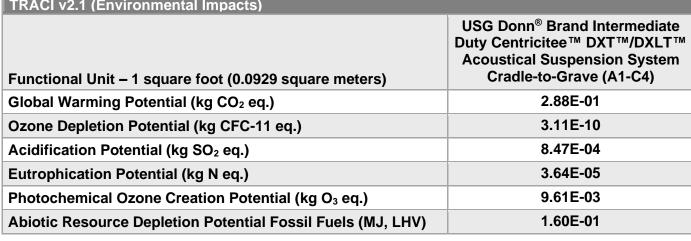


### **Features and Benefits**

- 9/16" exposed grid provides a clean aesthetic. •
- Compatible with USG Logix<sup>™</sup> Integrated Ceiling Systems. •
- Cross-tee override-ends resist twisting and ensure a finished • look.
- Proprietary Quick-Release<sup>™</sup> cross tees. •
- High recycled content (HRC) available. •
- Seismic installation designs validated in ICC-ES Evaluation • Report ESR-1222.
- Premium and custom colors available. •
- Some items available in metric sizes. •
- USG Donn<sup>®</sup> Brand Centricitee<sup>™</sup> DXT<sup>™</sup>/DXLT<sup>™</sup> Acoustical Suspension System is part of the Ecoblueprint<sup>™</sup> portfolio; meeting today's sustainability standards. For sustainability documentation go to USG.com or CGCInc.com.

TRACI v2.1 (	Environmental	Impacts)



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.





## Environmental Product Declaration USG DONN® BRAND CENTRICITEE™ DXT™/DXLT™ ACOUSTICAL SUSPENSION SYSTEM Stockton, CA, Westlake, OH



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 648				
EPD TYPE	Product Specific Plant Averaged EF	PD			
PROGRAM OPERATOR	ASTM International – 100 Barr Harb www.astm.or	oor Drive, West Conshohocken, PA USA			
DECLARATION HOLDER	USG Corporation - 550 W. Adams S	St., Chicago, IL USA			
EPD Type	Type III Declaration per ISO 14025:	2006			
DECLARED PRODUCT	USG <sup>™</sup> Donn <sup>®</sup> Brand Centricitee <sup>™</sup>	DXT™/DXLT™ Acoustical Suspension System			
DATE OF ISSUE PERIOD OF VALIDITY	4/1/24 5 Years				
CORE STANDARD	ISO 21930				
CORE PCR		Rules for Construction Products for Building- orth America; Part A: Life Cycle Assessment irements. v3.2, December 2018			
SUB-CATEGORY PCR		r Building-Related Products and Services; Part			
ACLCA PCR OPEN STANDARD CONFORMANCE	Transparency				
ACLCA PCR OPEN STANDARD VERSION	Version 1.0   May 25, 2022				
This declaration was independentl 14025 and ISO 21930:2017 □ INTERNAL	y verified in accordance with ISO ⊠ EXTERNAL	Tim Brooke, ASTM International			
This life cycle assessment was inc with ISO 14044 and the reference		Thomas P. Gloria, Industrial Ecology Consultants			





## 1. Product System Documentation

## **1.1 Product Description**

The USG<sup>™</sup> Donn<sup>®</sup> Brand Centricitee<sup>™</sup> DXT<sup>™</sup>/DXLT<sup>™</sup> Acoustical Suspension System is roll formed with a hot dipped galvanized body, and a painted cap. The system is generally used to suspend acoustical ceiling tiles and/or metal panels. 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<sup>™</sup> Donn<sup>®</sup> Brand Centricitee<sup>™</sup> DXT<sup>™</sup>/DXLT<sup>™</sup> profiles.

The USG<sup>™</sup> Donn<sup>®</sup> Brand Centricitee<sup>™</sup> DXT<sup>™</sup>/DXLT<sup>™</sup> Acoustical Suspension System is covered by the following Construction Specification Institute (CSI) MasterFormat<sup>®</sup> codes.

09 22 26.23 Metal Suspension System09 53 00 Acoustical Ceiling Suspension System09 53 23 Metal Acoustical Ceiling Suspension Assemblies09 54 36 Suspended Decorative Grids

Corresponding applicable UNSPSC codes include:

25172000 Suspension System Components

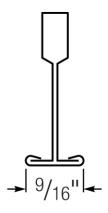
### **1.2 Designated Application**

The USG<sup>™</sup> Donn<sup>®</sup> Brand Acoustical Suspension 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
- Evaluated for seismic applications per ICC-ES evaluation report ESR-1222 for allowable values and conditions of use.





## Environmental Product Declaration USG DONN<sup>®</sup> BRAND CENTRICITEE™ DXT™/DXLT™ ACOUSTICAL SUSPENSION SYSTEM Stockton, CA, Westlake, OH



### 1.4 Placing on the Market/Application Rules

The USG<sup>™</sup> Donn<sup>®</sup> Brand Acoustical Suspension 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</u> <u>Guide: Suspended Ceiling</u>, is available on usg.com and cgcinc.com.

### 1.5 Delivery Status

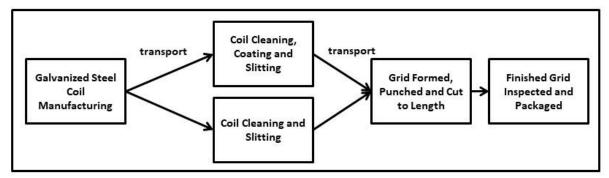
The USG<sup>™</sup> Donn<sup>®</sup> Brand Centricitee <sup>™</sup> DXT<sup>™</sup>/DXLT<sup>™</sup> Acoustical Suspension System arrives at the jobsite in cardboard boxes, which have been modeled in this study.

#### **1.6 Product Composition**

Material	USG™ Donn <sup>®</sup> Brand Intermediate Duty Centricitee™ DXT™/DXLT™ Acoustical Suspension System	USG™ Donn <sup>®</sup> Brand Heavy Duty Centricitee™ DXL™/ DXLT™ Acoustical Suspension System
Galvanized Steel Coil	99.6%	99.7%
Paint	0.4%	0.3%
Total	100%	100%

#### Table 1.2: Product composition

### **1.7 Product Manufacture**



During the manufacturing process, two pieces of galvanized steel coil are 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.

### 1.9 Packaging

The USG<sup>™</sup> Donn<sup>®</sup> Brand Centricitee<sup>™</sup> DXT<sup>™</sup>/DXLT<sup>™</sup> Acoustical Suspension 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

To ensure the longevity of the product, USG<sup>™</sup> Donn<sup>®</sup> Brand Centricitee<sup>™</sup> DXT<sup>™</sup>/DXLT<sup>™</sup> Acoustical Suspension System should not be exposed to moisture, high humidity, or high temperature. 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<sup>™</sup> Donn<sup>®</sup> Brand Centricitee<sup>™</sup> DXT<sup>™</sup>/DXLT<sup>™</sup> Acoustical Suspension System must be installed according to ASTM C636, ASTM E580, CISCA and USG requirements. Alternate installation methods may be used when approved by the authority having jurisdiction. An approved installation guide entitled, <u>Acoustical Suspension System – Installation</u> <u>Guide: Suspended Ceiling</u>, is 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<sup>™</sup> Donn<sup>®</sup> Brand Centricitee<sup>™</sup> DXT<sup>™</sup>/DXLT<sup>™</sup> Acoustical Suspension 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

With proper care, USG<sup>™</sup> Donn<sup>®</sup> Brand Centricitee<sup>™</sup> DXT<sup>™</sup>/DXLT<sup>™</sup> Acoustical Suspension System components are designed for disassembly and may be reused at the end of a building's life.

### 1.16 End-of-Life Disposal

USG<sup>™</sup> Donn<sup>®</sup> Brand Centricitee<sup>™</sup> DXT<sup>™</sup>/DXLT<sup>™</sup> Acoustical Suspension 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).

### 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

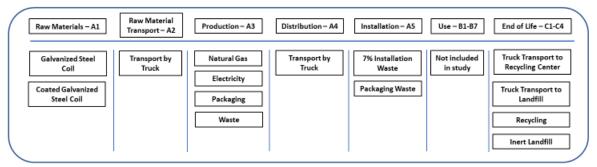
The functional unit is defined as 1 square meter with optional reporting of one square foot (12"x12") of installed product.

	USG™ Donn <sup>®</sup> Brand Interemdiate Duty Centricitee™ DXT™/DXLT™ Acoustical Suspension System	USG™ Donn <sup>®</sup> Brand Heavy Duty Centricitee™ DXT™/ DXLT™ Acoustical Suspension System
Functional Unit	9.39E-01 kg/sm	1.08E+00 kg/sm



## 2.2 System Boundary

This EPD represents a "cradle-to-grave" LCA analysis for USG<sup>™</sup> Donn<sup>®</sup> Brand Centricitee<sup>™</sup> DXT<sup>™</sup>/DXLT<sup>™</sup> Acoustical Suspension System. 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

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 steel 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.



## Environmental Product Declaration USG DONN<sup>®</sup> BRAND CENTRICITEE™ DXT™/DXLT™ ACOUSTICAL SUSPENSION SYSTEM Stockton, CA, Westlake, OH



## 3. LCA: Scenarios and additional technical information

Name	USG™ Donn <sup>®</sup> Brand Intermediate Duty Centricitee™ DXT™/DXLT™ Acoustical Suspension System	USG™ Donn <sup>®</sup> Brand Heavy Duty Centricitee™ DXT™/DXLT™ Acoustical Suspension System	Unit
Fuel type	Diesel	Diesel	-
Liters of fuel (including	2.29E-03	2.62E-03	l/100km/sm
Vehicle type	US Truck	US Truck	-
Transport distance	800	800	km
Capacity	0.67	0.67	
Gross density of products transported	7,700	7,700	kg/m³

### Table 3.1. Transport to the building site (A4)

### Table 3.2. Installation into the building (A5)

Name	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)

Name	Value	Unit
RSL	75	years
VOC	< 9	µg/m³





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						

#### Table 3.4. Maintenance (B2)

#### Table 3.5. End of Life (C1-C4)

Name		USG <sup>™</sup> Donn <sup>®</sup> Brand Intermediate Duty Centricitee <sup>™</sup> DXT <sup>™</sup> /DXLT <sup>™</sup> Acoustical Suspension System	USG <sup>™</sup> Donn <sup>®</sup> Brand Heavy Duty Centricitee <sup>™</sup> DXT <sup>™</sup> /DXLT <sup>™</sup> Acoustical Suspension System	Unit
Collection	Collected	0	0	kg
process (specified by type)	ified by mixed 0		0	kg/sm
	Reuse	0	0	kg
	Recycling	6.95E-01	7.99E-01	kg/sm
Recovery	Landfill (steel)	2.44E-01	2.81E-01	kg/sm
(specified by type)	Incineration	0	0	Kg
	Incineration	0	0	Kg
	Energy	0	0	-
Disposal	Product or al material for 9.39E-01 final deposition		1.08E+00	kg/sm
	biogenic carbon g packaging)	0	0	kg/sm





## 4. Environmental Indicators Derived from LCA

## 4.1 Life Cycle Assessment Results

	Product stage			Construction process stage			Use stage			E	End of li	fe 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	<b>B6</b>	B7	C1	C2	C3	C4
X	Х	Х	Х	Х	Х	Х	Х	Х	X	X	Х	Х	Х	Х	Х

#### Figure 2: System Boundary

The following tables provide the LCA results for the USG <sup>™</sup> Donn<sup>®</sup> Brand Centricitee <sup>™</sup> DXT<sup>™</sup>/DXLT<sup>™</sup> Acoustical Suspension System. 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. The results presented below are derived from an LCA study on a hypothetical 20'x50' ceiling with component quantities provided by the USG Ceilings Material Estimator, which can be found on the usg.com website.

North American LCA Environmental Impacts - 1 Square Meter of Donn <sup>®</sup> Brand Centricitee™ Intermediate Duty DXT™/DXLT™  Grid - 2'X2' Layout												
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.	2.77E+00	4.92E-02	2.63E-01	0.00E+00	1.17E-02	0.00E+00	3.62E-03	3.10E+00	-1.28E+00		
Ozone Depletion Potential (ODP)	kg CFC 11-eq.	3.11E-09	1.28E-16	2.34E-10	0.00E+00	3.04E-17	0.00E+00	1.91E-17	3.35E-09	3.51E-14		
Acidification Potential (AP)	kg SO2 eq.	8.19E-03	1.97E-04	6.81E-04	0.00E+00	2.87E-05	0.00E+00	2.26E-05	9.12E-03	-2.56E-03		
Eutrophication Potential (EP)	kg N eq.	3.23E-04	1.82E-05	4.69E-05	0.00E+00	3.17E-06	0.00E+00	9.76E-07	3.92E-04	-1.53E-04		
Photochemical Ozone Creation Potential (POCP)	kg O3-Equiv.	9.01E-02	4.56E-03	7.69E-03	0.00E+00	6.54E-04	0.00E+00	4.33E-04	1.03E-01	-2.76E-02		
Abiotic Depletion Potential (ADP) fossil fuels	MJ surplus energy	1.47E+00	9.21E-02	1.28E-01	0.00E+00	2.19E-02	0.00E+00	6.14E-03	1.72E+00	-1.63E-03		

North American LCA Environmental Impacts - 1 Square Foot of												
Donn <sup>®</sup> Brand Centricitee™ Intermediate Duty DXT™/DXLT™  Grid - 2'X2' Layout												
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.	2.57E-01	4.57E-03	2.44E-02	0.00E+00	1.09E-03	0.00E+00	3.37E-04	2.88E-01	-1.19E-01		
Ozone Depletion Potential (ODP)	kg CFC 11-eq.	2.89E-10	1.19E-17	2.18E-11	0.00E+00	2.82E-18	0.00E+00	1.78E-18	3.11E-10	3.26E-15		
Acidification Potential (AP)	kg SO2 eq.	7.61E-04	1.83E-05	6.32E-05	0.00E+00	2.67E-06	0.00E+00	2.10E-06	8.47E-04	-2.37E-04		
Eutrophication Potential (EP)	kg N eq.	3.00E-05	1.69E-06	4.35E-06	0.00E+00	2.95E-07	0.00E+00	9.07E-08	3.64E-05	-1.42E-05		
Photochemical Ozone Creation Potential (POCP)	kg O3-Equiv.	8.37E-03	4.24E-04	7.15E-04	0.00E+00	6.08E-05	0.00E+00	4.03E-05	9.61E-03	-2.56E-03		
Abiotic Depletion Potential (ADP) fossil fuels	MJ surplus energy	1.37E-01	8.55E-03	1.19E-02	0.00E+00	2.04E-03	0.00E+00	5.71E-04	1.60E-01	-1.52E-04		





	th American L Brand Centricit			•	•					
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.	3.12E+00	5.62E-02	2.92E-01	0.00E+00	1.34E-02	0.00E+00	4.16E-03	3.49E+00	-1.48E+00
Ozone Depletion Potential (ODP)	kg CFC 11-eq.	3.11E-09	1.46E-16	2.34E-10	0.00E+00	3.49E-17	0.00E+00	2.20E-17	3.34E-09	4.03E-14
Acidification Potential (AP)	kg SO2 eq.	8.49E-03	2.25E-04	7.08E-04	0.00E+00	3.30E-05	0.00E+00	2.60E-05	9.49E-03	-2.94E-03
Eutrophication Potential (EP)	kg N eq.	3.66E-04	2.08E-05	5.13E-05	0.00E+00	3.64E-06	0.00E+00	1.12E-06	4.43E-04	-1.75E-04
Photochemical Ozone Creation Potential (POCP)	kg O3-Equiv.	1.05E-01	5.21E-03	8.88E-03	0.00E+00	7.52E-04	0.00E+00	4.98E-04	1.20E-01	-3.17E-02
Abiotic Depletion Potential (ADP) fossil fuels	MJ surplus energy	1.74E+00	1.05E-01	1.49E-01	0.00E+00	2.52E-02	0.00E+00	7.06E-03	2.03E+00	-1.87E-03

North American LCA Environmental Impacts - 1 Square Foot of													
Donn <sup>®</sup> E	Donn <sup>®</sup> Brand Centricitee™ Heavy Duty DXT™/DXLT™ Grid - 2'X2' Layout												
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.	2.90E-01	5.22E-03	2.72E-02	0.00E+00	1.25E-03	0.00E+00	3.87E-04	3.24E-01	-1.37E-01			
Ozone Depletion Potential (ODP)	kg CFC 11-eq.	2.89E-10	1.35E-17	2.17E-11	0.00E+00	3.25E-18	0.00E+00	2.04E-18	3.10E-10	3.75E-15			
Acidification Potential (AP)	kg SO2 eq.	7.89E-04	2.09E-05	6.58E-05	0.00E+00	3.06E-06	0.00E+00	2.42E-06	8.81E-04	-2.73E-04			
Eutrophication Potential (EP)	kg N eq.	3.40E-05	1.94E-06	4.76E-06	0.00E+00	3.39E-07	0.00E+00	1.04E-07	4.12E-05	-1.63E-05			
Photochemical Ozone Creation Potential (POCP)	kg O3-Equiv.	9.74E-03	4.84E-04	8.25E-04	0.00E+00	6.98E-05	0.00E+00	4.63E-05	1.12E-02	-2.94E-03			
Abiotic Depletion Potential (ADP) fossil fuels	MJ surplus energy	1.62E-01	9.77E-03	1.39E-02	0.00E+00	2.34E-03	0.00E+00	6.56E-04	1.88E-01	-1.74E-04			

North American LCA Environmental Impacts - 1 Metric Ton of
--

Donn <sup>®</sup> Bran	d Centricitee <sup>™</sup>	Interme	diate Dut	y DXT™/	DXLT™	Grid - 2'X	2' Layout			
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.	2.95E+03	5.24E+01	2.80E+02	0.00E+00	1.24E+01	0.00E+00	3.86E+00	3.29E+03	-1.37E+03
Ozone Depletion Potential (ODP)	kg CFC 11-eq.	3.31E-06	1.36E-13	2.49E-07	0.00E+00	3.24E-14	0.00E+00	2.04E-14	3.56E-06	3.73E-11
Acidification Potential (AP)	kg SO2 eq.	8.72E+00	2.10E-01	7.24E-01	0.00E+00	3.05E-02	0.00E+00	2.41E-02	9.71E+00	-2.72E+00
Eutrophication Potential (EP)	kg N eq.	3.43E-01	1.94E-02	4.99E-02	0.00E+00	3.38E-03	0.00E+00	1.04E-03	4.17E-01	-1.63E-01
Photochemical Ozone Creation Potential (POCP)	kg O3-Equiv.	9.59E+01	4.86E+00	8.19E+00	0.00E+00	6.96E-01	0.00E+00	4.61E-01	1.10E+02	-2.93E+01
Abiotic Depletion Potential (ADP) fossil fuels	MJ surplus energy	1.57E+03	9.80E+01	1.36E+02	0.00E+00	2.33E+01	0.00E+00	6.54E+00	1.83E+03	-1.74E+00

North American LCA Environmental Impacts - 1 Metric Ton of										
Donn <sup>®</sup> E	Brand Centricit	ee™ Hea	vy Duty D	XT™/DX	LT™ Gric	l - 2'X2' L	ayout			
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.	2.89E+03	5.21E+01	2.71E+02	0.00E+00	1.24E+01	0.00E+00	3.86E+00	3.23E+03	-1.37E+03
Ozone Depletion Potential (ODP)	kg CFC 11-eq.	2.88E-06	1.35E-13	2.17E-07	0.00E+00	3.24E-14	0.00E+00	2.04E-14	3.09E-06	3.73E-11
Acidification Potential (AP)	kg SO2 eq.	7.87E+00	2.09E-01	6.56E-01	0.00E+00	3.05E-02	0.00E+00	2.41E-02	8.79E+00	-2.72E+00
Eutrophication Potential (EP)	kg N eq.	3.39E-01	1.93E-02	4.75E-02	0.00E+00	3.38E-03	0.00E+00	1.04E-03	4.11E-01	-1.63E-01
Photochemical Ozone Creation Potential (POCP)	kg O3-Equiv.	9.71E+01	4.83E+00	8.22E+00	0.00E+00	6.96E-01	0.00E+00	4.61E-01	1.11E+02	-2.93E+01
Abiotic Depletion Potential (ADP) fossil fuels	MJ surplus energy	1.61E+03	9.74E+01	1.38E+02	0.00E+00	2.33E+01	0.00E+00	6.54E+00	1.88E+03	-1.74E+00





	Irce Usage	es for 1 S	quare Me	ter of						
Donn <sup>®</sup> Brand Centricitee™	Intermed				id - 2'X2'	Layout				
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	2.18E+00	2.77E-02	1.72E-01	0.00E+00	6.60E-03	0.00E+00	6.60E-03	2.39E+00	5.10E-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	3.20E+01	6.96E-01	2.54E+00	0.00E+00	1.66E-01	0.00E+00	4.90E-02	3.55E+01	-1.29E+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	1.15E-03	0.00E+00	8.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-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	1.69E-01	9.51E-05	1.27E-02	0.00E+00	2.26E-05	0.00E+00	1.21E-05	1.82E-01	-1.31E-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.	-7.88E-04	0.00E+00	7.88E-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.	5.28E-04	5.62E-05	4.94E-05	0.00E+00	1.34E-05	0.00E+00	1.09E-05	6.57E-04	-1.73E-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 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
		A1 A2		۸ <i>۶</i>	C1	<u> </u>		C4	Total A4 C 4	D
Indicators describing waste	Units	A1-A3	A4	A5	-	C2	C3		Total A1-C4	
Hazardous waste disposed	kg	2.73E-05	2.00E-12	2.06E-06	0.00E+00	4.76E-13	0.00E+00	5.20E-12	2.94E-05	-9.66E-08
Non-hazardous waste disposed	kg	6.68E-02	6.06E-05	5.65E-02	0.00E+00	1.44E-05	0.00E+00	2.45E-01	3.68E-01	1.56E-01
High-level radioactive waste	kg	9.12E-05	2.00E-06	7.71E-06	0.00E+00	4.75E-07	0.00E+00	5.14E-07	1.02E-04	1.41E-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
Reso										
Donn <sup>®</sup> Brand Centricitee™	Intermed	iate Duty	quare Fo DXT™/D							
_	-		-		id - 2'X2' <sup>C1</sup>	Layout c2	C3	C4	Total A1-C4	D
Donn <sup>®</sup> Brand Centricitee™	Intermed	iate Duty	DXT™/D	KLT™ Gri			C3 0.00E+00	C4 6.13E-04	Total A1-C4 2.22E-01	D 4.73E-02
Donn <sup>®</sup> Brand Centricitee™ Use of Primary Resources	Intermed Units	A1-A3	DXT™/D2 A4	XLT™ Gri <sup>A5</sup>	C1	C2				
Donn <sup>®</sup> Brand Centricitee™           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)	Intermed Units MJ, NCV	iate Duty A1-A3 2.03E-01	DXT ™/D2 A4 2.58E-03	XLT™ Gr A5 1.60E-02	C1 0.00E+00	C2 6.13E-04	0.00E+00	6.13E-04	2.22E-01	4.73E-02
Donn <sup>®</sup> Brand Centricitee <sup>TM</sup> Use of Primary Resources Renewable primary resources used as an energy carrier (RPRE) Renewable primary resources with energy content used as material (RPRM)	Intermed Units MJ, NCV MJ, NCV	A1-A3 2.03E-01 0.00E+00	DXT™/D2 A4 2.58E-03 0.00E+00	XLT <sup>™</sup> Gr A5 1.60E-02 0.00E+00	C1 0.00E+00 0.00E+00	C2 6.13E-04 0.00E+00	0.00E+00 0.00E+00	6.13E-04 0.00E+00	2.22E-01 0.00E+00	4.73E-02 0.00E+00
Donn <sup>®</sup> Brand Centricitee™           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)	Intermed Units MJ, NCV MJ, NCV MJ, NCV	A1-A3 2.03E-01 0.00E+00 2.97E+00	DXT ™/D2 A4 2.58E-03 0.00E+00 6.46E-02	XLT™ Gri A5 1.60E-02 0.00E+00 2.36E-01	C1 0.00E+00 0.00E+00 0.00E+00	C2 6.13E-04 0.00E+00 1.54E-02	0.00E+00 0.00E+00 0.00E+00	6.13E-04 0.00E+00 4.55E-03	2.22E-01 0.00E+00 3.30E+00	4.73E-02 0.00E+00 -1.20E+00
Donn <sup>®</sup> Brand Centricitee <sup>TM</sup> 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 (NRPRM)	Intermed Units MJ, NCV MJ, NCV MJ, NCV MJ, NCV	A1-A3 2.03E-01 0.00E+00 2.97E+00 0.00E+00	DXT ™/D2 A4 2.58E-03 0.00E+00 6.46E-02 0.00E+00	XLT™ Gri A5 1.60E-02 0.00E+00 2.36E-01 0.00E+00	C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00	6.13E-04 0.00E+00 4.55E-03 0.00E+00	2.22E-01 0.00E+00 3.30E+00 0.00E+00	4.73E-02 0.00E+00 -1.20E+00 0.00E+00
Donn <sup>®</sup> Brand Centricitee TM 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 (NRPRM) Secondary material, secondary fuel and recovered energy	Intermed Units MJ, NCV MJ, NCV MJ, NCV MJ, NCV Units	A1-A3 2.03E-01 0.00E+00 2.97E+00 0.00E+00 A1-A3	DXT <sup>TM</sup> /D2 A4 2.58E-03 0.00E+00 6.46E-02 0.00E+00 A4	XLT™ Gri A5 1.60E-02 0.00E+00 2.36E-01 0.00E+00 A5	C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00 C2	0.00E+00 0.00E+00 0.00E+00 0.00E+00 C3	6.13E-04 0.00E+00 4.55E-03 0.00E+00 C4	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4	4.73E-02 0.00E+00 -1.20E+00 0.00E+00 D
Donn <sup>®</sup> Brand Centricitee <sup>TM</sup> Use of Primary Resources Renewable primary resources used as an energy carrier (RPRE) Renewable primary resources used as an energy carrier (NRPRE) Non-renewable primary resources with energy content used as material (NRPRM) Non-renewable primary resources with energy content used as material (NRPRM) Secondary material, secondary fuel and recovered energy Secondary material (SM)	Intermed Units MJ, NCV MJ, NCV MJ, NCV MJ, NCV Units kg	A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04	DXT TM/D2 A4 2.58E-03 0.00E+00 6.46E-02 0.00E+00 A4 0.00E+00	KLT™ Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           8.01E-06	C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C1 0.00E+00	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00 C2 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 C3 0.00E+00	6.13E-04 0.00E+00 4.55E-03 0.00E+00 C4 0.00E+00	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04	4.73E-02 0.00E+00 -1.20E+00 0.00E+00 D 0.00E+00
Donn <sup>®</sup> Brand Centricitee <sup>TM</sup> 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 (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)	Intermed Units MJ, NCV MJ, NCV MJ, NCV MJ, NCV Units kg MJ, NCV	A1-A3 2.03E-01 0.00E+00 2.97E+00 0.00E+00 A1-A3 1.06E-04 0.00E+00	DXT TM/D2 A4 2.58E-03 0.00E+00 6.46E-02 0.00E+00 A4 0.00E+00 0.00E+00	KLT™ Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           8.01E-06           0.00E+00	C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00 C2 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 C3 0.00E+00 0.00E+00	6.13E-04 0.00E+00 4.55E-03 0.00E+00 C4 0.00E+00 0.00E+00	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00	4.73E-02 0.00E+00 -1.20E+00 0.00E+00 D 0.00E+00 0.00E+00
Donn <sup>®</sup> Brand Centricitee <sup>TM</sup> 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 (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 (NRSF) Non-renewable secondary fuel (NRSF)	Intermed Units MJ, NCV MJ, NCV MJ, NCV MJ, NCV Units kg MJ, NCV MJ, NCV	A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00           0.00E+00	DXT <sup>TM</sup> /D2 A4 2.58E-03 0.00E+00 6.46E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00	XLT™ Gri A5 1.60E-02 0.00E+00 2.36E-01 0.00E+00 A5 8.01E-06 0.00E+00 0.00E+00	C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00 C2 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	6.13E-04 0.00E+00 4.55E-03 0.00E+00 	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00 0.00E+00	4.73E-02 0.00E+00 -1.20E+00 0.00E+00 D 0.00E+00 0.00E+00 0.00E+00
Donn® Brand Centricitee TM 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) Secondary material, secondary fuel and recovered energy Secondary material (SM) Renewable secondary fuel (RSF) Non-renewable secondary fuel (NRSF) Renewable energy (RE)	Intermed Units MJ, NCV MJ, NCV MJ, NCV MJ, NCV Units kg MJ, NCV MJ, NCV	A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00	DXT <sup>TM</sup> /D2 A4 2.58E-03 0.00E+00 6.46E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	XLT <sup>M</sup> Gri A5 1.60E-02 0.00E+00 2.36E-01 0.00E+00 A5 8.01E-06 0.00E+00 0.00E+00 0.00E+00	C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C2 6.13E-04 0.00E+00 1.54E-02 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	6.13E-04 0.00E+00 4.55E-03 0.00E+00 C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00 0.00E+00 0.00E+00	4.73E-02 0.00E+00 -1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
Donn® Brand Centricitee TM 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) Secondary material, secondary fuel and recovered energy Secondary material (SM) Renewable secondary fuel (RSF) Non-renewable secondary fuel (NRSF) Renewable energy (RE) Consumption of fresh water	Intermed Units MJ, NCV MJ, NCV MJ, NCV Units kg MJ, NCV MJ, NCV MJ, NCV	Ate Duty           A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00           0.00E+00           1.06E-04           0.00E+00           1.57E-02	DXT ™/D)           A4           2.58E-03           0.00E+00           6.46E-02           0.00E+00	XLT™ Gri A5 1.60E-02 0.00E+00 2.36E-01 0.00E+00 A5 8.01E-06 0.00E+00 0.00E+00 0.00E+00 1.18E-03	C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.10E-06	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	6.13E-04 0.00E+00 4.55E-03 0.00E+00 C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.12E-06	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00 0.00E+00 0.00E+00 1.69E-02	4.73E-02 0.00E+00 -1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 -1.22E-02
Donn® Brand Centricitee™ 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 (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) Non-renewable secondary fuel (NRSF) Renewable energy (RE) Consumption of fresh water Additional inventory parameters for transparency	Intermed Units MJ, NCV MJ, NCV MJ, NCV MJ, NCV MJ, NCV MJ, NCV MJ, NCV m3	A1-A3           A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00           0.00E+00           0.00E+00           0.00E+00           1.57E-02           A1-A3	DXT <sup>TM</sup> /D) A4 2.58E-03 0.00E+00 6.46E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 8.83E-06 A4	XLT™ Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           8.01E-06           0.00E+00           0.00E+00           1.18E-03           A5	C1 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	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.10E-06 C2	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	6.13E-04 0.00E+00 4.55E-03 0.00E+00 C4 0.00E+00 0.00E+00 0.00E+00 1.12E-06 C4	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00 0.00E+00 0.00E+00 1.69E-02 Total A1-C4	4.73E-02 0.00E+00 -1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 -1.22E-02 D
Donn® Brand Centricitee™ 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 (NRPRM) Secondary material, secondary fuel and recovered energy Secondary material (SM) Renewable secondary fuel (RSF) Non-renewable secondary fuel (NRSF) Renewable secondary fuel (NRSF) Renewable energy (RE) Consumption of fresh water Additional inventory parameters for transparency Removals and emissions associated with biogenic carbon content of the bio-based product Emission from calcination and uptake from carbonation	Intermed Units MJ, NCV MJ, NCV	A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00           0.00E+00           0.00E+00           1.57E-02           A1-A3           0.00E+00	DXT <sup>TM</sup> /D) A4 2.58E-03 0.00E+00 6.46E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 8.33E-06 A4 0.00E+00	XLT™ Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           8.01E-06           0.00E+00           0.00E+00           0.00E+00           1.18E-03           A5           0.00E+00	C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C1 0.00E+00	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.10E-06 C2 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	6.13E-04 0.00E+00 4.55E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.12E-06 C4 0.00E+00	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00 0.00E+00 0.00E+00 1.69E-02 Total A1-C4 0.00E+00	4.73E-02 0.00E+00 -1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 -1.22E-02 D 0.00E+00
Donn® Brand Centricitee TM 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 (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) Non-renewable secondary fuel (RSF) Renewable energy (RE) Consumption of fresh water Additional inventory parameters for transparency Removals and emissions associated with biogenic carbon content of the bio-based product	Intermed Units MJ, NCV MJ, NCV	A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00           0.00E+00           0.00E+00           1.57E-02           A1-A3           0.00E+00           0.00E+00           0.00E+00           0.00E+00	DXT <sup>TM</sup> /D) A4 2.58E-03 0.00E+00 6.46E-02 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	XLT™ Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           8.01E-06           0.00E+00           0.00E+00           0.00E+00           1.18E-03           A5           0.00E+00           0.00E+00           0.00E+00	C1 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	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.10E-06 C2 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	6.13E-04 0.00E+00 4.55E-03 0.00E+00 C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.12E-06 C4 0.00E+00 0.00E+00	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	4.73E-02 0.00E+00 -1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 -1.22E-02 D 0.00E+00 0.00E+00 0.00E+00
Donn® Brand Centricitee TM 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 (RPRM) Non-renewable primary resources with energy content used as material (NPRM) Non-renewable primary resources with energy content used as material (NPRM) Secondary material, secondary fuel and recovered energy Secondary material (SM) Renewable secondary fuel (NRSF) Non-renewable energy (RE) Consumption of fresh water Additional inventory parameters for transparency Removals and emissions associated with biogenic carbon content of the bio-based product Emission from calcination and uptake from carbonation Removals and emissions associated with biogenic carbon content of the bio-based packaging	Intermed Units MJ, NCV MJ, NCV MJ, NCV MJ, NCV Units MJ, NCV MJ, NCV MJ, NCV MJ, NCV MJ, NCV MJ, NCV MJ, NCV MJ, NCV MJ, NCV MJ, NCV	A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00	DXT <sup>TM</sup> /D) A4 2.58E-03 0.00E+00 6.46E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	XLT™ Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           8.01E-06           0.00E+00           0.00E+00           0.00E+00           1.18E-03           A5           0.00E+00           0.00E+00           1.18E-03           A5           0.00E+00           7.32E-05	C1 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	C2 6.13E-04 0.00E+00 1.54E-02 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 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	6.13E-04 0.00E+00 4.55E-03 0.00E+00 C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	4.73E-02 0.00E+00 -1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 -1.22E-02 D 0.00E+00 0.00E+00 0.00E+00
Donn <sup>®</sup> Brand Centricitee <sup>TM</sup> 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 (NPRM) Non-renewable primary resources with energy content used as material (NPRM) Non-renewable primary resources with energy content used as material (NPRM) Secondary material, secondary fuel and recovered energy Secondary material (SM) Renewable secondary fuel (NSF) Non-renewable energy (RE) Consumption of fresh water Additional inventory parameters for transparency Removals and emissions associated with biogenic carbon content of the bio-based product Emission from calcination and uptake from carbonation Removals and emissions associated with biogenic carbon content of the bio-based packaging Emissions from land use change	Intermed Units MJ, NCV MJ, NCV MJ, NCV MJ, NCV Units kg MJ, NCV MJ, NCV m3 Units kg CO2-eq. kg CO2-eq. kg CO2-eq.	A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00           -7.32E-05           4.90E-05	DXT <sup>TM</sup> /D) A4 2.58E-03 0.00E+00 6.46E-02 0.00E+00	XLT™ Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           8.01E-06           0.00E+00           7.32E-05           4.59E-06	C1 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	C2 6.13E-04 0.00E+00 1.54E-02 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 1.24E-06	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	6.13E-04 0.00E+00 4.55E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.12E-06 C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.01E-06	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 0.00E+00 0.00E+00 1.65E-02 Total A1-C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 6.11E-05	4.73E-02 0.00E+00 -1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.22E-02 D 0.00E+00 0.00E+00 0.00E+00 0.00E+00 -1.61E-05
Donn® Brand Centricitee TM 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 (RPRM) Non-renewable primary resources with energy content used as material (NPRM) Secondary material, secondary fuel and recovered energy Secondary material (SM) Renewable secondary fuel (RSF) Non-renewable secondary fuel (NRSF) Renewable and enission associated with biogenic carbon content of the bio-based product Emission from calcination and uptake from carbonation Removals and emissions associated with biogenic carbon content of the bio-based packaging Emissions from land use change Emissions from combustion of waste from nen-renewable sources used in production processes Emissions from combustion of waste from nen-renewable sources used in production processes	Intermed Units MJ, NCV MJ, NCV	A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00	DXT <sup>TM</sup> /D) A4 2.58E-03 0.00E+00 6.46E-02 0.00E+00	XLT™ Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           8.01E-06           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           7.32E-05           4.59E-06           0.00E+00	C1 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	C2 6.13E-04 0.00E+00 1.54E-02 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 1.24E-06 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	6.13E-04 0.00E+00 4.55E-03 0.00E+00 C4 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	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	4.73E-02 0.00E+00 -1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 -1.22E-02 D 0.00E+00 0.00E+00 0.00E+00 0.00E+00 -1.51E-05 0.00E+00
Donn <sup>®</sup> Brand Centricitee <sup>TM</sup> 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 (RPRM) Non-renewable primary resources with energy content used as material (NPRM) Non-renewable primary resources with energy content used as material (NPRM) Secondary material, secondary fuel and recovered energy Secondary material (SM) Renewable secondary fuel (NRSF) Non-renewable secondary fuel (NRSF) Renewable secondary fuel (NRSF) Consumption of fresh water Additional inventory parameters for transparency Removals and emissions associated with biogenic carbon content of the bio-based product Emission from calcination and uptake from renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Indicators describing waste	Intermed Units MJ, NCV MJ, NCV	A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00           0.00E+00	DXT <sup>TM</sup> /D) A4 2.58E-03 0.00E+00 6.46E-02 0.00E+00	XLT™ Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           8.01E-06           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           7.32E-05           4.59E-06           0.00E+00           A5	C1 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	C2 6.13E-04 0.00E+00 1.54E-02 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 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	6.13E-04 0.00E+00 4.55E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.12E-06 C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Total A1-C4	4.73E-02 0.00E+00 -1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.22E-02 1.22E-02 0.00E+00 0.00E+00 0.00E+00 1.61E-05 0.00E+00 0.00E+00
Donn® Brand Centricitee™ 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 (NRPRM)      Secondary material, secondary fuel and recovered energy Secondary material (SM) Renewable secondary fuel (RSF) Non-renewable secondary fuel (RSF) Non-renewable secondary fuel (NRSF) Renewable energy (RE) Consumption of fresh water      Additional inventory parameters for transparency Removals and emissions associated with biogenic carbon content of the bio-based product Emission from calcination and uptake from carbonation Removals and emissions associated with biogenic carbon content of the bio-based packaging Emissions from combustion of waste from renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Indicators describing waste Hazardous waste disposed	Intermed Units MJ, NCV MJ, NCV	A1-A3           A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           1.57E-02           A1-A3           0.00E+00	DXT <sup>TM</sup> /D) A 2.58E-03 0.00E+00 6.46E-02 0.00E+00 0	XLT TM Gri A5 1.60E-02 0.00E+00 2.36E-01 0.00E+000E+0	C1 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	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00 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 0.00E+00 0.00E+00	6.13E-04 0.00E+00 4.55E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.12E-06 C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 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 Total A1-C4 2.73E-06	4.73E-02 0.00E+00 1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.122E-02 D 0.00E+00 0.00E+00 0.00E+00 1.61E-05 0.00E+00 0.00E+00 1.61E-05 0.00E+00 0.00E+00 1.61E-05
Donn® Brand Centricitee TM 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 (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) Non-renewable secondary fuel (RSF) Renewable secondary fuel (RSF) Renewab	Intermed Units MJ, NCV MJ, NCV	A1-A3           A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00           0.00E+00           0.00E+00           0.00E+00           1.57E-02           A1-A3           0.00E+00           A1-A3           2.54E-06           6.20E-03	DXT <sup>TM</sup> /D) A 2.58E-03 0.00E+00 6.46E-02 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 A 4 1.86E-13 5.63E-06	XLT™ Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           8.01E-06           0.00E+00           A5           1.91E-07           5.25E-03	C1 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	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00 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 0.00E+00 0.00E+00	6.13E-04 0.00E+00 4.55E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.12E-06 C4 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 1.01E-06	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00 0.00E+00 0.00E+00 1.69E-02 Total A1-C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Total A1-C4 2.73E-06 3.42E-02	4.73E-02 0.00E+00 1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.122E-02 D 0.00E+00 0.00E+00 0.00E+00 1.61E-05 0.00E+00 0.00E+00 1.61E-05 0.00E+00 1.61E-05 0.00E+00 0.
Donn® Brand Centricitee TM 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) Secondary material, secondary fuel and recovered energy Secondary material (SM) Renewable secondary fuel (RSF) Non-renewable secondary fuel (RSF) Renewable secondary fuel (RSF) Renewable secondary fuel (RSF) Renewable energy (RE) Consumption of fresh water Additional inventory parameters for transparency Removals and emissions associated with biogenic carbon content of the bio-based product Emission from calcination and uptake from carbonation Removals and emissions associated with biogenic carbon content of the bio-based packaging Emissions from combustion of waste from renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in produc	Intermed           Units           MJ, NCV           MJ, CO2           kg CO2-eq.           kg CO2-eq.           kg CO2-eq.           kg CO2-eq.           kg CO2-eq.           kg So2-eq.           kg So2-eq.           kg So2-eq.           kg So2-eq.           kg So2-eq.           kg So2-eq.	A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00           0.00E+00           0.00E+00           1.57E-02           A1-A3           0.00E+00           1.57E-02           A1-A3           0.00E+00           2.54E-06           6.20E-03           8.48E-06	DXT <sup>TM</sup> /D) A4 2.58E-03 0.00E+00 6.46E-02 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 1.85E-13 5.63E-06 1.85E-07	KLT™ Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           8.01E-06           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           1.18E-03           A5           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           1.31E-07           5.25E-03           7.17E-07	C1 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 0.00E+00	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00 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 0.00E+00 0.00E+00	6.13E-04 0.00E+00 4.55E-03 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 4.33E-13 2.27E-02 4.77E-08	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 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 7 Total A1-C4 2.73E-06 3.42E-02 9.47E-06	4.73E-02 0.00E+00 1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.12E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.41E-02 1.41E-02 1.31E-07
Donn® Brand Centricitee TM 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 (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) Non-renewable secondary fuel (RSF) Renewable secondary fuel (RSF) Renewab	Intermed Units MJ, NCV MJ, NCV	A1-A3           A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00           0.00E+00           0.00E+00           0.00E+00           1.57E-02           A1-A3           0.00E+00	DXT <sup>TM</sup> /D) A 2.58E-03 0.00E+00 6.46E-02 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 A 4 1.86E-13 5.63E-06	XLT™ Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           8.01E-06           0.00E+00           A5           1.91E-07           5.25E-03	C1 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	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00 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 0.00E+00 0.00E+00	6.13E-04 0.00E+00 4.55E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.12E-06 C4 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 1.01E-06	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00 0.00E+00 0.00E+00 1.69E-02 Total A1-C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Total A1-C4 2.73E-06 3.42E-02	4.73E-02 0.00E+00 1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.122E-02 D 0.00E+00 0.00E+00 1.61E-05 0.00E+00 0.00E+00 0.00E+00 1.61E-05 0.00E+00 0.00E+00 1.61E-05 0.00E+00 0.
Donn® Brand Centricitee <sup>TM</sup> 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 (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) Non-renewable secondary fuel (RSF) Renewable secondary fuel (RSF) Renewable secondary fuel (RSF) Renewable secondary fuel (NRSF) Renewable secondary fuel (RSF) Renewable and emissions associated with biogenic carbon content of the bio-based product Emission from calcination and uptake from carbonation Removals and emissions associated with biogenic carbon content of the bio-based packaging Emissions from combustion of waste from renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion from tenewable sources used in production processes Emissions from combustion from tenewable sources used in production proc	Intermed           Units           MJ, NCV           MJ, CO2           kg CO2-eq.           kg CO2-eq.           kg CO2-eq.           kg CO2-eq.           kg CO2-eq.           kg So2-eq.           kg So2-eq.           kg So2-eq.           kg So2-eq.           kg So2-eq.           kg So2-eq.	A1-A3           A1-A3           2,03E-01           0.00E+00           2.97E+00           0.00E+00           2.07E+01           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           1.57E+02           A1-A3           0.00E+00           A1-A3           2.54E-06           6.20E-03           8.48E-06           N/A           A1-A3	DXT <sup>TM</sup> /D) A 2.58E-03 0.00E+00 6.46E-02 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 0.00E+00 0.00E+00 0.00E+00 A 1.86E-13 5.52E-05 1.85E-07 N/A	XLT TM Gri A5 1.60E-02 0.00E+00 2.36E-01 0.00E+000E+0	C1           0.00E+00           0.00E+00	C2 6.13E-04 0.00E+00 1.54E-02 0.00E+00 00	0.00E+00 0.00E+000E+0	6.13E-04 0.00E+00 4.55E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.12E-06 C4 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 1.01E-06 0.00E+00 4.83E-13 2.27E-02 4.77E-08 N/A	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 0.00E+0000000000	4.73E-02 0.00E+00 1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.122E-02 D 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.41E-05 0.00E+00 1.45E-02 1.31E-07 N/A
Donn® Brand Centricitee <sup>TM</sup> 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 (RPRM) Non-renewable primary resources with energy content used as material (NRPRM) Secondary material, secondary fuel and recovered energy Secondary material, secondary fuel and recovered energy Renewable secondary fuel (RSF) Non-renewable secondary fuel (RSF) Renewable and emissions associated with biogenic carbon content of the bio-based product Emission from calcination and uptake from carbonation Removals and emissions associated with biogenic carbon content of the bio-based packaging Emissions from combustion of waste from renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Emissions from combustion of waste from non-re	Intermed Units MJ, NCV MJ, NCV	A1-A3           A1-A3           2,03E-01           0.00E+00           2.97E+00           0.00E+00           1.06E-04           0.00E+00           0.00E+00           0.00E+00           0.00E+00           1.57E-02           A1-A3           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           A1-A3           2.54E-06           6.20E-03           8.48E-06           N/A           A1-A3           0.00E+00	DXT <sup>TM</sup> /D) A4 2.58E-03 0.00E+00 6.46E-02 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 A4 1.86E-13 5.52E-06 1.85E-07 N/A 0.00E+00	KLT TM Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           0.00E+00           A5           1.91E-07           5.25E-03           7.17E-07           N/A           A5           0.00E+00	C1 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 N/A	C2 6.13E-04 0.00E+00 1.54E-02 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 C2 4.43E-14 1.34E-06 4.41E-08 N/A	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 0.00E+00 0.00E+00 0.00E+00	6.13E-04 0.00E+00 4.55E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.12E-06 C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C4 4.83E-13 2.27E-02 4.77E-08 N/A	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00 0.00E+00 1.69E-02 Total A1-C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Total A1-C4 2.73E-06 3.42E-02 9.47E-06 N/A Total A1-C4 0.00E+00	4.73E-02 0.00E+00 1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.122E-02 D 0.00E+00 0.00E+00 0.00E+00 1.61E-05 0.00E+00 1.61E-05 0.00E+00 1.45E-02 1.31E-07 NASE-05 0.00E+00 0.0
Donn <sup>®</sup> Brand Centricitee <sup>TM</sup> 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 (RPRM) Non-renewable primary resources with energy content used as material (NRPRM) Secondary material, secondary fuel and recovered energy Secondary material, secondary fuel and recovered energy Renewable secondary fuel (RSF) Non-renewable secondary fuel (RSF) Renewable secondary fuel (RSF) Renewable secondary fuel (RSF) Renewable secondary fuel (RSF) Renewable energy (RE) Consumption of fresh water Additional inventory parameters for transparency Removals and emissions associated with biogenic carbon content of the bio-based product Emission from calcination and uptake from carbonation Removals and emissions associated with biogenic carbon content of the bio-based packaging Emissions from combustion of waste from renewable sources used in production processes Emissions from combustion of waste from non-renewable sources used in production processes Indicators describing waste Hazardous waste disposed Non-hazardous waste disposed Non-hazardous waste disposed High-level radioactive waste Intermediate and low-level waste Assignments of output flows at the end-of-life Components for recycling (MR)	Intermed Units MJ, NCV MJ, NCV	A1-A3           2.03E-01           0.00E+00           2.97E+00           0.00E+00           A1-A3           1.06E-04           0.00E+00           0.00E+00           0.00E+00           0.00E+00           1.57E-02           A1-A3           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           0.00E+00           2.54E-06           6.20E-03           8.48E-06           N/A           A1-A3           0.00E+00	DXT <sup>TM</sup> /D) A4 2.58E-03 0.00E+00 6.46E-02 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 1.85E-13 5.63E-06 1.85E-07 N/A A4 0.00E+00 0	XLTTM Gri A5 1.60E-02 0.00E+00 2.36E-01 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 X5 1.91E-07 5.25E-03 7.17E-07 N/A 0.00E+00 0.00E+00 0.00E+00	C1 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 N/A C1 0.00E+00 0.00E+00 0.00E+00	C2 6.13E-04 0.00E+00 1.54E-02 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 N/A	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 0.00E+00 0.00E+00 0.00E+00 0.00E+00	6.13E-04 0.00E+00 4.55E-03 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	2.22E-01 0.00E+00 3.30E+00 0.00E+00 <b>Total A1-C4</b> 1.14E-04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 <b>Total A1-C4</b> 2.73E-06 3.42E-02 9.47E-06 N/A <b>Total A1-C4</b> 0.00E+00 0.00E+00 0.00E+00	4.73E-02 0.00E+00 -1.20E+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 1.43E-02 1.31E-07 N/A N/A
Donn® Brand Centricitee <sup>TM</sup> 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 (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) Non-renewable secondary fuel (RSF) Renewable secondary fuel (RSF) Renew	Intermed Units MJ, NCV MJ, NCV	A1-A3           A1-A3           2,03E-01           0.00E+00           2.97E+00           0.00E+00           1.06E-04           0.00E+00           0.00E+00           0.00E+00           0.00E+00           1.57E-02           A1-A3           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           A1-A3           2.54E-06           6.20E-03           8.48E-06           N/A           A1-A3           0.00E+00	DXT <sup>TM</sup> /D) A4 2.58E-03 0.00E+00 6.46E-02 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 A4 1.86E-13 5.52E-06 1.85E-07 N/A 0.00E+00	KLT TM Gri           A5           1.60E-02           0.00E+00           2.36E-01           0.00E+00           A5           0.00E+00           A5           1.91E-07           5.25E-03           7.17E-07           N/A           A5           0.00E+00	C1 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 N/A	C2 6.13E-04 0.00E+00 1.54E-02 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 C2 4.43E-14 1.34E-06 4.41E-08 N/A	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 0.00E+00 0.00E+00 0.00E+00	6.13E-04 0.00E+00 4.55E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.12E-06 C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C4 4.83E-13 2.27E-02 4.77E-08 N/A	2.22E-01 0.00E+00 3.30E+00 0.00E+00 Total A1-C4 1.14E-04 0.00E+00 0.00E+00 1.69E-02 Total A1-C4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Total A1-C4 2.73E-06 3.42E-02 9.47E-06 N/A Total A1-C4 0.00E+00	4.73E-02 0.00E+00 1.20E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.122E-02 D 0.00E+00 0.00E+00 0.00E+00 1.61E-05 0.00E+00 1.61E-05 0.00E+00 1.45E-02 1.31E-07 NASE 0.00E+00 0.00E+





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dec de many d	_	-		•		2'72' 1 00	out				
Invariant or sectorNomeSame <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>C3</td><td>C4</td><td>Total A1-C4</td><td>D</td></th<>								C3	C4	Total A1-C4	D
Non-watch prove pro	Renewable primary resources used as an energy carrier (RPRE)					-					
unon-any barry monors and a monit (MPM)NumberN	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
Secondary material, secondary hail and recovered energy         Unit.         At At A         At A         At A        <	Non-renewable primary resources used as an energy carrier (NRPRE)	MJ, NCV	3.64E+01	7.95E-01	2.88E+00	0.00E+00	1.90E-01	0.00E+00	5.63E-02	4.03E+01	-1.48E+01
secondunit <th< td=""><td>Non-renewable primary resources with energy content used as material (NRPRM)</td><td>MJ, NCV</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td></th<>	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
NameMin	Secondary material, secondary fuel and recovered energy	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D
Non-one option (section of the section of the sectin of the section of the sect	Secondary material (SM)	kg	2.65E-03	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03	0.00E+00
Intervalue of principal (P)Mu, W)Mu, W) <t< td=""><td>Renewable secondary fuel (RSF)</td><td>MJ, NCV</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td><td>0.00E+00</td></t<>	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
Consumption of the near near (1)         198/01         198/01         198/01         208/00         208/0	Non-renewable secondary fuel (NRSF)										
Units         ArX         A         A         C        C         C         C <td></td>											
memory and wate one sector of the bound		mə	1.95E-01	1.09E-04	1.47E-02	0.00E+00	2.00E-05	0.00E+00	1.39E-05	2.10E-01	-1.51E-01
minus non-advantage and quede from end-advantage and qued from end-adv	Additional inventory parameters for transparency	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D
Beam emission second with big incredies control of the location of the	Removals and emissions associated with biogenic carbon content of the bio-based product										
Image in the number of wate from reader sources used in production processes is \$1002-00         \$1000000000000000000000000000000000000											
Image is the construction of wave from non-enversion wave in production prevanes         bg CO2+0         O.66F-00         O.60F-00         O.60F-00         O.80F-00         O											
Images from combustion of wase from non-serve walls is ourse use of a production processes         bg C O-4         0.064-00         0.064-0         0.064-0         0.064-0	Emissions from combustion of waste from renewable sources used in production processes										
Indicators describing wate         Units         A1-A3         A4         A5         C1         C2         C3         C4         Teal A1-C4         D           Namachascons wate disposed         Ng         2-426-65         2-226-13         2-266-66         3-66-70         5-86-71         3-06-70         5-86-71         3-86-76         1-366-71 <t< td=""><td>Emissions from combustion of waste from non-renewable sources used in production processes</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Emissions from combustion of waste from non-renewable sources used in production processes										
bits decision         bits         274405         2240-0         2200-0         6400-0         6400-0         580-70         2340-00         1-116-07           bits how how and adjoosed         hig         7.256         5256-6         5256-6         5256-0         5266-0         5266-0         5266-0         5266-00         5266-07         1156-04         1562-00           bits how how and and ow how and and ow how and and own own and and own own and and own own and own and own own and own and own own and											
Non-hardware         Ng         7.3562         5.826.9         0.806.0         0.866.9 <th< td=""><td>Indicators describing waste</td><td></td><td></td><td></td><td>-</td><td></td><td>-</td><td></td><td></td><td></td><td></td></th<>	Indicators describing waste				-		-				
High-ben classicity wase         Ng         101E-04         228E-06         8.28.64         0.08E-00         2.48E-70         0.08E-00         0.86E-70         1.18E-10           Intermediate and low-lowel waste         N/A         N/A <td>•</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	•	-									
Image matrix         Ing         NA         NA <thna< th="">         NA        NA</thna<>											
Componentiation         kg         0.086+00	Intermediate and low-level waste	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Componentiation         kg         0.086+00											
Name         No.         O.00E+-00         O.00E+-0	Assignments of output flows at the end-of-life										
Name         Number         Number <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		-									
Besowerd energy exponted (EE)         MJ, NCV         0.00E+00         0											
Resource Usages for 1 Square Foot of Don <sup>®</sup> Brand Centricitee™ Heavy Duty DXT™/DXLT™ Grid - 2'X2' Layout           Units         A143         A4         A5         C1         C2         C3         C4         TelaA1C5         D           Reverable primary resources used as an energy carrier (RPRE)         MJ, NCV         0.00E+00		-									
Dum<         Dum         Vin V         Vi											
Use of prinary Resources used as namery carrier (NPRPS)Nu, NCAlva, NC	_	-		-							
Renewable primary resources used as an energy carrier (RPRE)         MJ, NCV         2.88E-01         2.94E-03         2.09E-02         0.00E+00         0.00E+00        <	Donn <sup>®</sup> Brand Centricite										
Renewable primary resources with energy content used as material (RPRM)         MJ, NCV         3.00E+00         0.00E+00         0.00E+00 <td>Use of Primary Resources</td> <td></td>	Use of Primary Resources										
Non-renewable primary resources used as an energy carrier (NRPRE)         MJ, NCV         3.38E+00         7.39E+02         2.48E+01         0.00E+00											
Non-energy being mary resources with energy content used as material (NRPRM)         MJ, NCV         0.00E+00         0.00E+											
Secondary material (SM)         kg         2.47E-44         0.00E+00         1.86E-05         0.00E+00         0.00E+00 <td>Non-renewable primary resources with energy content used as material (NRPRM)</td> <td></td>	Non-renewable primary resources with energy content used as material (NRPRM)										
Secondary material (SM)         kg         2.47E-44         0.00E+00         1.86E-05         0.00E+00         0.00E+00 <td></td>											
Renewable secondary fuel (RSF)         MJ, NCV         0.00E+00											-
Non-renewable secondary lue (NRSF)         MJ, NCV         0.00E+00		-									
Renewable energy (RE)         MJ, NCV         0.00E+00         0.00E+00<											
Additional inventory parameters for transparency         Units         A1-A3         A4         A5         C1         C2         C3         C4         Total A1-C4         D           Additional inventory parameters for transparency         Luits         Add 202-eq.         0.00E+00	Renewable energy (RE)		0.00E+00								0.00E+00
Removals and emissions associated with biogenic carbon content of the bio-based product         kg CO2-eq.         0.00E+00	Consumption of fresh water	m3	1.81E-02	1.01E-05	1.37E-03	0.00E+00	2.42E-06	0.00E+00	1.29E-06	1.95E-02	-1.40E-02
Removals and emissions associated with biogenic carbon content of the bio-based product         kg CO2-eq.         0.00E+00		1 Juniter	44.40		45					Tricket Of	
Emission from calcination and uptake from carbonation         kg CO2-eq.         0.00E+00						-	-		-		
Removals and emissions associated with biogenic carbon content of the bio-based packaging         kg CO2-eq.         7.32E-05         0.00E+00         7.32E-05         0.00E+00	Emission from calcination and uptake from carbonation										
Emissions from combustion of waste from nenewable sources used in production processes         kg CO2-eq.         0.00E+00	Removals and emissions associated with biogenic carbon content of the bio-based packaging		-7.32E-05	0.00E+00	7.32E-05	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	Emissions from land use change	1	5.65E-05	5.96E-06	5.24E-06	0.00E+00	1.43E-06	0.00E+00	1.16E-06	7.03E-05	-1.84E-05
Indicators describing waste         Units         A1-A3         A4         A5         C1         C2         C3         C4         Total A1-C4         D           Hazardous waste disposed         kg         2.54E-06         2.12E-13         1.91E-07         0.00E+00         5.09E-14         0.00E+00         5.56E-13         2.73E-06         -1.03E-08           Non-hazardous waste disposed         kg         6.90E-06         2.54E-06         5.50E-03         0.00E+00         5.09E-14         0.00E+00         5.26E-13         2.73E-06         -1.03E-08           Non-hazardous waste disposed         kg         6.90E-06         2.54E-06         2.12E-07         7.93E-07         0.00E+00         5.48E-08         1.05E-05         1.51E-07           Intermediate and low-level waste         kg         N/A	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
Marcardous waste disposed         kg         2.54E-6         2.12E-13         1.91E-07         0.00E+00         5.09E-14         0.00E+00         5.56E-13         2.73E-06         -1.03E-08           Non-hazardous waste disposed         kg         6.90E-03         6.43E-06         5.50E-03         0.00E+00         1.54E-06         0.00E+00         2.61E-02         3.85E-02         1.67E-02           High-level radioactive waste         kg         9.42E-06         2.12E-07         7.33E-07         0.00E+00         5.07E-08         0.00E+00         5.48E-08         1.05E-05         1.51E-07           Intermediate and low-level waste         kg         N/A	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
Marcardous waste disposed         kg         2.54E-6         2.12E-13         1.91E-07         0.00E+00         5.09E-14         0.00E+00         5.56E-13         2.73E-06         -1.03E-08           Non-hazardous waste disposed         kg         6.90E-03         6.43E-06         5.50E-03         0.00E+00         1.54E-06         0.00E+00         2.61E-02         3.85E-02         1.67E-02           High-level radioactive waste         kg         9.42E-06         2.12E-07         7.33E-07         0.00E+00         5.07E-08         0.00E+00         5.48E-08         1.05E-05         1.51E-07           Intermediate and low-level waste         kg         N/A	Indicators describing waste	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D
High-level radioactive waste       kg       9.42E-06       2.12E-07       7.93E-07       0.00E+00       5.07E-08       0.00E+00       5.48E-08       1.05E-05       1.51E-07         Intermediate and low-level waste       kg       N/A       N/A <td< td=""><td>Hazardous waste disposed</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Hazardous waste disposed										
kg         N/A	Non-hazardous waste disposed		6.90E-03	6.43E-06	5.50E-03	0.00E+00	1.54E-06	0.00E+00	2.61E-02	3.85E-02	1.67E-02
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         <	High-level radioactive waste	kg	9.42E-06	2.12E-07	7.93E-07			0.00E+00	5.48E-08	1.05E-05	1.51E-07
Components for re-use (CRU)         kg         0.00E+00	Intermediate and low-level waste	kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Components for re-use (CRU)         kg         0.00E+00	Assignments of output flows at the end-of-life	Units	A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	P
Materials for recycling (MR)         kg         0.00E+00         0.00E+0	Components for re-use (CRU)										
	Materials for recycling (MR)										
Recovered energy exported (EE)         MJ, NCV         0.00E+00	Materials for energy recovery (MER)		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





Resource Usages for to Donn® Brand Centricitee™ Intermediate Dut         Use of Primary Resources       Units       A1-A3         Renewable primary resources used as an energy carrier (RPRE)       MJ, NCV       2.32E40         Renewable primary resources with energy content used as material (RPRM)       MJ, NCV       3.41E+0         Non-renewable primary resources with energy content used as material (NRPRM)       MJ, NCV       0.00E+0         Non-renewable primary resources with energy content used as material (NRPRM)       MJ, NCV       0.00E+0         Secondary material, secondary fuel and recovered energy       Units       A1-A3         Secondary material (SM)       kg       1.22E+0         Renewable secondary fuel (RSF)       MJ, NCV       0.00E+0								
Use of Primary Resources         Units         A1-A3           Renewable primary resources used as an energy carrier (RPRE)         MJ, NCV         2.32E+0           Renewable primary resources with energy content used as material (RPRM)         MJ, NCV         0.00E+0           Non-renewable primary resources used as an energy carrier (NRPRE)         MJ, NCV         0.00E+0           Non-renewable primary resources with energy content used as material (NRPRM)         MJ, NCV         0.00E+0           Non-renewable primary resources with energy content used as material (NRPRM)         MJ, NCV         0.00E+0           Secondary material, secondary fuel and recovered energy         Units         A1-A3           Secondary material (SM)         kg         1.22E+0           Renewable secondary fuel (RSF)         MJ, NCV         0.00E+0		KLT™ Gri	id - 2'X2'	Layout				
Renewable primary resources with energy content used as material (RPRM)         MJ, NCV         0.00E+0           Non-renewable primary resources used as an energy carrier (NRPRE)         MJ, NCV         3.41E+0           Non-renewable primary resources with energy content used as material (NRPRM)         MJ, NCV         0.00E+0           Secondary material, secondary fuel and recovered energy         Units         A1-A3           Secondary material (SM)         kg         1.22E+0           Renewable secondary fuel (RSF)         MJ, NCV         0.00E+0		A5	C1	C2	C3	C4	Total A1-C4	D
Non-renewable primary resources used as an energy carrier (NRPRE)         MJ, NCV         3.41E+0           Non-renewable primary resources with energy content used as material (NRPRM)         MJ, NCV         0.00E+0           Secondary material, secondary fuel and recovered energy         Units         A1-A3           Secondary material (SM)         kg         1.22E+0           Renewable secondary fuel (RSF)         MJ, NCV         0.00E+0	3 2.95E+01	1.83E+02	0.00E+00	7.03E+00	0.00E+00	7.02E+00	2.55E+03	5.42E+02
Non-renewable primary resources with energy content used as material (NRPRM)         MJ, NCV         0.00E+0           Secondary material, secondary fuel and recovered energy         Units         A1-A3           Secondary material (SM)         kg         1.22E+0           Renewable secondary fuel (RSF)         MJ, NCV         0.00E+0	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           Secondary material (SM)         kg         1.22E+0           Renewable secondary fuel (RSF)         MJ, NCV         0.00E+0	4 7.41E+02	2.70E+03	0.00E+00	1.76E+02	0.00E+00	5.22E+01	3.78E+04	-1.37E+04
Secondary material, secondary fuel and recovered energy         Units         A1-A3           Secondary material (SM)         kg         1.22E+0           Renewable secondary fuel (RSF)         MJ, NCV         0.00E+0	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 (SM)         kg         1.22E+0           Renewable secondary fuel (RSF)         MJ, NCV         0.00E+0								
Renewable secondary fuel (RSF) MJ, NCV 0.00E+0	A4	A5	C1	C2	C3	C4	Total A1-C4	D
	0.00E+00	9.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E+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
Non-renewable secondary fuel (NRSF) MJ, NCV 0.00E+0	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+0	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 1.80E+0		1.36E+01	0.00E+00	2.41E-02	0.00E+00	1.29E-02	1.94E+02	-1.40E+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+0	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+0	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-eq8.38E-0	0.00E+00	8.38E-01	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. 5.62E-0"	5.98E-02	5.26E-02	0.00E+00	1.42E-02	0.00E+00	1.16E-02	7.00E-01	-1.84E-01
Emissions from combustion of waste from renewable sources used in production processes kg CO2-eq. 0.00E+0	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+0		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 2.91E-02	2.13E-09	2.19E-03	0.00E+00	5.07E-10	0.00E+00	5.54E-09	3.13E-02	-1.03E-04
Non-hazardous waste disposed kg 7.11E+0	6.45E-02	6.02E+01	0.00E+00	1.53E-02	0.00E+00	2.60E+02	3.92E+02	1.66E+02
High-level radioactive waste kg 9.71E-02	2.12E-03	8.21E-03	0.00E+00	5.06E-04	0.00E+00	5.47E-04	1.09E-01	1.51E-03
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+0	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+0	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+0	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+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Donn <sup>®</sup> Brand Centricitee™ Heavy Duty D Use of Primary Resources Units A1-A3	XT™/DXLT	™ Grid - <sup>A5</sup>	2'X2' Lay <sup>C1</sup>	out <sup>C2</sup>	C3	C4	Total A1-C4	D
Renewable primary resources used as an energy carrier (RPRE) MJ, NCV 2.67E+0	3 2.93E+01	2.09E+02	0.00E+00	7.03E+00	0.00E+00	7.02E+00	2.92E+03	5.42E+02
Renewable primary resources with energy content used as material (RPRM) MJ, NCV 0.00E+0		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 3.37E+0		2.67E+03	0.00E+00	1.76E+02	0.00E+00	5.22E+01	3.73E+04	-1.37E+04
Non-renewable primary resources with energy content used as material (NRPRM) MJ, NCV 0.00E+0		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	0.002100	0.002100	0.002100	0.002100	0.002100	0.002100	0.002.000	0.002100
Secondary material, secondary fuel and recovered energy Units A1-A3	A4	A5	C1	C2	C3	C4	Total A1-C4	D
Secondary material (SM) kg 2.46E+0	0.00E+00	1.85E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E+00	0.00E+00
Renewable secondary fuel (RSF) MJ, NCV 0.00E+0	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+0	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+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002400
MO, NOV 0.00E+0	2 1.01E-01	1.36E+01	0.00E+00	2.41E-02	0.00E+00	1.29E-02		0.00E+00
Consumption of fresh water m3 1.81E+0							1.94E+02	
Consumption of fresh water m3 1.81E+0	A4							0.00E+00 -1.40E+02
		A5	C1	C2	C3	C4	1.94E+02 Total A1-C4	0.00E+00
Consumption of fresh water         m3         1.81E+0           Additional inventory parameters for transparency         Units         A1-A3           Removals and emissions associated with biogenic carbon content of the bio-based product         kg CO2-eq.         0.00E+0		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Total A1-C4 0.00E+00	0.00E+00 -1.40E+02 D 0.00E+00
Consumption of fresh water         m3         1.81E+0           Additional inventory parameters for transparency         Units         A1-A3							Total A1-C4	0.00E+00 -1.40E+02 D
Consumption of fresh water         m3         1.81E+0           Additional inventory parameters for transparency         Units         A1-A3           Removals and emissions associated with biogenic carbon content of the bio-based product         kg CO2-eq.         0.00E+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Total A1-C4 0.00E+00	0.00E+00 -1.40E+02 D 0.00E+00
Consumption of fresh water     m3     1.81E+0       Additional inventory parameters for transparency     Units     A1-A3       Removals and emissions associated with biogenic carbon content of the bio-based product     kg CO2-eq.     0.00E+0       Emission from calcination and uptake from carbonation     kg CO2-eq.     0.00E+0	0 0.00E+00 I 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	Total A1-C4 0.00E+00 0.00E+00	0.00E+00 -1.40E+02 D 0.00E+00 0.00E+00
Consumption of fresh water         m3         1.81E+0           Additional inventory parameters for transparency         Units         A1-A3           Removals and emissions associated with biogenic carbon content of the bio-based product         kg C02-eq.         0.00E+0           Emission from calcination and uptake from carbonation         kg C02-eq.         0.00E+0           Removals and emissions associated with biogenic carbon content of the bio-based packaging         kg C02-eq.         -7.29E-0	0 0.00E+00 0 0.00E+00 5.94E-02	0.00E+00 0.00E+00 7.29E-01	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	Total A1-C4 0.00E+00 0.00E+00 0.00E+00	0.00E+00 -1.40E+02 D 0.00E+00 0.00E+00 0.00E+00
Consumption of fresh water         m3         1.81E+0           Additional inventory parameters for transparency         Units         A1-A3           Removals and emissions associated with biogenic carbon content of the bio-based product         kg C02-eq.         0.00E+0           Emission from calcination and uptake from carbonation         kg C02-eq.         0.00E+0           Removals and emissions associated with biogenic carbon content of the bio-based packaging         kg C02-eq.         -7.29E-0           Emissions from land use change         kg C02-eq.         5.64E-0*         -7.29E-0	0 0.00E+00 0.00E+00 5.94E-02 0 0.00E+00	0.00E+00 0.00E+00 7.29E-01 5.23E-02	0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 1.42E-02	0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 1.16E-02	Total A1-C4 0.00E+00 0.00E+00 0.00E+00 7.01E-01	0.00E+00 -1.40E+02 D 0.00E+00 0.00E+00 0.00E+00 -1.84E-01
Consumption of fresh water         m3         1.81E+0           Additional inventory parameters for transparency         Units         A1-A3           Removals and emissions associated with biogenic carbon content of the bio-based product         kg C02-eq.         0.00E+0           Emission from calcination and uptake from carbonation         kg C02-eq.         0.00E+0           Removals and emissions associated with biogenic carbon content of the bio-based packaging         kg C02-eq.         -7.29E-0           Emissions from land use change         kg C02-eq.         5.64E-0         Emissions from combustion of waste from renewable sources used in production processes         kg C02-eq.         0.00E+0           Emissions from combustion of waste from non-renewable sources used in production processes         kg C02-eq.         0.00E+0	0 0.00E+00 1 0.00E+00 5.94E-02 0 0.00E+00 0 0.00E+00	0.00E+00 0.00E+00 7.29E-01 5.23E-02 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 1.42E-02 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 1.16E-02 0.00E+00 0.00E+00	Total A1-C4 0.00E+00 0.00E+00 0.00E+00 7.01E-01 0.00E+00 0.00E+00	0.00E+00 -1.40E+02 D 0.00E+00 0.00E+00 0.00E+00 -1.84E-01 0.00E+00 0.00E+00
Consumption of fresh water       m3       1.81E+0         Additional inventory parameters for transparency       Units       A1-A3         Removals and emissions associated with biogenic carbon content of the bio-based product       kg C02-eq.       0.00E+0         Emission from calcination and uptake from carbonation       kg C02-eq.       0.00E+0         Removals and emissions associated with biogenic carbon content of the bio-based packaging       kg C02-eq.       -7.29E-0         Emissions from land use change       kg C02-eq.       5.64E-0         Emissions from combustion of waste from renewable sources used in production processes       kg C02-eq.       0.00E+0         Emissions from combustion of waste from non-renewable sources used in production processes       kg C02-eq.       0.00E+0         Indicators describing waste       Units       A1-A3	0 0.00E+00 1 0.00E+00 5.94E-02 0 0.00E+00 0 0.00E+00 A4	0.00E+00 0.00E+00 7.29E-01 5.23E-02 0.00E+00 0.00E+00 A5	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C1	0.00E+00 0.00E+00 0.00E+00 1.42E-02 0.00E+00 0.00E+00 C2	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C3	0.00E+00 0.00E+00 0.00E+00 1.16E-02 0.00E+00 0.00E+00 C4	Total A1-C4 0.00E+00 0.00E+00 0.00E+00 7.01E-01 0.00E+00 0.00E+00 Total A1-C4	0.00E+00 -1.40E+02 D 0.00E+00 0.00E+00 0.00E+00 -1.84E-01 0.00E+00 0.00E+00 D
Consumption of fresh water     m3     1.81E+0       Additional inventory parameters for transparency     Units     A1-A3       Removals and emissions associated with biogenic carbon content of the bio-based product     kg C02-eq.     0.00E+0       Emission from calcination and uptake from carbonation     kg C02-eq.     0.00E+0       Removals and emissions associated with biogenic carbon content of the bio-based packaging     kg C02-eq.     -7.29E-0       Emissions from cambustion of waste from renewable sources used in production processes     kg C02-eq.     -6.4E-0'       Emissions from combustion of waste from non-renewable sources used in production processes     kg C02-eq.     0.00E+0       Emissions from combustion of waste from non-renewable sources used in production processes     kg C02-eq.     0.00E+0       Indicators describing waste     Units     A1-A3       Hazardous waste disposed     kg     2.53E-0:	0         0.00E+00           1         0.00E+00           5.94E-02         0           0         0.00E+00           0         0.00E+00           0         0.00E+00           2         2.12E-09	0.00E+00 0.00E+00 7.29E-01 5.23E-02 0.00E+00 0.00E+00 A5 1.91E-03	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C1 0.00E+00	0.00E+00 0.00E+00 0.00E+00 1.42E-02 0.00E+00 0.00E+00 C2 5.07E-10	0.00E+00 0.00E+00 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 1.16E-02 0.00E+00 0.00E+00 C4 5.54E-09	Total A1-C4 0.00E+00 0.00E+00 0.00E+00 7.01E-01 0.00E+00 0.00E+00 Total A1-C4 2.73E-02	0.00E+00 -1.40E+02 -1.40E+02 D 0.00E+00 0.00E+00 0.00E+00 -1.84E-01 0.00E+00 0.00E+00 0.00E+00 -1.03E-04
Consumption of fresh water       m3       1.81E+0         Additional inventory parameters for transparency       Units       A1-A3         Removals and emissions associated with biogenic carbon content of the bio-based product       kg C02-eq.       0.00E+0         Emission from calcination and uptake from carbonation       kg C02-eq.       0.00E+0         Removals and emissions associated with biogenic carbon content of the bio-based packaging       kg C02-eq.       -7.29E-0         Emissions from land use change       kg C02-eq.       0.00E+0         Emissions from combustion of waste from renewable sources used in production processes       kg C02-eq.       0.00E+0         Emissions from combustion of waste from non-renewable sources used in production processes       kg C02-eq.       0.00E+0         Indicators describing waste       Units       A1-A3         Hazardous waste disposed       kg       2.53E-02         Non-hazardous waste disposed       kg       6.88E+0	0         0.00E+00           1         0.00E+00           5.94E-02         0           0         0.00E+00           0         0.00E+00           0         0.00E+00           2         2.12E-09           1         6.41E-02	0.00E+00 0.00E+00 7.29E-01 5.23E-02 0.00E+00 0.00E+00 A5 1.91E-03 5.49E+01	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C1 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 1.42E-02 0.00E+00 0.00E+00 C2 5.07E-10 1.53E-02	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 1.16E-02 0.00E+00 0.00E+00 C4 5.54E-09 2.60E+02	Total A1-C4 0.00E+00 0.00E+00 7.01E-01 0.00E+00 0.00E+00 0.00E+00 Total A1-C4 2.73E-02 3.84E+02	0.00E+00 -1.40E+02 D 0.00E+00 0.00E+00 0.00E+00 -1.84E-01 0.00E+00 0.00E+00 -1.03E-04 1.66E+02
Consumption of fresh water     m3     1.81E+0       Additional inventory parameters for transparency     Units     A1-A3       Removals and emissions associated with biogenic carbon content of the bio-based product     kg C02-eq.     0.00E+0       Emission from calcination and uptake from carbonation     kg C02-eq.     0.00E+0       Removals and emissions associated with biogenic carbon content of the bio-based packaging     kg C02-eq.     -7.29E-0       Emissions from land use change     kg C02-eq.     -7.29E-0     Emissions from combustion of waste from renewable sources used in production processes     kg C02-eq.     0.00E+0       Emissions from combustion of waste from non-renewable sources used in production processes     kg C02-eq.     0.00E+0       Indicators describing waste     Units     A1-A3       Hazardous waste disposed     kg     2.53E-0:	0         0.00E+00           1         0.00E+00           5.94E-02         0           0         0.00E+00           0         0.00E+00           0         0.00E+00           2         2.12E-09           1         6.41E-02	0.00E+00 0.00E+00 7.29E-01 5.23E-02 0.00E+00 0.00E+00 A5 1.91E-03	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C1 0.00E+00	0.00E+00 0.00E+00 0.00E+00 1.42E-02 0.00E+00 0.00E+00 C2 5.07E-10	0.00E+00 0.00E+00 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 1.16E-02 0.00E+00 0.00E+00 C4 5.54E-09	Total A1-C4 0.00E+00 0.00E+00 0.00E+00 7.01E-01 0.00E+00 0.00E+00 Total A1-C4 2.73E-02	0.00E+00 -1.40E+02 -1.40E+02 D 0.00E+00 0.00E+00 0.00E+00 -1.84E-01 0.00E+00 0.00E+00 0.00E+00 -1.03E-04
Consumption of fresh water       m3       1.81E+0         Additional inventory parameters for transparency       Units       A1-A3         Removals and emissions associated with biogenic carbon content of the bio-based product       kg C02-eq.       0.00E+0         Emission from calcination and uptake from carbonation       kg C02-eq.       0.00E+0         Removals and emissions associated with biogenic carbon content of the bio-based packaging       kg C02-eq.       -7.29E-0         Emissions from land use change       kg C02-eq.       0.00E+0         Emissions from combustion of waste from renewable sources used in production processes       kg C02-eq.       0.00E+0         Emissions from combustion of waste from non-renewable sources used in production processes       kg C02-eq.       0.00E+0         Indicators describing waste       Units       A1-A3         Hazardous waste disposed       kg       2.53E-0         Non-hazardous waste disposed       kg       6.88E+0	0         0.00E+00           1         0.00E+00           5.94E-02         0           0         0.00E+00           0         0.00E+00           0         0.00E+00           2         2.12E-09           1         6.41E-02	0.00E+00 0.00E+00 7.29E-01 5.23E-02 0.00E+00 0.00E+00 A5 1.91E-03 5.49E+01	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C1 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 1.42E-02 0.00E+00 0.00E+00 C2 5.07E-10 1.53E-02	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 1.16E-02 0.00E+00 0.00E+00 C4 5.54E-09 2.60E+02	Total A1-C4 0.00E+00 0.00E+00 0.00E+00 7.01E-01 0.00E+00 0.00E+00 Total A1-C4 2.73E-02 3.84E+02	0.00E+00 -1.40E+02 D 0.00E+00 0.00E+00 0.00E+00 -1.84E-01 0.00E+00 0.00E+00 -1.03E-04 1.66E+02
Consumption of fresh water       m3       1.81E+0         Additional inventory parameters for transparency       Units       A1-A3         Removals and emissions associated with biogenic carbon content of the bio-based product       kg C02-eq.       0.00E+0         Emission from calcination and uptake from carbonation       kg C02-eq.       0.00E+0         Removals and emissions associated with biogenic carbon content of the bio-based packaging       kg C02-eq.       -7.29E-0         Emissions from calcination of waste from renewable sources used in production processes       kg C02-eq.       0.00E+0         Emissions from combustion of waste from non-renewable sources used in production processes       kg C02-eq.       0.00E+0         Indicators describing waste       Units       A1-A3         Hazardous waste disposed       kg       2.53E-0         Non-hazardous waste disposed       kg       9.39E-0         High-level radioactive waste       kg       N/A	0         0.00E+00           1         0.00E+00           5.94E-02         0.00E+00           0         0.00E+00           0         0.00E+00           2         2.12E-09           4         6.41E-02           2         2.11E-03           N/A         N/A	0.00E+00 0.00E+00 7.29E-01 5.23E-02 0.00E+00 0.00E+00 A5 1.91E-03 5.49E+01 7.90E-03 N/A	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 N/A	0.00E+00 0.00E+00 1.42E-02 0.00E+00 0.00E+00 0.00E+00 C2 5.07E-10 1.53E-02 5.06E-04 N/A	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 N/A	0.00E+00 0.00E+00 1.16E-02 0.00E+00 0.00E+00 0.00E+00 C4 5.54E-09 2.60E+02 5.47E-04 N/A	Total A1-C4 0.00E+00 0.00E+00 0.00E+00 7.01E-01 0.00E+00 0.00E+00 7.01al A1-C4 2.73E-02 3.84E+02 1.05E-01 N/A	0.00E+00 -1.40E+02 D 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.34E-01 1.66E+02 1.51E+03 N/A
Consumption of fresh water       m3       1.81E+0         Additional inventory parameters for transparency       Units       A1-A3         Removals and emissions associated with biogenic carbon content of the bio-based product       kg C02-eq.       0.00E+0         Emission from calcination and uptake from carbonation       kg C02-eq.       0.00E+0         Removals and emissions associated with biogenic carbon content of the bio-based packaging       kg C02-eq.       -7.29E-0         Emission from calcination and uptake from renewable sources used in production processes       kg C02-eq.       0.00E+0         Emissions from combustion of waste from non-renewable sources used in production processes       kg C02-eq.       0.00E+0         Emissions from combustion of waste from non-renewable sources used in production processes       kg C02-eq.       0.00E+0         Indicators describing waste       Units       A1-A3         Hazardous waste disposed       kg       2.53E-0:         Non-hazardous waste       kg       9.39E-0:         Intermediate and low-level waste       kg       NA         Assignments of output flows at the end-of-life       Units       A1-A3	0         0.00E+00           1         0.00E+00           5.94E-02         0.00E+00           0         0.00E+00           0         0.00E+00           0         0.00E+00           0         0.00E+00           0         0.00E+00           0         0.01E+00           0         0.01E+00	0.00E+00 0.00E+00 7.29E-01 5.23E-02 0.00E+00 0.00E+00 A5 1.91E-03 5.49E+01 7.30E-03 N/A N/A	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 N/A C1	0.00E+00 0.00E+00 1.42E-02 0.00E+00 0.00E+00 0.00E+00 C2 5.07E-10 1.53E-02 5.06E-04 N/A	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 N/A N/A	0.00E+00 0.00E+00 1.16E-02 0.00E+00 0.00E+00 0.00E+00 2.60E+02 5.54E-09 5.47E-04 N/A K/A	Total A1-C4           0.00E+00           0.00E+00           0.00E+00           7.01E-01           0.00E+00           Total A1-C4           2.73E-02           3.84E+02           1.05E-01           N/A           Total A1-C4	0.00E+00 -1.40E+02 D 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.34E-01 0.00E+00 1.54E-03 1.51E-03 N/A
Consumption of fresh water       m3       1.81E+0         Additional inventory parameters for transparency       Units       A1-A3         Removals and emissions associated with biogenic carbon content of the bio-based product       kg C02-eq.       0.00E+0         Removals and emissions associated with biogenic carbon content of the bio-based packaging       kg C02-eq.       -7.29E-0         Emission from calcination and uptake from carbonation       kg C02-eq.       -7.29E-0         Emissions from combustion of waste from renewable sources used in production processes       kg C02-eq.       0.00E+0         Emissions from combustion of waste from non-renewable sources used in production processes       kg C02-eq.       0.00E+0         Indicators describing waste       Units       A1-A3         Hazardous waste disposed       kg       2.53E-0         Non-hazardous waste disposed       kg       9.39E-0         Intermediate and low-level waste       kg       N/A         Assignments of output flows at the end-of-life       Units       A1-A3         Components for re-use (CRU)       kg       0.00E+0	0         0.00E+00           1         0.00E+00           5.94E-02         0.00E+00           0         0.00E+00           0         0.00E+00           2         2.12E-09           1         6.41E-02           2         2.11E-03           N/A           44         0	0.00E+00 0.00E+00 7.29E-01 5.23E-02 0.00E+00 0.00E+00 A5 1.91E-03 5.49E+01 7.90E-03 N/A A5 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 N/A C1 0.00E+00	0.00E+00 0.00E+00 0.00E+00 1.42E-02 0.00E+00 0.00E+00 C2 5.07E-10 1.53E-02 5.06E-04 N/A C2 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 N/A C3 0.00E+00	0.00E+00 0.00E+00 1.16E-02 0.00E+00 0.00E+00 0.00E+00 2.60E+02 5.54E-09 2.60E+02 5.47E-04 N/A	Total A1-C4           0.00E+00           0.00E+00           0.00E+00           7.01E-01           0.00E+00           0.00E+00           Total A1-C4           2.73E-02           3.84E+02           1.05E-01           N/A           Total A1-C4           0.00E+00	0.00E+00 -1.40E+02 D 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 T 1.03E-04 1.66E+02 1.51E-03 N/A D 0.00E+00
Consumption of fresh water       m3       1.81E+0         Additional inventory parameters for transparency       Units       A1-A3         Removals and emissions associated with biogenic carbon content of the bio-based product       kg CO2-eq.       0.00E+0         Emission from calcination and uptake from carbonation       kg CO2-eq.       0.00E+0         Removals and emissions associated with biogenic carbon content of the bio-based packaging       kg CO2-eq.       -7.29E-0         Emissions from land use change       kg CO2-eq.       5.64E-0         Emissions from combustion of waste from renewable sources used in production processes       kg CO2-eq.       0.00E+0         Emissions from combustion of waste from non-renewable sources used in production processes       kg CO2-eq.       0.00E+0         Indicators describing waste       Units       A1-A3         Hazardous waste disposed       kg       2.53E-0         Indip-level radioactive waste       kg       9.39E-0         Intermediate and low-level waste       kg       N/A         Assignments of output flows at the end-of-life       Units       A1-A3         Components for re-use (CRU)       kg       0.00E+0         Materials for recycling (MR)       kg       0.00E+0	0         0.00E+00           1         0.00E+00           5.94E-02         0.00E+00           0         0.00E+00           0         0.00E+00           0         0.00E+00           0         0.00E+00           0         0.00E+00           0         0.41E+02           2         2.11E+03           N/A         V/A           0         0.00E+00           0         0.00E+00	0.00E+00 0.00E+00 7.29E-01 5.23E-02 0.00E+00 0.00E+00 0.00E+00 7.90E-03 N/A A5 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 N/A C1 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 1.42E-02 0.00E+00 0.00E+00 0.00E+00 5.07E-10 1.53E-02 5.06E-04 N/A C2 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 N/A C3 0.00E+00 0.00E+00	0.00E+00 0.00E+00 1.16E-02 0.00E+00 0.00E+00 0.00E+00 2.60E+02 5.47E-04 N/A N/A 0.00E+00 0.00E+00	Total A1-C4           0.00E+00           0.00E+00           0.00E+00           7.01E-01           0.00E+00           Total A1-C4           2.73E-02           3.84E+02           1.05E-01           N/A           Total A1-C4           0.00E+00	0.00E+00 -1.40E+02 D 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.56E+02 1.51E-03 N/A N/A 0.00E+00 0.00E+00 0.00E+00
Consumption of fresh water       m3       1.81E+0         Additional inventory parameters for transparency       Units       A1-A3         Removals and emissions associated with biogenic carbon content of the bio-based product       kg C02-eq.       0.00E+0         Emission from calcination and uptake from carbonation       kg C02-eq.       0.00E+0         Removals and emissions associated with biogenic carbon content of the bio-based packaging       kg C02-eq.       -7.29E-0         Emissions from cambustion of waste from renewable sources used in production processes       kg C02-eq.       0.00E+0         Emissions from combustion of waste from non-renewable sources used in production processes       kg C02-eq.       0.00E+0         Indicators describing waste       Units       A1-A3         Hazardous waste disposed       kg       2.53E-0         Non-hazardous waste disposed       kg       9.39E-0         Intermediate and low-level waste       kg       9.39E-0         Intermediate and low-level waste       kg       0.00E+0         Kasignments of output flows at the end-of-life       Units       A1-A3         Components for re-use (CRU)       kg       0.00E+0	0         0.00E+00           1         0.00E+00           5.94E-02         0.00E+00           0         0.00E+00           0         0.00E+00           0         0.00E+00           0         0.00E+00           0         0.00E+00           0         0.41E+02           2         2.11E+03           N/A         V/A           0         0.00E+00           0         0.00E+00	0.00E+00 0.00E+00 7.29E-01 5.23E-02 0.00E+00 0.00E+00 A5 1.91E-03 5.49E+01 7.90E-03 N/A A5 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 N/A C1 0.00E+00	0.00E+00 0.00E+00 1.42E-02 0.00E+00 0.00E+00 0.00E+00 C2 5.07E-10 1.53E-02 5.06E-04 N/A C2 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 N/A C3 0.00E+00	0.00E+00 0.00E+00 1.16E-02 0.00E+00 0.00E+00 0.00E+00 2.60E+02 5.54E-09 2.60E+02 5.47E-04 N/A	Total A1-C4           0.00E+00           0.00E+00           0.00E+00           7.01E-01           0.00E+00           0.00E+00           Total A1-C4           2.73E-02           3.84E+02           1.05E-01           N/A           Total A1-C4           0.00E+00	0.00E+00 -1.40E+02 D 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.53E-03 1.51E-03 N/A 0.00E+00



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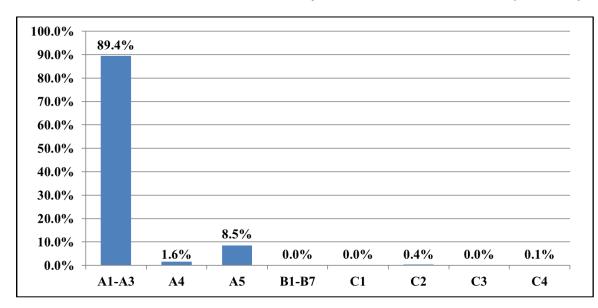
## Environmental Product Declaration USG DONN<sup>®</sup> BRAND CENTRICITEE™ DXT™/DXLT™ ACOUSTICAL SUSPENSION SYSTEM Stockton, CA, Westlake, OH



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<sup>™</sup> Donn<sup>®</sup> Brand Centricitee<sup>™</sup> Intermediate Duty DXT<sup>™</sup>/DXLT<sup>™</sup> Acoustical Suspension System were dominated by product manufacturing; specifically the production of the steel coil.



# Figure 3: Process Dominance Analysis for GWP for the Production of USG™ Donn<sup>®</sup> Brand Centricitee™ Intermediate Duty DXT™/DXLT™ Acoustical Suspension System





## 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)

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#### 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

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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

