4.53E-01	5.83E-03	3.52E-02	0.00E+00	1.20E-03	0.00E+00	1.21E-03	4.96E-01	9.24E-02
Renewable primary resources with energy content used as material (RPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-renewable primary resources used as an energy carrier (NRPRE)	MJ, NCV	6.58E+00	1.46E-01	5.15E-01	0.00E+00	3.02E-02	0.00E+00	9.02E-03	7.28E+00	-2.34E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	р
Secondary material (SM)	kg	5.80E-04	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04	0.00E+00
Renewable secondary fuel (RSF)	MJ. NCV	0.00E+00	0.00E+00	0.00E+00	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	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	0.00E+00	0.00E+00	0.00E+00
Consumption of fresh water	m3	3.67E-02	2.00E-05	2.76E-03	0.00E+00	4.12E-06	0.00E+00	2.22E-06	3.94E-02	-2.38E-02
Additional inventory parameters for transparency	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	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.	-6.17E-05	0.00E+00	6.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from land use change	kg CO2-eq.	1.08E-04	1.18E-05	9.66E-06	0.00E+00	2.43E-06	0.00E+00	2.00E-06	1.34E-04	-3.13E-05
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	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	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D
Hazardous waste disposed	kg	2.75E-06	4.21E-13	2.07E-07	0.00E+00	8.67E-14	0.00E+00	9.57E-13	2.96E-06	-1.75E-08
Non-hazardous waste disposed	kg	1.10E-02	1.27E-05	6.34E-03	0.00E+00	2.62E-06	0.00E+00	4.50E-02	6.24E-02	2.83E-02
High-level radioactive waste	kg	1.08E-05	4.19E-07	9.24E-07	0.00E+00	8.65E-08	0.00E+00	9.45E-08	1.24E-05	2.57E-07
Intermediate and low-level waste	kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
										_
Assignments of output flows at the end-of-life	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D
Components for re-use (CRU)	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	kg									
Materials for recycling (MR)	-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling (MR) Materials for energy recovery (MER)	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling (MR) Materials for energy recovery (MER)	-									
Materials for recycling (MR) Materials for energy recovery (MER)	kg MJ, NCV	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling (MR) Materials for energy recovery (MER) Recovered energy exported (EE) Resource Usages for 1 Metric 7	kg MJ, NCV	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling (MR) Materials for energy recovery (MER) Recovered energy exported (EE)	kg MJ, NCV	0.00E+00 0.00E+00 vwall Sus	0.00E+00 0.00E+00 pension	0.00E+00 0.00E+00 - Stucco/	0.00E+00 0.00E+00 Plaster/El	0.00E+00 0.00E+00 FS Syste	0.00E+00 0.00E+00 M	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00
Materials for recycling (MR) Materials for energy recovery (MER) Recovered energy exported (EE) Resource Usages for 1 Metric 7 Use of Primary Resources	kg MJ, NCV Fon of Dry Units	0.00E+00 0.00E+00 /wall Sus A1-A3	0.00E+00 0.00E+00 pension	0.00E+00 0.00E+00 • Stucco/	0.00E+00 0.00E+00 Plaster/El	0.00E+00 0.00E+00 FS Syste	0.00E+00 0.00E+00 m C3	0.00E+00 0.00E+00 C4	0.00E+00 0.00E+00 Total A1-C4	0.00E+00 0.00E+00 D
Materials for recycling (MR) Materials for energy recovery (MER) Recovered energy exported (EE) Resource Usages for 1 Metric 7 Use of Primary Resources Renewable primary resources used as an energy carrier (RPRE)	kg MJ, NCV Fon of Dry Units MJ, NCV	0.00E+00 0.00E+00 /wall Sus A1-A3 2.65E+03	0.00E+00 0.00E+00 pension A4 3.41E+01	0.00E+00 0.00E+00 • Stucco/ A5 2.06E+02	0.00E+00 0.00E+00 Plaster/El C1 0.00E+00	0.00E+00 0.00E+00 FS Syste C2 7.03E+00	0.00E+00 0.00E+00 m C3 0.00E+00	0.00E+00 0.00E+00 C4 7.10E+00	0.00E+00 0.00E+00 Total A1-C4 2.90E+03	0.00E+00 0.00E+00 D 5.41E+02
Materials for recycling (MR) Materials for energy recovery (MER) Recovered energy exported (EE) Resource Usages for 1 Metric 7 Use of Primary Resources Renewable primary resources used as an energy carrier (RPRE) Renewable primary resources with energy content used as material (RPRM)	kg MJ, NCV Fon of Dry Units MJ, NCV MJ, NCV	0.00E+00 0.00E+00 wall Sus A1-A3 2.65E+03 0.00E+00	0.00E+00 0.00E+00 pension - A4 3.41E+01 0.00E+00	0.00E+00 0.00E+00 • Stucco/ A5 2.06E+02 0.00E+00	0.00E+00 0.00E+00 Plaster/El C1 0.00E+00 0.00E+00	0.00E+00 0.00E+00 FS Syste C2 7.03E+00 0.00E+00	0.00E+00 0.00E+00 m C3 0.00E+00 0.00E+00	0.00E+00 0.00E+00 C4 7.10E+00 0.00E+00	0.00E+00 0.00E+00 Total A1-C4 2.90E+03 0.00E+00	0.00E+00 0.00E+00 D 5.41E+02 0.00E+00
Materials for recycling (MR) Materials for energy recovery (MER) Recovered energy exported (EE) Resource Usages for 1 Metric 7 Use of Primary Resources Renewable primary resources used as an energy carrier (RPRE) Renewable primary resources with energy content used as material (RPRM) Non-renewable primary resources with energy content used as material (NRPRM) Non-renewable primary resources with energy content used as material (NRPRM)	kg MJ, NCV Fon of Dry Units MJ, NCV MJ, NCV MJ, NCV	0.00E+00 0.00E+00 wall Sus A1-A3 2.65E+03 0.00E+00 3.85E+04	0.00E+00 0.00E+00 pension - A4 3.41E+01 0.00E+00 8.55E+02	0.00E+00 0.00E+00 • Stucco/ A5 2.06E+02 0.00E+00 3.01E+03	0.00E+00 0.00E+00 Plaster/El 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 FS Syste C2 7.03E+00 0.00E+00 1.76E+02	0.00E+00 0.00E+00 m C3 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 C4 7.10E+00 0.00E+00 5.27E+01	0.00E+00 0.00E+00 Total A1-C4 2.90E+03 0.00E+00 4.26E+04	0.00E+00 0.00E+00 D 5.41E+02 0.00E+00 -1.37E+04
Materials for recycling (MR) Materials for energy recovery (MER) Recovered energy exported (EE) Resource Usages for 1 Metric T Use of Primary Resources Renewable primary resources used as an energy carrier (RPRE) Renewable primary resources used as an energy carrier (NRPRE)	kg MJ, NCV Fon of Dry Units MJ, NCV MJ, NCV MJ, NCV	0.00E+00 0.00E+00 wall Sus 2.65E+03 0.00E+00 3.85E+04 0.00E+00	0.00E+00 0.00E+00 pension A4 3.41E+01 0.00E+00 8.55E+02 0.00E+00	0.00E+00 0.00E+00 - Stucco// 2.06E+02 0.00E+00 3.01E+03 0.00E+00	0.00E+00 0.00E+00 Plaster/El 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 FS Syste C2 7.03E+00 0.00E+00 1.76E+02 0.00E+00	0.00E+00 0.00E+00 m C3 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 C4 7.10E+00 0.00E+00 5.27E+01 0.00E+00	0.00E+00 0.00E+00 Total A1-C4 2.90E+03 0.00E+00 4.26E+04 0.00E+00	0.00E+00 0.00E+00 5.41E+02 0.00E+00 -1.37E+04 0.00E+00
Materials for recycling (MR) Materials for energy recovery (MER) Recovered energy exported (EE) Resource Usages for 1 Metric 7 Use of Primary Resources Renewable primary resources used as an energy carrier (RPRE) Renewable primary resources with energy content used as material (RPRM) Non-renewable primary resources used as an energy carrier (NRPRE) Non-renewable primary resources with energy content used as material (RPRM) Non-renewable primary resources with energy content used as material (NRPRM) Secondary material, secondary fuel and recovered energy Secondary material (SM)	kg MJ, NCV Fon of Dry Units MJ, NCV MJ, NCV MJ, NCV MJ, NCV Units	0.00E+00 0.00E+00 wall Sus 2.65E+03 0.00E+00 3.85E+04 0.00E+00 A1-A3	0.00E+00 0.00E+00 pension A4 3.41E+01 0.00E+00 8.55E+02 0.00E+00 A4	0.00E+00 0.00E+00 Stucco// 2.06E+02 0.00E+00 3.01E+03 0.00E+00 A5	0.00E+00 0.00E+00 Plaster/El 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C1	0.00E+00 0.00E+00 FS Syste C2 7.03E+00 0.00E+00 1.76E+02 0.00E+00 C2	0.00E+00 0.00E+00 m C3 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C3	0.00E+00 0.00E+00 C4 7.10E+00 0.00E+00 5.27E+01 0.00E+00 C4	0.00E+00 0.00E+00 Total A1-C4 2.90E+03 0.00E+00 4.26E+04 0.00E+00 Total A1-C4	0.00E+00 0.00E+00 5.41E+02 0.00E+00 -1.37E+04 0.00E+00 D
Materials for recycling (MR) Materials for energy recovery (MER) Recovered energy exported (EE) Resource Usages for 1 Metric 7 Use of Primary Resources Renewable primary resources used as an energy carrier (RPRE) Renewable primary resources used as an energy carrier (RPRE) Non-renewable primary resources used as an energy carrier (RPRE) Non-renewable primary resources with energy content used as material (RPRM) Non-renewable primary resources with energy content used as material (NRPRE) Non-renewable primary resources with energy content used as material (NRPRM) Secondary material, secondary fuel and recovered energy Secondary material (SM) Renewable secondary fuel (RSF)	kg MJ, NCV Fon of Dry Units MJ, NCV MJ, NCV MJ, NCV MJ, NCV MJ, NCV MJ, NCV	0.00E+00 0.00E+00 wall Sus A1-A3 2.65E+03 0.00E+00 3.85E+04 0.00E+00 A1-A3 3.39E+00	0.00E+00 0.00E+00 pension A4 3.41E+01 0.00E+00 8.55E+02 0.00E+00 A4 0.00E+00	0.00E+00 0.00E+00 Stucco// A5 2.06E+02 0.00E+00 3.01E+03 0.00E+00 A5 2.55E-01	0.00E+00 0.00E+00 Plaster/El 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 FS Syste C2 7.03E+00 0.00E+00 1.76E+02 0.00E+00	0.00E+00 0.00E+00 m C3 0.00E+00 0.00E+00 0.00E+00 C3 0.00E+00	0.00E+00 0.00E+00 C4 7.10E+00 0.00E+00 5.27E+01 0.00E+00 C4 0.00E+00	0.00E+00 0.00E+00 Total A1-C4 2.90E+03 0.00E+00 4.26E+04 0.00E+00 Total A1-C4 3.65E+00	0.00E+00 0.00E+00 D 5.41E+02 0.00E+00 -1.37E+04 0.00E+00 D 0.00E+00
Materials for recycling (MR) Materials for energy recovery (MER) Recovered energy exported (EE) Resource Usages for 1 Metric Use of Primary Resources Renewable primary resources used as an energy carrier (RPRE) Renewable primary resources used as an energy carrier (RPRE) Non-renewable primary resources used as an energy carrier (NRPRE) Non-renewable primary resources with energy content used as material (RPRM) Secondary material, secondary fuel and recovered energy Secondary fuel (RSF) Non-renewable secondary fuel (NRSF)	kg MJ, NCV Fon of Dry Units MJ, NCV MJ, NCV MJ, NCV Units kg MJ, NCV	0.00E+00 0.00E+00 wall Sus 2.65E+03 0.00E+00 3.85E+04 0.00E+00 A1-A3 3.39E+00 0.00E+00	0.00E+00 0.00E+00 pension - A4 3.41E+01 0.00E+00 8.55E+02 0.00E+00 A4 0.00E+00 0.00E+00	0.00E+00 0.00E+00 Stucco// A5 2.06E+02 0.00E+00 3.01E+03 0.00E+00 A5 2.55E-01 0.00E+00	0.00E+00 0.00E+00 Plaster/El 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 FS Syste C2 7.03E+00 0.00E+00 1.76E+02 0.00E+00 C2 0.00E+00 0.00E+00	0.00E+00 0.00E+00 m C3 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C3 0.00E+00 0.00E+00	0.00E+00 0.00E+00 C4 7.10E+00 0.00E+00 5.27E+01 0.00E+00 C4 0.00E+00 0.00E+00	0.00E+00 0.00E+00 Total A1-C4 2.90E+03 0.00E+00 4.26E+04 0.00E+00 Total A1-C4 3.65E+00 0.00E+00	0.00E+00 0.00E+00 D 5.41E+02 0.00E+00 -1.37E+04 0.00E+00 0.00E+00 0.00E+00
Materials for recycling (MR) Materials for energy recovery (MER) Recovered energy exported (EE) Resource Usages for 1 Metric 7 Use of Primary Resources Renewable primary resources used as an energy carrier (RPRE) Renewable primary resources used as an energy carrier (RPRE) Non-renewable primary resources used as an energy carrier (NPRE) Non-renewable primary resources with energy content used as material (RPRM) Non-renewable primary resources with energy content used as material (NRPRM) Secondary material, secondary fuel and recovered energy Secondary material (SM) Renewable secondary fuel (RSF)	kg MJ, NCV Fon of Dry Units MJ, NCV MJ, NCV MJ, NCV Units kg MJ, NCV MJ, NCV	0.00E+00 0.00E+00 wall Sus 2.65E+03 0.00E+00 3.85E+04 0.00E+00 A1-A3 3.39E+00 0.00E+00	0.00E+00 0.00E+00 pension 44 3.41E+01 0.00E+00 8.55E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 Stucco// 2.06E+02 0.00E+00 3.01E+03 0.00E+00 A5 2.55E-01 0.00E+00 0.00E+00	0.00E+00 0.00E+00 Plaster/El 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 FS Systee C2 7.03E+00 0.00E+00 1.76E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 m C3 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 C4 7.10E+00 0.00E+00 5.27E+01 0.00E+00 C4 0.00E+00 0.00E+00	0.00E+00 0.00E+00 70tal A1-C4 2.30E+03 0.00E+00 4.26E+04 0.00E+00 70tal A1-C4 3.65E+00 0.00E+00	0.00E+00 0.00E+00 5.41E+02 0.00E+00 -1.37E+04 0.00E+00 0.00E+00 0.00E+00 0.00E+00

Additional inventory parameters for transparency Units A1-A3 A4 A5 C1 C2 C3 C4 Total A1-C4 D Removals and emissions associated with biogenic carbon content of the bio-based product kg CO2-eq. 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Emission from calcination and uptake from carbonatio kg CO2-eq. 0.00E+00 0.00E+00 0.00E+00 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 packag kg CO2-eq. -3.61E-01 0.00E+00 3.61E-01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 kg CO2-eq. 6.31E-01 6.91E-02 5.65E-02 0.00E+00 1.42E-02 0.00E+00 7.82E-01 -1.83E-01 Emissions from land use change 1.17E-02 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 0.00E+00 0.00E+00 0.00E+00 Emissions from combustion of waste from non-renewable sources used in production processe kg CO2-eq. 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

Indicators describing waste	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D
Hazardous waste disposed	kg	1.61E-02	2.46E-09	1.21E-03	0.00E+00	5.07E-10	0.00E+00	5.60E-09	1.73E-02	-1.02E-04
Non-hazardous waste disposed	kg	6.46E+01	7.44E-02	3.71E+01	0.00E+00	1.53E-02	0.00E+00	2.63E+02	3.65E+02	1.66E+02
High-level radioactive waste	kg	6.34E-02	2.45E-03	5.40E-03	0.00E+00	5.06E-04	0.00E+00	5.53E-04	7.23E-02	1.50E-03
Intermediate and low-level waste	kg	N/A	N/A							
Assignments of output flows at the end-of-life	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D
Components for re-use (CRU)	kg	0.00E+00	0.00E+00							
Materials for recycling (MR)	kg	0.00E+00	0.00E+00							
Materials for energy recovery (MER)	kg	0.00E+00	0.00E+00							
Recovered energy exported (EE)	MJ, NCV	0.00E+00	0.00E+00							



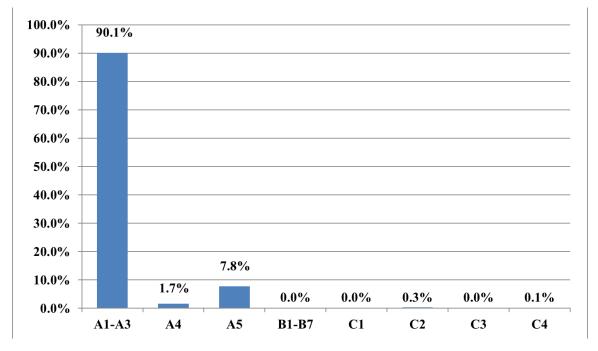


Comparisons cannot be made between product-specific or industry average EPDs at the design stage of a project, before a building or construction works has been specified. Comparisons may be made between product-specific or industry average EPDs at the time of product purchase only when product or construction works performance and specifications have been established and serve as a functional unit for comparison. Environmental impact results shall be converted to a functional unit basis before any comparison is attempted. Any comparison of EPDs shall be subject to the requirements of ISO 21930 or EN 15804. EPDs are not comparative assertions and are either not comparable or have limited comparability when they have different system boundaries, are based on different product category rules or. are missing relevant environmental impacts. Such comparisons can be inaccurate and could lead to erroneous selection of materials or products that are higher impact, at least in some impact categories.

5. LCA Interpretation

The A1-C4 LCA results for the USG[™] Drywall Suspension System for Stucco/Plaster/EIFS System were dominated by product manufacturing; specifically the production of the steel coil.







Environmental Product Declaration USG Drywall Suspension System – Stucco/Plaster/EIFS System

Stockton, CA, Westlake, OH



6. References

LCA Report

A Cradle-to-Gate and Cradle-to-Grave Life Cycle Assessment of USG Suspension System Products, 2/5/24. USG (Confidential)

Product PCR

PCR for Building-Related Products and Services - Part A: Calculation Rules for the LCA and Requirements Project Report, (IBU/UL Environment document number 10010, revision V3.2, December 2018)

UL Environment: Product Category Rules for Building-Related Products and Services Part B: Metal Ceiling and Wall System EPD Requirements, January 15, 2020

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/Amended 1:2020 - Environmental management – Life cycle assessment – Principles and framework

ISO 14044:2006/amended 2: 2020 - 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 21930:2017 - Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services

