

Environmental Product Declaration

Ceilings Plus® Colortex™ Barz® PET Baffles

Los Angeles, CA



Features and Benefits

- Acoustical baffles made from 100% recycled materials, including plant-based fibers.
- Uses quick and easy to install swivel-clips that utilizes standard grid.
- Multiple profiles and unlimited spacing allow for endless possibilities.
- Provides excellent acoustic performance with NRC up to 1.20.
- Available in 12 mm-thick material.
- Third party integration of diffusers, lights, speakers, sprinklers, wifi, etc. (independently suspended).



TRACI v2.1 Environmental Impacts for a 2"x2"x4' Colortex™ Barz® PET Baffle with a 6" (152 mm) Spacing

Functional Unit – 1 sf (0.093 m ²)	Cradle-to-Gate (A1-A3)	Cradle-to-Grave (A1-C4)
Global Warming Potential (kg CO ₂ eq.)	1.72E-01	1.91E-01
Ozone Depletion Potential (kg CFC 11 eq.)	1.33E-13	1.33E-13
Acidification Potential (kg SO ₂ eq.)	6.70E-04	7.08E-04
Eutrophication Potential (kg N eq.)	5.80E-05	6.24E-05
Photochemical Ozone Creation Potential (kg O ₃ eq.)	1.21E-02	1.30E-02
Abiotic Resource Depletion Potential Fossil Fuels (MJ, LHV)	1.74E-01	2.10E-01

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



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This declaration is an Environmental Product Declaration (EPD) in accordance with ISO 14025 and ISO 21930; 2017. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. Accuracy of Results: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. Comparability: EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.

DECLARATION NUMBER	EPD 386	
PROGRAM OPERATOR	ASTM International – 100 Barr Harbor Drive, West Conshohocken, PA USA www.astm.org	
DECLARATION HOLDER	USG Corporation - 550 W. Adams St., Chicago, IL USA	
DECLARED PRODUCT	USG Ceilings Plus® Colortex™ Barz® PET Baffles	
REFERENCE PCR	UL Environment: PCR Guidance for Building-Related Products and Services; Part B: Non-Metal Ceiling and Interior Wall Panel EPD Requirements; April 13, 2021	
DATE OF ISSUE	11/1/22	
PERIOD OF VALIDITY	5 Years	
CONTENTS OF THE DECLARATION	This EPD is complete and contains the following: <ul style="list-style-type: none"> • Product System Documentation • Life Cycle Calculation Rules • Life Cycle Assessment Results • Life Cycle Interpretation • References 	
This declaration was independently verified in accordance with ISO 14025 and ISO 21930:2017 <input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL		Tim Brooke, ASTM International
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:		Thomas P. Gloria, Industrial Ecology Consultants



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1. Product System Documentation

1.1 Product Description and Product Identification

USG Ceilings Plus® Colortex™ Barz® PET Baffles is an acoustical ceiling system produced using a nominal ½” PET/PLA polymeric fibrous felt that is made from 100% recycled materials, including plant-based fibers. Sheets of this PET/PLA felt are fabricated into “acoustical bars” of various widths (2”, 3” and 4”), heights (2”, 4”, 5”, 6”, 8” and 10” depending on the chosen width) and lengths (48”, 72” and 96”). These “acoustical bars” are designed to be suspended from a ceiling as a means of providing acoustical absorption as well as aesthetic appeal.

1.2 Designated Application

The products covered by this EPD are designed to be suspended from a suitable metal support system (not included in the EPD per PCR).

1.3 Product Technical Data

Table 1: Summary of the technical data

Name	Test Method	Colortex™ Barz® PET Baffles
Noise Reduction Coefficient (NRC)	ASTM C423	Up to 1.20
Light Reflection	ASTM E1477	N/A
Interzone Attenuation of Open Office Components (AC)	ASTM E1111 and E1110	N/A
Sound Attenuation Between Rooms Sharing A Common Ceiling Plenum (CAC)	ASTM E1414 AND E413	N/A
Surface Burning Characteristics of Building Materials	ASTM E84	Class A

1.4 Placing on the Market/Application Rules

USG Ceilings Plus® Colortex™ Barz® PET Baffles must be installed in accordance with all applicable USG installation guidelines. Approved installation procedures are provided in the USG installation guide ic5465 entitled USG Ceiling Plus® Barz® Ultra Lightweight Linear Baffles Installation Guide.

1.5 Delivery Status

USG Ceilings Plus® Colortex™ Barz® PET Baffles arrive at the jobsite in wood crates.



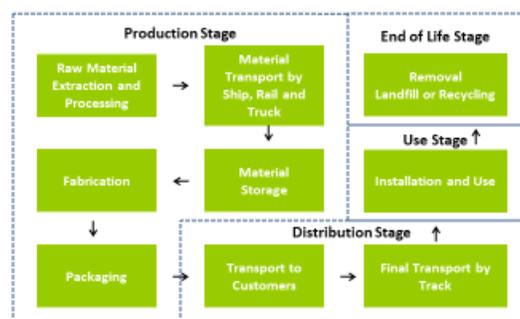
1.6 Product Composition

Table 2: Product specifications and formula

Material	Colortex™ Barz® PET Baffles
Polyethylene Terephthalate/ Polylactic Acid Felt	50-86%
Adhesive	1-3%
Support Brackets	13-48%
Total	100%

1.7 Product Manufacture

USG Ceilings Plus® Colortex™ Barz® PET Baffles is an acoustical ceiling system produced using a nominal ½” PET/PLA polymeric fibrous felt that is made from 100% recycled materials, including plant-based fibers. Sheets of this PET/PLA felt are fabricated into “acoustical baffles” of various widths (i.e., 2”, 3” and 4”), heights (i.e., 2”, 4”, 5”, 6”, 8” and 10” depending on the chosen width) and lengths (i.e., 48”, 72” and 96”). These acoustical baffles are designed to be suspended from a ceiling as a means of providing acoustical absorption as well as aesthetic appeal.



1.8 Environment and Health During Manufacturing

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

1.9 Packaging

USG Ceilings Plus® Colortex™ Barz® PET Baffles are packaged in wooden crates. USG encourages the proper recycling of these packaging materials. Both the production and disposal of these packaging materials in an appropriate landfill was modeled in this study.

1.10 Conditions of Use

To insure the longevity of the product, baffles should not be exposed to moisture, high humidity, or high temperature. Details for conditions of use may be found in the product specifications.

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1.11 Distribution

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

1.12 Product Installation

USG Ceilings Plus® Colortex™ Barz® PET Baffles must be installed in accordance with all applicable USG installation guidelines. Approved installation procedures are provided in the USG installation guide ic5465 entitled USG Ceiling Plus® Barz® Ultra Lightweight Linear Baffles Installation Guide. Installation of this product is accomplished by manual labor using mostly hand tools. No material or energy inputs are required on the jobsite.

USG Ceilings Plus® Colortex™ Barz® PET Baffles are high-end acoustical treatments delivered to the customer as finished assemblies ready for installation in a ceiling. There are typically no “end cuts” or other modifications (e.g., cut-outs for sprinkler heads, lights, etc.) that are required for typical suspended acoustical ceilings. Accordingly and based on jobsite installation experience, the percentage of installation waste was reduced from the PCR default value of 7% to 0%.

1.13 Environment and Health During Use Stage

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

1.14 Reference Service Life

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

1.15 Re-Use Phase

With proper care, Colortex™ Barz® PET Baffles may be reused at the end of a building's life.

1.16 End-of-Life Disposal

While USG encourages recycling of its products at end of life through its take back program, all product waste generated during installation and at end-of-life is assumed to be disposed of in an appropriate landfill.

1.17 Extraordinary Effects

Fire

All products covered by this EPD are certified to be Class A (flame spread of 25 or less, smoke developed of 50 or less per ASTM C84).



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2. LCA Calculation Rules

2.1 Functional Unit

The functional unit is defined as 0.092 square meters with optional reporting of one square foot (12"x12") of installed baffles. USG Ceilings Plus® Colortex™ Barz® PET Baffles consist of vertically suspended baffles (2", 3" or 4" in width) with a constant spacing between baffles. For this study, the functional unit consists of the baffle assembly with a 6" spacing between adjacent assemblies. This is believed to be typical of an installation for this product.

Note that USG Ceilings Plus® Colortex™ Barz® PET Baffles is a system of suspended vertical baffles available in various widths (2", 3" and 4"), heights (2", 4", 5", 6", 8" and 10" depending on the chosen width) and lengths (48", 72" and 96"). These baffles are spaced in the ceiling at a constant distance as shown in the photo on the first page.

USG Ceilings Plus® Design Solutions Colortex™ - Barz® Acoustic Panel Solutions												
Product	Profile Width (cm)	Profile Width (inches)	Profile Width (cm)	Profile Height (inches)	Length (cm)	Length (inches)	Assembly Footprint (sf)	Assembly Weight (lbs.)	Weight per Square Foot using a 6 Inch Spacing (kg/m2)	Weight per Square Foot using a 6 Inch Spacing (lbs/ft2)	Density of Baffle Assembly (kg/m3)	Density of Baffle Assembly (lbs/ft3)
1 Colortex Barz 2"x2"x4'	5.08	2.00	5.08	2.0	122	48.0	0.667	0.568	0.097	0.213	81.9	5.11
2 Colortex Barz 2"x2"x6'	5.08	2.00	5.08	2.0	183	72.0	1.00	0.713	0.081	0.178	68.5	4.28
3 Colortex Barz 2"x2"x8'	5.08	2.00	5.08	2.0	244	96.0	1.33	0.99	0.085	0.186	71.7	4.48
4 Colortex Barz 2"x5"x4'	5.08	2.00	12.7	5.0	122	48.0	0.667	0.912	0.155	0.34	52.6	3.28
5 Colortex Barz 2"x5"x6'	5.08	2.00	12.7	5.0	183	72.0	1.00	1.22	0.139	0.31	47.0	2.94
6 Colortex Barz 2"x5"x8'	5.08	2.00	12.7	5.0	244	96.0	1.33	1.67	0.142	0.31	48.2	3.01
7 Colortex Barz 2"x10"x4'	5.08	2.00	25.4	10.0	122	48.0	0.667	1.48	0.25	0.56	42.8	2.67
8 Colortex Barz 2"x10"x6'	5.08	2.00	25.4	10.0	183	72.0	1.00	2.07	0.235	0.52	39.9	2.49
9 Colortex Barz 2"x10"x8'	5.08	2.00	25.4	10.0	244	96.0	1.33	2.80	0.238	0.53	40.4	2.52
10 Colortex Barz 3"x2"x4'	7.62	3.00	5.08	2.0	122	48.0	1.00	0.626	0.095	0.209	60.1	3.75
11 Colortex Barz 3"x2"x6'	7.62	3.00	5.08	2.0	183	72.0	1.50	0.799	0.080	0.177	51.2	3.19
12 Colortex Barz 3"x2"x8'	7.62	3.00	5.08	2.0	244	96.0	2.00	1.11	0.084	0.185	53.2	3.32
13 Colortex Barz 3"x6"x4'	7.62	3.00	15.2	6.0	122	48.0	1.00	1.09	0.165	0.36	35.0	2.19
14 Colortex Barz 3"x6"x6'	7.62	3.00	15.2	6.0	183	72.0	1.50	1.49	0.150	0.331	31.8	1.98
15 Colortex Barz 3"x6"x8'	7.62	3.00	15.2	6.0	244	96.0	2.00	2.02	0.153	0.34	32.4	2.02
16 Colortex Barz 4"x2"x4'	10.2	4.00	5.08	2.0	122	48.0	1.33	0.684	0.093	0.205	49.3	3.08
17 Colortex Barz 4"x2"x6'	10.2	4.00	5.08	2.0	183	72.0	2.00	0.884	0.080	0.177	42.5	2.65
18 Colortex Barz 4"x2"x8'	10.2	4.00	5.08	2.0	244	96.0	2.67	1.22	0.083	0.183	44.0	2.75
19 Colortex Barz 4"x4"x4'	10.2	4.00	10.2	4.0	122	48.0	1.33	0.922	0.125	0.277	33.2	2.07
20 Colortex Barz 4"x4"x6'	10.2	4.00	10.2	4.0	183	72.0	2.00	1.23	0.112	0.247	29.6	1.85
21 Colortex Barz 4"x4"x8'	10.2	4.00	10.2	4.0	244	96.0	2.67	1.68	0.114	0.252	30.3	1.89
22 Colortex Barz 4"x8"x4'	10.2	4.00	20.3	8.0	122	48.0	1.33	1.40	0.190	0.42	25.2	1.57
23 Colortex Barz 4"x8"x6'	10.2	4.00	20.3	8.0	183	72.0	2.00	1.93	0.175	0.387	23.2	1.45
24 Colortex Barz 4"x8"x8'	10.2	4.00	20.3	8.0	244	96.0	2.67	2.60	0.177	0.390	23.5	1.46

Table 3: Functional unit

2.2 System Boundary

This EPD represents a “cradle-to-grave” LCA analysis for USG Ceilings Plus® Colortex™ Barz® PET Baffles. It covers all the production steps from raw material extraction (i.e., the cradle) to end of life disposal (grave).

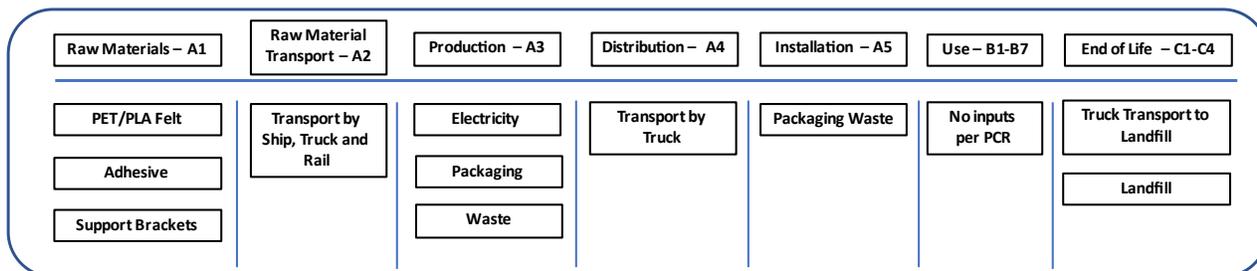


Figure 1: Specific processes covered by this EPD by life cycle stage

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 PET fiber production and PLA fiber production. In addition, the data is limited in that the primary data was collected during 2021 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

All inputs and outputs to a (unit) process were included in the calculation for which data is available. In case of insufficient input data or data gaps for a unit process, the cut-off criteria was 1% of renewable and non-renewable primary energy usage and 1% of the total mass of that unit process. The total neglected input flows did not exceed 5% of energy usage and mass.

2.5 Background Data

All background was sourced from critically reviewed GaBi databases.

2.6 Data Requirements and Data Sources

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

Temporal: In the case of production, the LCI data was collected for the 2021 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.

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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 2021 calendar year.

2.8 Allocation

No allocation was required in this study. The LCI data was collected for the 2021 production year.

2.9 Comparability

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



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3. LCA: Scenarios and additional technical information

Table 1. Transport to the building site (A4)

Name	Colortex™ Barz® PET Baffles	Unit
Fuel type	Diesel	-
Liters of fuel (including packaging)	9.89E-04 – 4.28E-03	l/100km
Vehicle type	US Truck	-
Transport distance	800	km
Capacity	0.67	
Gross density of products transported (assembly only)	24.1 – 82.4	kg/m ³

Table 2. Installation into the building (A5)

NAME	VALUE	UNIT
Ancillary materials	0	kg
Net freshwater consumption specified by water source and fate	0	m ³
Other resources	0	kg
Electricity consumption	0	kWh
Other energy carriers	0	MJ
Material loss	0	%
Mounting System (CPMS)	~ 0	kg/SF
Output substances following waste treatment on site	0	%
Dust in the air	~ 0	kg
VOC content	< 9	µg/m ³

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

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

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Table 4. Maintenance (B2) (all products)

NAME	VALUE	UNIT
Maintenance process information	As required by the PCR, a standard Life expectancy for ceiling panels based on historic practices of 75 years shall be used. No maintenance is required.	
Maintenance cycle	0	Number/ RSL
Maintenance cycle	0	Number/ ESL
Water consumption	0	m ³
Auxiliary	0	kg
Other resources	0	kg
Electricity consumption	0	kWh
Other energy carriers	0	MJ
Material loss	0	kg

Table 5. End of Life (C1-C4) (One 2"x2"x24" Barz assembly)
Weights for other assemblies (lbs./assembly) are shown in Table 3

Name		COLORTEXTM BARZ®	Unit
Collection process (specified by type)	Collected separately	0	kg
	Collected with mixed construction waste	0.0966	kg/SF
Recovery (specified by type)	Reuse	0	kg
	Recycling	0	kg
	Landfill	0.0966	kg/SF
	Incineration	0	kg
	Incineration with	0	kg
	Energy conversion	0	-
Disposal	Product or material for final deposition	0.0966	kg/SF
Removals of biogenic carbon (excluding packaging)		0	0



4. Environmental Indicators Derived from LCA

Life Cycle Assessment Results

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

Figure 2: System Boundary

USG Ceilings Plus® Colortex™ Barz® PET Baffles are a system of suspended vertical baffles available in various widths (2", 3" and 4"), heights (2", 4", 5", 6", 8" and 10" depending on the chosen width) and lengths (48", 72" and 96"). These baffles are spaced in the ceiling at a constant distance as shown in the photo on the first page. A typical spacing of 6" between baffles was chosen for this LCA study. The LCA results presented in the document can be applied to any baffle spacing by multiplying the reported results by the following factor.

2" Wide Baffle: **Environmental Impact = $\frac{\text{Report results} \times 8}{(2 + Sp)}$**

3" Wide Baffle: **Environmental Impact = $\frac{\text{Report results} \times 9}{(3 + Sp)}$**

4" Wide Baffle: **Environmental Impact = $\frac{\text{Report results} \times 10}{(4 + Sp)}$**

Where Sp = spacing distance in inches between baffles

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Environmental LCA Results for 1 Colortex™ Barz® 2"x2"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	1.72E-01	1.78E-02	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	9.44E-04	1.91E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	1.33E-13	3.44E-17	0.00E+00	0.00E+00	0.00E+00	3.45E-19	0.00E+00	4.61E-17	1.33E-13
Acidification Potential (AP)	kg SO2 eq.	6.70E-04	3.18E-05	0.00E+00	0.00E+00	0.00E+00	5.14E-07	0.00E+00	5.85E-06	7.08E-04
Eutrophication Potential (EP)	kg N eq.	5.80E-05	4.05E-06	0.00E+00	0.00E+00	0.00E+00	5.42E-08	0.00E+00	2.50E-07	6.24E-05
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	1.21E-02	7.40E-04	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	1.11E-04	1.30E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	1.74E-01	3.39E-02	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	1.58E-03	2.10E-01

Environmental LCA Results for 1 Colortex™ Barz® 2"x2"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	2.20E-01	2.44E-02	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	1.18E-03	2.45E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	1.98E-13	4.70E-17	0.00E+00	0.00E+00	0.00E+00	4.33E-19	0.00E+00	5.79E-17	1.99E-13
Acidification Potential (AP)	kg SO2 eq.	9.16E-04	4.34E-05	0.00E+00	0.00E+00	0.00E+00	6.46E-07	0.00E+00	7.34E-06	9.67E-04
Eutrophication Potential (EP)	kg N eq.	8.22E-05	5.54E-06	0.00E+00	0.00E+00	0.00E+00	6.80E-08	0.00E+00	3.14E-07	8.82E-05
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	1.68E-02	1.04E-03	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	1.39E-04	1.80E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	2.48E-01	4.63E-02	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	1.98E-03	2.97E-01

Environmental LCA Results for 1 Colortex™ Barz® 2"x2"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	3.04E-01	3.32E-02	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	1.65E-03	3.40E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	2.65E-13	6.41E-17	0.00E+00	0.00E+00	0.00E+00	6.04E-19	0.00E+00	8.07E-17	2.65E-13
Acidification Potential (AP)	kg SO2 eq.	1.25E-03	5.92E-05	0.00E+00	0.00E+00	0.00E+00	9.01E-07	0.00E+00	1.05E-05	1.32E-03
Eutrophication Potential (EP)	kg N eq.	1.10E-04	7.55E-06	0.00E+00	0.00E+00	0.00E+00	9.49E-08	0.00E+00	4.38E-07	1.18E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	2.28E-02	1.38E-03	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	1.94E-04	2.44E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	3.32E-01	6.32E-02	0.00E+00	0.00E+00	0.00E+00	5.95E-04	0.00E+00	2.76E-03	3.99E-01

Environmental LCA Results for 1 Colortex™ Barz® 2"x5"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	2.71E-01	2.38E-02	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	1.52E-03	2.97E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	1.40E-13	4.59E-17	0.00E+00	0.00E+00	0.00E+00	5.54E-19	0.00E+00	7.40E-17	1.40E-13
Acidification Potential (AP)	kg SO2 eq.	1.20E-03	4.24E-05	0.00E+00	0.00E+00	0.00E+00	8.26E-07	0.00E+00	9.39E-06	1.26E-03
Eutrophication Potential (EP)	kg N eq.	1.15E-04	5.41E-06	0.00E+00	0.00E+00	0.00E+00	8.70E-08	0.00E+00	4.02E-07	1.21E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	2.21E-02	9.88E-04	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	1.78E-04	2.32E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	3.33E-01	4.52E-02	0.00E+00	0.00E+00	0.00E+00	5.46E-04	0.00E+00	2.53E-03	3.82E-01

Environmental LCA Results for 1 Colortex™ Barz® 2"x5"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	3.71E-01	3.32E-02	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	2.03E-03	4.06E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	2.08E-13	6.40E-17	0.00E+00	0.00E+00	0.00E+00	7.43E-19	0.00E+00	9.93E-17	2.08E-13
Acidification Potential (AP)	kg SO2 eq.	1.71E-03	5.92E-05	0.00E+00	0.00E+00	0.00E+00	1.11E-06	0.00E+00	1.26E-05	1.78E-03
Eutrophication Potential (EP)	kg N eq.	1.67E-04	7.54E-06	0.00E+00	0.00E+00	0.00E+00	1.17E-07	0.00E+00	5.39E-07	1.75E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	3.15E-02	1.38E-03	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	2.39E-04	3.32E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	4.92E-01	6.31E-02	0.00E+00	0.00E+00	0.00E+00	7.32E-04	0.00E+00	3.39E-03	5.59E-01



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Environmental LCA Results for 1 Colortex™ Barz® 2"x5"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	5.02E-01	4.50E-02	0.00E+00	0.00E+00	0.00E+00	5.35E-04	0.00E+00	2.78E-03	5.50E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	2.77E-13	8.67E-17	0.00E+00	0.00E+00	0.00E+00	1.02E-18	0.00E+00	1.36E-16	2.77E-13
Acidification Potential (AP)	kg SO2 eq.	2.30E-03	8.01E-05	0.00E+00	0.00E+00	0.00E+00	1.51E-06	0.00E+00	1.72E-05	2.39E-03
Eutrophication Potential (EP)	kg N eq.	2.23E-04	1.05E-05	0.00E+00	0.00E+00	0.00E+00	1.59E-07	0.00E+00	7.37E-07	2.35E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	4.23E-02	1.87E-03	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	3.26E-04	4.46E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	6.52E-01	8.55E-02	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	4.64E-03	7.43E-01

Environmental LCA Results for 1 Colortex™ Barz® 2"x10"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	4.38E-01	3.37E-02	0.00E+00	0.00E+00	0.00E+00	4.75E-04	0.00E+00	2.47E-03	4.75E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	1.50E-13	6.50E-17	0.00E+00	0.00E+00	0.00E+00	9.02E-19	0.00E+00	1.21E-16	1.50E-13
Acidification Potential (AP)	kg SO2 eq.	2.09E-03	6.03E-05	0.00E+00	0.00E+00	0.00E+00	1.34E-06	0.00E+00	1.53E-05	2.17E-03
Eutrophication Potential (EP)	kg N eq.	2.10E-04	7.66E-06	0.00E+00	0.00E+00	0.00E+00	1.42E-07	0.00E+00	6.55E-07	2.18E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	3.86E-02	1.40E-03	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	2.90E-04	4.03E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	6.04E-01	6.41E-02	0.00E+00	0.00E+00	0.00E+00	8.88E-04	0.00E+00	4.12E-03	6.73E-01

Environmental LCA Results for 1 Colortex™ Barz® 2"x10"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	6.15E-01	4.80E-02	0.00E+00	0.00E+00	0.00E+00	6.64E-04	0.00E+00	3.45E-03	6.67E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	2.23E-13	9.24E-17	0.00E+00	0.00E+00	0.00E+00	1.26E-18	0.00E+00	1.68E-16	2.23E-13
Acidification Potential (AP)	kg SO2 eq.	3.02E-03	8.54E-05	0.00E+00	0.00E+00	0.00E+00	1.88E-06	0.00E+00	2.14E-05	3.13E-03
Eutrophication Potential (EP)	kg N eq.	3.08E-04	1.09E-05	0.00E+00	0.00E+00	0.00E+00	1.98E-07	0.00E+00	9.14E-07	3.20E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	5.81E-02	1.99E-03	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	4.05E-04	5.85E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	8.91E-01	9.11E-02	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	5.76E-03	9.89E-01

Environmental LCA Results for 1 Colortex™ Barz® 2"x10"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	8.30E-01	6.47E-02	0.00E+00	0.00E+00	0.00E+00	8.96E-04	0.00E+00	4.65E-03	9.00E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	2.98E-13	1.25E-16	0.00E+00	0.00E+00	0.00E+00	1.70E-18	0.00E+00	2.27E-16	2.98E-13
Acidification Potential (AP)	kg SO2 eq.	4.05E-03	1.15E-04	0.00E+00	0.00E+00	0.00E+00	2.54E-06	0.00E+00	2.88E-05	4.19E-03
Eutrophication Potential (EP)	kg N eq.	4.11E-04	1.47E-05	0.00E+00	0.00E+00	0.00E+00	2.67E-07	0.00E+00	1.23E-06	4.27E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	7.49E-02	2.68E-03	0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	5.46E-04	7.82E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	1.19E+00	1.23E-01	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	7.77E-03	1.32E+00

Environmental LCA Results for 1 Colortex™ Barz® 3"x2"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	2.59E-01	3.05E-02	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	1.54E-03	2.92E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	2.63E-13	5.87E-17	0.00E+00	0.00E+00	0.00E+00	5.61E-19	0.00E+00	7.50E-17	2.63E-13
Acidification Potential (AP)	kg SO2 eq.	1.05E-03	5.43E-05	0.00E+00	0.00E+00	0.00E+00	6.28E-07	0.00E+00	7.14E-06	1.11E-03
Eutrophication Potential (EP)	kg N eq.	9.19E-05	6.92E-06	0.00E+00	0.00E+00	0.00E+00	8.82E-08	0.00E+00	4.07E-07	9.93E-05
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	1.92E-02	1.26E-03	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	1.81E-04	2.06E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	2.71E-01	5.79E-02	0.00E+00	0.00E+00	0.00E+00	5.53E-04	0.00E+00	2.56E-03	3.32E-01



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Environmental LCA Results for 1 Colortex™ Barz® 3"x2"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	3.39E-01	4.25E-02	0.00E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	2.30E-03	3.84E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	3.92E-13	8.19E-17	0.00E+00	0.00E+00	0.00E+00	8.42E-19	0.00E+00	1.13E-16	3.92E-13
Acidification Potential (AP)	kg SO2 eq.	1.46E-03	7.57E-05	0.00E+00	0.00E+00	0.00E+00	9.42E-07	0.00E+00	1.07E-05	1.54E-03
Eutrophication Potential (EP)	kg N eq.	1.32E-04	9.65E-06	0.00E+00	0.00E+00	0.00E+00	1.32E-07	0.00E+00	6.11E-07	1.43E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	2.71E-02	1.76E-03	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	2.70E-04	2.92E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	3.95E-01	8.07E-02	0.00E+00	0.00E+00	0.00E+00	8.29E-04	0.00E+00	3.85E-03	4.80E-01

Environmental LCA Results for 1 Colortex™ Barz® 3"x2"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	4.67E-01	5.76E-02	0.00E+00	0.00E+00	0.00E+00	5.91E-04	0.00E+00	3.07E-03	5.28E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	5.23E-13	1.11E-16	0.00E+00	0.00E+00	0.00E+00	1.12E-18	0.00E+00	1.50E-16	5.23E-13
Acidification Potential (AP)	kg SO2 eq.	1.97E-03	1.03E-04	0.00E+00	0.00E+00	0.00E+00	1.26E-06	0.00E+00	1.43E-05	2.09E-03
Eutrophication Potential (EP)	kg N eq.	1.76E-04	1.31E-05	0.00E+00	0.00E+00	0.00E+00	1.76E-07	0.00E+00	8.15E-07	1.90E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	3.62E-02	2.39E-03	0.00E+00	0.00E+00	0.00E+00	3.82E-05	0.00E+00	3.61E-04	3.90E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	5.27E-01	1.10E-01	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	5.13E-03	6.43E-01

Environmental LCA Results for 1 Colortex™ Barz® 3"x6"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	4.45E-01	4.13E-02	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	2.42E-03	4.89E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	2.74E-13	7.96E-17	0.00E+00	0.00E+00	0.00E+00	8.85E-19	0.00E+00	1.18E-16	2.74E-13
Acidification Potential (AP)	kg SO2 eq.	2.02E-03	7.35E-05	0.00E+00	0.00E+00	0.00E+00	9.91E-07	0.00E+00	1.13E-05	2.10E-03
Eutrophication Potential (EP)	kg N eq.	1.96E-04	9.38E-06	0.00E+00	0.00E+00	0.00E+00	1.39E-07	0.00E+00	6.43E-07	2.06E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	3.72E-02	1.71E-03	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	2.84E-04	3.92E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	5.66E-01	7.84E-02	0.00E+00	0.00E+00	0.00E+00	8.72E-04	0.00E+00	4.05E-03	6.50E-01

Environmental LCA Results for 1 Colortex™ Barz® 3"x6"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	6.06E-01	5.84E-02	0.00E+00	0.00E+00	0.00E+00	6.35E-04	0.00E+00	3.30E-03	6.69E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	4.08E-13	1.13E-16	0.00E+00	0.00E+00	0.00E+00	1.21E-18	0.00E+00	1.61E-16	4.09E-13
Acidification Potential (AP)	kg SO2 eq.	2.88E-03	1.04E-04	0.00E+00	0.00E+00	0.00E+00	1.35E-06	0.00E+00	1.53E-05	3.00E-03
Eutrophication Potential (EP)	kg N eq.	2.84E-04	1.33E-05	0.00E+00	0.00E+00	0.00E+00	1.89E-07	0.00E+00	8.75E-07	2.99E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	5.34E-02	2.42E-03	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	3.87E-04	5.62E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	8.28E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	5.51E-03	9.46E-01

Environmental LCA Results for 1 Colortex™ Barz® 3"x6"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	8.20E-01	7.87E-02	0.00E+00	0.00E+00	0.00E+00	8.62E-04	0.00E+00	4.48E-03	9.04E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	5.45E-13	1.52E-16	0.00E+00	0.00E+00	0.00E+00	1.64E-18	0.00E+00	2.19E-16	5.45E-13
Acidification Potential (AP)	kg SO2 eq.	3.86E-03	1.40E-04	0.00E+00	0.00E+00	0.00E+00	1.83E-06	0.00E+00	2.08E-05	4.02E-03
Eutrophication Potential (EP)	kg N eq.	3.78E-04	1.79E-05	0.00E+00	0.00E+00	0.00E+00	2.57E-07	0.00E+00	1.19E-06	3.97E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	7.13E-02	3.26E-03	0.00E+00	0.00E+00	0.00E+00	5.57E-05	0.00E+00	5.26E-04	7.52E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	1.10E+00	1.50E-01	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	7.47E-03	1.26E+00



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Environmental LCA Results for 1 Colortex™ Barz® 4"x2"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	3.48E-01	4.46E-02	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	1.82E-03	3.95E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	4.17E-13	8.59E-17	0.00E+00	0.00E+00	0.00E+00	6.64E-19	0.00E+00	8.88E-17	4.17E-13
Acidification Potential (AP)	kg SO2 eq.	1.45E-03	7.94E-05	0.00E+00	0.00E+00	0.00E+00	6.19E-07	0.00E+00	7.04E-06	1.54E-03
Eutrophication Potential (EP)	kg N eq.	1.28E-04	1.01E-05	0.00E+00	0.00E+00	0.00E+00	1.04E-07	0.00E+00	4.82E-07	1.38E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	2.66E-02	1.85E-03	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	2.13E-04	2.87E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	3.76E-01	8.47E-02	0.00E+00	0.00E+00	0.00E+00	6.55E-04	0.00E+00	3.04E-03	4.65E-01

Environmental LCA Results for 1 Colortex™ Barz® 4"x2"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	4.61E-01	6.29E-02	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	2.35E-03	5.27E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	6.23E-13	1.21E-16	0.00E+00	0.00E+00	0.00E+00	8.59E-19	0.00E+00	1.15E-16	6.23E-13
Acidification Potential (AP)	kg SO2 eq.	2.03E-03	1.12E-04	0.00E+00	0.00E+00	0.00E+00	8.01E-07	0.00E+00	9.11E-06	2.15E-03
Eutrophication Potential (EP)	kg N eq.	1.84E-04	1.43E-05	0.00E+00	0.00E+00	0.00E+00	1.35E-07	0.00E+00	6.24E-07	1.99E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	3.75E-02	2.61E-03	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	2.76E-04	4.04E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	5.49E-01	1.20E-01	0.00E+00	0.00E+00	0.00E+00	8.47E-04	0.00E+00	3.93E-03	6.73E-01

Environmental LCA Results for 1 Colortex™ Barz® 4"x2"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	6.33E-01	8.51E-02	0.00E+00	0.00E+00	0.00E+00	6.25E-04	0.00E+00	3.25E-03	7.22E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	8.31E-13	1.64E-16	0.00E+00	0.00E+00	0.00E+00	1.19E-18	0.00E+00	1.59E-16	8.32E-13
Acidification Potential (AP)	kg SO2 eq.	2.74E-03	1.52E-04	0.00E+00	0.00E+00	0.00E+00	1.11E-06	0.00E+00	1.26E-05	2.90E-03
Eutrophication Potential (EP)	kg N eq.	2.46E-04	1.93E-05	0.00E+00	0.00E+00	0.00E+00	1.86E-07	0.00E+00	8.62E-07	2.66E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	5.05E-02	3.53E-03	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	3.81E-04	5.45E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	7.33E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	5.42E-03	9.06E-01

Environmental LCA Results for 1 Colortex™ Barz® 4"x4"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	4.60E-01	5.12E-02	0.00E+00	0.00E+00	0.00E+00	4.72E-04	0.00E+00	2.45E-03	5.14E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	4.24E-13	9.87E-17	0.00E+00	0.00E+00	0.00E+00	8.96E-19	0.00E+00	1.20E-16	4.24E-13
Acidification Potential (AP)	kg SO2 eq.	2.04E-03	9.12E-05	0.00E+00	0.00E+00	0.00E+00	8.35E-07	0.00E+00	9.50E-06	2.14E-03
Eutrophication Potential (EP)	kg N eq.	1.92E-04	1.16E-05	0.00E+00	0.00E+00	0.00E+00	1.41E-07	0.00E+00	6.51E-07	2.05E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	3.76E-02	2.12E-03	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	2.88E-04	4.00E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	5.58E-01	9.73E-02	0.00E+00	0.00E+00	0.00E+00	8.83E-04	0.00E+00	4.09E-03	6.60E-01

Environmental LCA Results for 1 Colortex™ Barz® 4"x4"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	6.24E-01	7.26E-02	0.00E+00	0.00E+00	0.00E+00	6.32E-04	0.00E+00	3.28E-03	7.01E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	6.33E-13	1.40E-16	0.00E+00	0.00E+00	0.00E+00	1.20E-18	0.00E+00	1.60E-16	6.33E-13
Acidification Potential (AP)	kg SO2 eq.	2.89E-03	1.29E-04	0.00E+00	0.00E+00	0.00E+00	1.12E-06	0.00E+00	1.27E-05	3.04E-03
Eutrophication Potential (EP)	kg N eq.	2.77E-04	1.65E-05	0.00E+00	0.00E+00	0.00E+00	1.88E-07	0.00E+00	8.70E-07	2.95E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	5.36E-02	3.01E-03	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	3.85E-04	5.70E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	8.14E-01	1.38E-01	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	5.48E-03	9.59E-01



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Environmental LCA Results for 1 Colortex™ Barz® 4"x4"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	8.48E-01	9.79E-02	0.00E+00	0.00E+00	0.00E+00	8.61E-04	0.00E+00	4.47E-03	9.51E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	8.45E-13	1.89E-16	0.00E+00	0.00E+00	0.00E+00	1.63E-18	0.00E+00	2.19E-16	8.45E-13
Acidification Potential (AP)	kg SO2 eq.	3.88E-03	1.74E-04	0.00E+00	0.00E+00	0.00E+00	1.52E-06	0.00E+00	1.73E-05	4.07E-03
Eutrophication Potential (EP)	kg N eq.	3.70E-04	2.22E-05	0.00E+00	0.00E+00	0.00E+00	2.57E-07	0.00E+00	1.19E-06	3.93E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	7.18E-02	4.06E-03	0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	5.25E-04	7.65E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	1.08E+00	1.86E-01	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	7.47E-03	1.28E+00

Environmental LCA Results for 1 Colortex™ Barz® 4"x8"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	6.80E-01	6.44E-02	0.00E+00	0.00E+00	0.00E+00	7.16E-04	0.00E+00	3.72E-03	7.49E-01
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	4.37E-13	1.24E-16	0.00E+00	0.00E+00	0.00E+00	1.36E-18	0.00E+00	1.82E-16	4.38E-13
Acidification Potential (AP)	kg SO2 eq.	3.22E-03	1.15E-04	0.00E+00	0.00E+00	0.00E+00	1.27E-06	0.00E+00	1.44E-05	3.35E-03
Eutrophication Potential (EP)	kg N eq.	3.18E-04	1.46E-05	0.00E+00	0.00E+00	0.00E+00	2.14E-07	0.00E+00	9.87E-07	3.34E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	5.96E-02	2.67E-03	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	4.37E-04	6.27E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	9.15E-01	1.22E-01	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	6.21E-03	1.05E+00

Environmental LCA Results for 1 Colortex™ Barz® 4"x8"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	9.48E-01	9.20E-02	0.00E+00	0.00E+00	0.00E+00	9.89E-04	0.00E+00	5.14E-03	1.05E+00
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	6.53E-13	1.77E-16	0.00E+00	0.00E+00	0.00E+00	1.88E-18	0.00E+00	2.51E-16	6.54E-13
Acidification Potential (AP)	kg SO2 eq.	4.62E-03	1.68E-04	0.00E+00	0.00E+00	0.00E+00	1.75E-06	0.00E+00	1.99E-05	4.81E-03
Eutrophication Potential (EP)	kg N eq.	4.61E-04	2.09E-05	0.00E+00	0.00E+00	0.00E+00	2.95E-07	0.00E+00	1.37E-06	4.84E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	8.59E-02	3.82E-03	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	6.03E-04	9.03E-02
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	1.34E+00	1.75E-01	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	8.58E-03	1.52E+00

Environmental LCA Results for 1 Colortex™ Barz® 4"x8"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
		Stage								
Impact Assessment Method: TRACI 2.1		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Environmental Impact Category	Units	Impact								
Global Warming Air, excl. biogenic carbon (GWP)	kg CO2 eq.	1.28E+00	1.23E-01	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	6.92E-03	1.41E+00
Ozone Depletion Potential (ODP)	kg CFC 11 eq.	8.71E-13	2.38E-16	0.00E+00	0.00E+00	0.00E+00	2.53E-18	0.00E+00	3.38E-16	8.72E-13
Acidification Potential (AP)	kg SO2 eq.	6.16E-03	2.20E-04	0.00E+00	0.00E+00	0.00E+00	2.36E-06	0.00E+00	2.68E-05	6.41E-03
Eutrophication Potential (EP)	kg N eq.	6.13E-04	2.80E-05	0.00E+00	0.00E+00	0.00E+00	3.97E-07	0.00E+00	1.84E-06	6.43E-04
Photochemical Ozone Creation Potential (POCP)	kg O3 eq.	1.14E-01	5.12E-03	0.00E+00	0.00E+00	0.00E+00	8.61E-05	0.00E+00	8.13E-04	1.20E-01
Abiotic Depletion Potential (ADP) - fossil fuels	MJ surplus energy	1.78E+00	2.35E-01	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	1.16E-02	2.03E+00



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Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 2"x2"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	4.08E-01	9.92E-03	0.00E+00	0.00E+00	0.00E+00	9.98E-05	0.00E+00	1.90E-03	4.20E-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	2.06E+00	2.56E-01	0.00E+00	0.00E+00	0.00E+00	2.57E-03	0.00E+00	1.26E-02	2.33E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	3.20E-02	0.00E+00	3.20E-02						
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	6.31E-04	3.56E-05	0.00E+00	0.00E+00	0.00E+00	3.59E-07	0.00E+00	3.19E-06	6.70E-04
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-6.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-03	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.	-1.83E-01	0.00E+00	1.83E-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.	5.23E-05	1.27E-05	0.00E+00	0.00E+00	0.00E+00	1.28E-07	0.00E+00	1.77E-06	6.69E-05
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	7.63E-11	1.06E-12	0.00E+00	0.00E+00	0.00E+00	1.07E-14	0.00E+00	6.48E-13	7.80E-11
Non-hazardous waste disposed	kg	7.02E-03	2.20E-05	0.00E+00	0.00E+00	0.00E+00	2.21E-07	0.00E+00	6.45E-02	7.15E-02
High-level radioactive waste	kg	5.31E-05	7.10E-07	0.00E+00	0.00E+00	0.00E+00	7.12E-09	0.00E+00	1.38E-07	5.39E-05
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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

Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 2"x2"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	5.56E-01	1.35E-02	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	2.38E-03	5.72E-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	2.72E+00	3.50E-01	0.00E+00	0.00E+00	0.00E+00	3.22E-03	0.00E+00	1.58E-02	3.09E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	4.77E-02	0.00E+00	4.77E-02						
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	8.63E-04	4.87E-05	0.00E+00	0.00E+00	0.00E+00	4.50E-07	0.00E+00	4.01E-06	9.16E-04
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-9.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-03	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.	-2.74E-01	0.00E+00	2.74E-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.	6.76E-05	1.73E-05	0.00E+00	0.00E+00	0.00E+00	1.61E-07	0.00E+00	2.23E-06	8.73E-05
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	1.10E-10	1.45E-12	0.00E+00	0.00E+00	0.00E+00	1.34E-14	0.00E+00	8.13E-13	1.13E-10
Non-hazardous waste disposed	kg	1.00E-02	3.00E-05	0.00E+00	0.00E+00	0.00E+00	2.77E-07	0.00E+00	8.09E-02	9.10E-02
High-level radioactive waste	kg	6.69E-05	9.69E-07	0.00E+00	0.00E+00	0.00E+00	8.93E-09	0.00E+00	1.73E-07	6.81E-05
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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



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Ceilings Plus® Colortex™ Barz® PET Baffles

Los Angeles, CA



Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 2"x2"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	7.55E-01	1.85E-02	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	3.32E-03	7.77E-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	3.73E+00	4.77E-01	0.00E+00	0.00E+00	0.00E+00	4.50E-03	0.00E+00	2.21E-02	4.24E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	6.35E-02	0.00E+00	6.35E-02						
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	1.17E-03	6.64E-05	0.00E+00	0.00E+00	0.00E+00	6.28E-07	0.00E+00	5.59E-06	1.25E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-1.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-3.65E-01	0.00E+00	3.65E-01	0.00E+00	3.65E-01	0.00E+00	0.00E+00	0.00E+00	3.65E-01
Emissions from land use change	kg CO2-eq.	9.32E-05	2.37E-05	0.00E+00	0.00E+00	0.00E+00	2.24E-07	0.00E+00	3.11E-06	1.20E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	1.47E-10	1.98E-12	0.00E+00	0.00E+00	0.00E+00	1.87E-14	0.00E+00	1.13E-12	1.51E-10
Non-hazardous waste disposed	kg	1.35E-02	4.09E-05	0.00E+00	0.00E+00	0.00E+00	3.86E-07	0.00E+00	1.13E-01	1.26E-01
High-level radioactive waste	kg	9.32E-05	1.32E-06	0.00E+00	0.00E+00	0.00E+00	1.25E-08	0.00E+00	2.42E-07	9.48E-05
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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

Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 2"x5"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	7.54E-01	1.32E-02	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	3.04E-03	7.71E-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	3.39E+00	3.42E-01	0.00E+00	0.00E+00	0.00E+00	4.12E-03	0.00E+00	2.02E-02	3.76E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	7.09E-02	0.00E+00	7.09E-02						
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	1.15E-03	4.75E-05	0.00E+00	0.00E+00	0.00E+00	5.76E-07	0.00E+00	5.12E-06	1.20E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-1.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Removals and emissions associated with biogenic carbon content of the bio-based packaging	kg CO2-eq.	-1.83E-01	0.00E+00	1.83E-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.	8.73E-05	1.69E-05	0.00E+00	0.00E+00	0.00E+00	2.05E-07	0.00E+00	2.85E-06	1.07E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	1.36E-10	1.42E-12	0.00E+00	0.00E+00	0.00E+00	1.71E-14	0.00E+00	1.04E-12	1.38E-10
Non-hazardous waste disposed	kg	1.43E-02	2.93E-05	0.00E+00	0.00E+00	0.00E+00	3.54E-07	0.00E+00	1.03E-01	1.18E-01
High-level radioactive waste	kg	8.32E-05	9.47E-07	0.00E+00	0.00E+00	0.00E+00	1.14E-08	0.00E+00	2.22E-07	8.44E-05
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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



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Ceilings Plus® Colortex™ Barz® PET Baffles

Los Angeles, CA



Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 2"x5"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	1.07E+00	1.85E-02	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	4.08E-03	1.09E+00
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	4.71E+00	4.77E-01	0.00E+00	0.00E+00	0.00E+00	5.53E-03	0.00E+00	2.72E-02	5.22E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	1.06E-01	0.00E+00	1.06E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	1.63E-03	6.63E-05	0.00E+00	0.00E+00	0.00E+00	7.73E-07	0.00E+00	6.88E-06	1.70E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-2.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-2.74E-01	0.00E+00	0.00E+00	2.74E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from land use change	kg CO2-eq.	1.20E-04	2.36E-05	0.00E+00	0.00E+00	0.00E+00	2.75E-07	0.00E+00	3.82E-06	1.47E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	1.99E-10	1.98E-12	0.00E+00	0.00E+00	0.00E+00	2.30E-14	0.00E+00	1.40E-12	2.02E-10
Non-hazardous waste disposed	kg	2.08E-02	4.09E-05	0.00E+00	0.00E+00	0.00E+00	4.75E-07	0.00E+00	1.39E-01	1.60E-01
High-level radioactive waste	kg	1.12E-04	1.32E-06	0.00E+00	0.00E+00	0.00E+00	1.53E-08	0.00E+00	2.97E-07	1.13E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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

Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 2"x5"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	1.44E+00	2.50E-02	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	5.58E-03	1.47E+00
Renewable primary resources with energy content used as material (RPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-renewable primary resources used as an energy carrier (NRPRE)	MJ, NCV	6.37E+00	6.46E-01	0.00E+00	0.00E+00	0.00E+00	7.56E-03	0.00E+00	3.71E-02	7.06E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	1.40E-01	0.00E+00	1.40E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	2.19E-03	8.98E-05	0.00E+00	0.00E+00	0.00E+00	1.06E-06	0.00E+00	9.40E-06	2.29E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-2.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-3.65E-01	0.00E+00	3.65E-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.	1.62E-04	3.20E-05	0.00E+00	0.00E+00	0.00E+00	3.76E-07	0.00E+00	5.22E-06	2.00E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	2.65E-10	2.68E-12	0.00E+00	0.00E+00	0.00E+00	3.14E-14	0.00E+00	1.91E-12	2.70E-10
Non-hazardous waste disposed	kg	2.78E-02	5.53E-05	0.00E+00	0.00E+00	0.00E+00	6.49E-07	0.00E+00	1.90E-01	2.18E-01
High-level radioactive waste	kg	1.53E-04	1.79E-06	0.00E+00	0.00E+00	0.00E+00	2.09E-08	0.00E+00	4.06E-07	1.55E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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



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Ceilings Plus® Colortex™ Barz® PET Baffles

Los Angeles, CA



Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 2"x10"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	1.33E+00	1.88E-02	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	4.96E-03	1.35E+00
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	5.62E+00	4.84E-01	0.00E+00	0.00E+00	0.00E+00	6.71E-03	0.00E+00	3.29E-02	6.14E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	1.36E-01	0.00E+00	1.36E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	2.00E-03	6.74E-05	0.00E+00	0.00E+00	0.00E+00	9.38E-07	0.00E+00	8.34E-06	2.08E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-2.62E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Removals and emissions associated with biogenic carbon content of the bio-based packaging	kg CO2-eq.	-1.83E-01	0.00E+00	1.83E-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.	1.46E-04	2.40E-05	0.00E+00	0.00E+00	0.00E+00	3.34E-07	0.00E+00	4.64E-06	1.75E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	2.35E-10	2.01E-12	0.00E+00	0.00E+00	0.00E+00	2.79E-14	0.00E+00	1.69E-12	2.39E-10
Non-hazardous waste disposed	kg	2.64E-02	4.15E-05	0.00E+00	0.00E+00	0.00E+00	5.77E-07	0.00E+00	1.69E-01	1.95E-01
High-level radioactive waste	kg	1.33E-04	1.34E-06	0.00E+00	0.00E+00	0.00E+00	1.86E-08	0.00E+00	3.61E-07	1.35E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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

Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 2"x10"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	1.93E+00	2.67E-02	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	6.92E-03	1.96E+00
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	8.02E+00	6.88E-01	0.00E+00	0.00E+00	0.00E+00	9.38E-03	0.00E+00	4.60E-02	8.76E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	2.02E-01	0.00E+00	2.02E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	2.90E-03	9.58E-05	0.00E+00	0.00E+00	0.00E+00	1.31E-06	0.00E+00	1.17E-05	3.01E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-3.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-2.74E-01	0.00E+00	2.74E-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.	2.07E-04	3.41E-05	0.00E+00	0.00E+00	0.00E+00	4.67E-07	0.00E+00	6.48E-06	2.48E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	3.47E-10	2.86E-12	0.00E+00	0.00E+00	0.00E+00	3.90E-14	0.00E+00	2.37E-12	3.52E-10
Non-hazardous waste disposed	kg	3.88E-02	5.90E-05	0.00E+00	0.00E+00	0.00E+00	8.06E-07	0.00E+00	2.35E-01	2.74E-01
High-level radioactive waste	kg	1.86E-04	1.91E-06	0.00E+00	0.00E+00	0.00E+00	2.60E-08	0.00E+00	5.04E-07	1.89E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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



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Ceilings Plus® Colortex™ Barz® PET Baffles

Los Angeles, CA



Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 2"x10"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	2.58E+00	3.60E-02	0.00E+00	0.00E+00	0.00E+00	4.92E-04	0.00E+00	9.35E-03	2.63E+00
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	1.08E+01	9.29E-01	0.00E+00	0.00E+00	0.00E+00	1.27E-02	0.00E+00	6.21E-02	1.18E+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										
Secondary Material (SM)	kg	2.68E-01	0.00E+00	2.68E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-renewable Secondary Fuel (NRSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Renewable Energy (RE)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Consumption of Fresh Water	m3	3.88E-03	1.29E-04	0.00E+00	0.00E+00	0.00E+00	1.77E-06	0.00E+00	1.57E-05	4.03E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-5.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-3.65E-01	0.00E+00	3.65E-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.	2.78E-04	4.60E-05	0.00E+00	0.00E+00	0.00E+00	6.30E-07	0.00E+00	8.75E-06	3.33E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	4.62E-10	3.86E-12	0.00E+00	0.00E+00	0.00E+00	5.26E-14	0.00E+00	3.19E-12	4.69E-10
Non-hazardous waste disposed	kg	5.17E-02	7.96E-05	0.00E+00	0.00E+00	0.00E+00	1.09E-06	0.00E+00	3.18E-01	3.70E-01
High-level radioactive waste	kg	2.52E-04	2.57E-06	0.00E+00	0.00E+00	0.00E+00	3.51E-08	0.00E+00	6.81E-07	2.55E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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

Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 3"x2"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	6.32E-01	1.69E-02	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	3.08E-03	6.52E-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	3.14E+00	4.37E-01	0.00E+00	0.00E+00	0.00E+00	4.18E-03	0.00E+00	2.05E-02	3.60E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	5.14E-02	0.00E+00	5.14E-02						
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	9.68E-04	6.09E-05	0.00E+00	0.00E+00	0.00E+00	5.84E-07	0.00E+00	5.19E-06	1.03E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-9.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-03	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.	-3.66E-01	0.00E+00	3.66E-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.	7.91E-05	2.17E-05	0.00E+00	0.00E+00	0.00E+00	2.08E-07	0.00E+00	2.89E-06	1.04E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	1.25E-10	1.82E-12	0.00E+00	0.00E+00	0.00E+00	1.74E-14	0.00E+00	1.05E-12	1.28E-10
Non-hazardous waste disposed	kg	1.11E-02	3.75E-05	0.00E+00	0.00E+00	0.00E+00	3.59E-07	0.00E+00	1.05E-01	1.16E-01
High-level radioactive waste	kg	7.87E-05	1.21E-06	0.00E+00	0.00E+00	0.00E+00	1.16E-08	0.00E+00	2.25E-07	8.02E-05
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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



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Ceilings Plus® Colortex™ Barz® PET Baffles

Los Angeles, CA



Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 3"x2"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	8.75E-01	2.36E-02	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	4.63E-03	9.04E-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	4.22E+00	6.10E-01	0.00E+00	0.00E+00	0.00E+00	6.27E-03	0.00E+00	3.08E-02	4.87E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	7.66E-02	0.00E+00	7.66E-02						
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	1.34E-03	8.48E-05	0.00E+00	0.00E+00	0.00E+00	8.76E-07	0.00E+00	7.79E-06	1.43E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-1.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-5.48E-01	0.00E+00	5.48E-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.	1.05E-04	3.02E-05	0.00E+00	0.00E+00	0.00E+00	3.12E-07	0.00E+00	4.33E-06	1.39E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	1.83E-10	2.53E-12	0.00E+00	0.00E+00	0.00E+00	2.60E-14	0.00E+00	1.58E-12	1.88E-10
Non-hazardous waste disposed	kg	1.59E-02	5.23E-05	0.00E+00	0.00E+00	0.00E+00	5.38E-07	0.00E+00	1.57E-01	1.73E-01
High-level radioactive waste	kg	1.01E-04	1.69E-06	0.00E+00	0.00E+00	0.00E+00	1.74E-08	0.00E+00	3.37E-07	1.03E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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

Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 3"x2"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	1.18E+00	3.20E-02	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	6.17E-03	1.22E+00
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	5.77E+00	8.27E-01	0.00E+00	0.00E+00	0.00E+00	8.35E-03	0.00E+00	4.10E-02	6.64E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	1.02E-01	0.00E+00	1.02E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	1.81E-03	1.15E-04	0.00E+00	0.00E+00	0.00E+00	1.17E-06	0.00E+00	1.04E-05	1.94E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-1.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-7.30E-01	0.00E+00	7.30E-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.	1.43E-04	4.10E-05	0.00E+00	0.00E+00	0.00E+00	4.16E-07	0.00E+00	5.77E-06	1.90E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	2.43E-10	3.44E-12	0.00E+00	0.00E+00	0.00E+00	3.47E-14	0.00E+00	2.11E-12	2.49E-10
Non-hazardous waste disposed	kg	2.14E-02	7.09E-05	0.00E+00	0.00E+00	0.00E+00	7.18E-07	0.00E+00	2.10E-01	2.31E-01
High-level radioactive waste	kg	1.40E-04	2.29E-06	0.00E+00	0.00E+00	0.00E+00	2.32E-08	0.00E+00	4.49E-07	1.43E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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



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Ceilings Plus® Colortex™ Barz® PET Baffles

Los Angeles, CA



Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 3"x6"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
Use of Primary Resources	Units	Stage								Total A1-C4
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	1.26E+00	2.29E-02	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	4.87E-03	1.29E+00
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	5.57E+00	5.93E-01	0.00E+00	0.00E+00	0.00E+00	6.59E-03	0.00E+00	3.24E-02	6.20E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	1.22E-01	0.00E+00	1.22E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	1.91E-03	8.24E-05	0.00E+00	0.00E+00	0.00E+00	9.21E-07	0.00E+00	8.19E-06	2.00E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-2.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-3.65E-01	0.00E+00	3.65E-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.	1.43E-04	2.94E-05	0.00E+00	0.00E+00	0.00E+00	3.28E-07	0.00E+00	4.55E-06	1.77E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	2.34E-10	2.46E-12	0.00E+00	0.00E+00	0.00E+00	2.74E-14	0.00E+00	1.66E-12	2.38E-10
Non-hazardous waste disposed	kg	2.43E-02	5.08E-05	0.00E+00	0.00E+00	0.00E+00	5.66E-07	0.00E+00	1.65E-01	1.90E-01
High-level radioactive waste	kg	1.34E-04	1.64E-06	0.00E+00	0.00E+00	0.00E+00	1.83E-08	0.00E+00	3.54E-07	1.36E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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

Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 3"x6"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
Use of Primary Resources	Units	Stage								Total A1-C4
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	1.80E+00	3.25E-02	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	6.62E-03	1.84E+00
Renewable primary resources with energy content used as material (RPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-renewable primary resources used as an energy carrier (NRPRE)	MJ, NCV	7.80E+00	8.38E-01	0.00E+00	0.00E+00	0.00E+00	8.97E-03	0.00E+00	4.40E-02	8.69E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	1.81E-01	0.00E+00	1.81E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	2.72E-03	1.17E-04	0.00E+00	0.00E+00	0.00E+00	1.25E-06	0.00E+00	1.12E-05	2.85E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-3.49E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-5.48E-01	0.00E+00	5.48E-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.	1.98E-04	4.16E-05	0.00E+00	0.00E+00	0.00E+00	4.47E-07	0.00E+00	6.20E-06	2.46E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	3.42E-10	3.48E-12	0.00E+00	0.00E+00	0.00E+00	3.73E-14	0.00E+00	2.26E-12	3.48E-10
Non-hazardous waste disposed	kg	3.54E-02	7.19E-05	0.00E+00	0.00E+00	0.00E+00	7.71E-07	0.00E+00	2.25E-01	2.61E-01
High-level radioactive waste	kg	1.82E-04	2.32E-06	0.00E+00	0.00E+00	0.00E+00	2.49E-08	0.00E+00	4.82E-07	1.84E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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



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Environmental Product Declaration

Ceilings Plus® Colortex™ Barz® PET Baffles

Los Angeles, CA



Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 3"x6"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	2.41E+00	4.37E-02	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	8.99E-03	2.46E+00
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	1.05E+01	1.13E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	5.98E-02	1.17E+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										
Secondary Material (SM)	kg	2.40E-01	0.00E+00	2.40E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-renewable Secondary Fuel (NRSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Renewable Energy (RE)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Consumption of Fresh Water	m3	3.64E-03	1.57E-04	0.00E+00	0.00E+00	0.00E+00	1.70E-06	0.00E+00	1.51E-05	3.81E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-4.62E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-7.30E-01	0.00E+00	7.30E-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.	2.67E-04	5.60E-05	0.00E+00	0.00E+00	0.00E+00	6.06E-07	0.00E+00	8.41E-06	3.32E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	4.54E-10	4.69E-12	0.00E+00	0.00E+00	0.00E+00	5.06E-14	0.00E+00	3.07E-12	4.62E-10
Non-hazardous waste disposed	kg	4.71E-02	9.68E-05	0.00E+00	0.00E+00	0.00E+00	1.05E-06	0.00E+00	3.06E-01	3.53E-01
High-level radioactive waste	kg	2.47E-04	3.13E-06	0.00E+00	0.00E+00	0.00E+00	3.37E-08	0.00E+00	6.55E-07	2.50E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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

Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 4"x2"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	8.64E-01	2.48E-02	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	3.65E-03	8.92E-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	4.24E+00	6.40E-01	0.00E+00	0.00E+00	0.00E+00	4.94E-03	0.00E+00	2.43E-02	4.91E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	7.22E-02	0.00E+00	7.22E-02						
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	1.31E-03	8.90E-05	0.00E+00	0.00E+00	0.00E+00	6.91E-07	0.00E+00	6.15E-06	1.41E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-1.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-5.84E-01	0.00E+00	5.84E-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.	1.06E-04	3.17E-05	0.00E+00	0.00E+00	0.00E+00	2.46E-07	0.00E+00	3.42E-06	1.42E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	1.78E-10	2.66E-12	0.00E+00	0.00E+00	0.00E+00	2.06E-14	0.00E+00	1.25E-12	1.82E-10
Non-hazardous waste disposed	kg	1.54E-02	5.48E-05	0.00E+00	0.00E+00	0.00E+00	4.25E-07	0.00E+00	1.24E-01	1.40E-01
High-level radioactive waste	kg	1.04E-04	1.77E-06	0.00E+00	0.00E+00	0.00E+00	1.37E-08	0.00E+00	2.66E-07	1.06E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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



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Ceilings Plus® Colortex™ Barz® PET Baffles

Los Angeles, CA



Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 4"x2"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	1.20E+00	3.50E-02	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	4.72E-03	1.24E+00
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	5.77E+00	9.04E-01	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	3.14E-02	6.71E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	1.07E-01	0.00E+00	1.07E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	1.83E-03	1.26E-04	0.00E+00	0.00E+00	0.00E+00	8.94E-07	0.00E+00	7.95E-06	1.97E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-2.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-8.76E-01	0.00E+00	8.76E-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.	1.42E-04	4.48E-05	0.00E+00	0.00E+00	0.00E+00	3.19E-07	0.00E+00	4.42E-06	1.91E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	2.61E-10	3.75E-12	0.00E+00	0.00E+00	0.00E+00	2.66E-14	0.00E+00	1.61E-12	2.66E-10
Non-hazardous waste disposed	kg	2.22E-02	7.75E-05	0.00E+00	0.00E+00	0.00E+00	5.50E-07	0.00E+00	1.61E-01	1.83E-01
High-level radioactive waste	kg	1.35E-04	2.50E-06	0.00E+00	0.00E+00	0.00E+00	1.77E-08	0.00E+00	3.44E-07	1.38E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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

Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 4"x2"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	1.62E+00	4.73E-02	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	6.52E-03	1.68E+00
Renewable primary resources with energy content used as material (RPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-renewable primary resources used as an energy carrier (NRPRE)	MJ, NCV	7.86E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-03	0.00E+00	4.34E-02	9.13E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	1.43E-01	0.00E+00	1.43E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	2.48E-03	1.70E-04	0.00E+00	0.00E+00	0.00E+00	1.23E-06	0.00E+00	1.10E-05	2.66E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-2.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Removals and emissions associated with biogenic carbon content of the bio-based packaging	kg CO2-eq.	-1.17E+00	0.00E+00	1.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from land use change	kg CO2-eq.	1.94E-04	6.06E-05	0.00E+00	0.00E+00	0.00E+00	4.40E-07	0.00E+00	6.11E-06	2.61E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	3.48E-10	5.07E-12	0.00E+00	0.00E+00	0.00E+00	3.67E-14	0.00E+00	2.23E-12	3.55E-10
Non-hazardous waste disposed	kg	2.97E-02	1.05E-04	0.00E+00	0.00E+00	0.00E+00	7.59E-07	0.00E+00	2.22E-01	2.52E-01
High-level radioactive waste	kg	1.87E-04	3.38E-06	0.00E+00	0.00E+00	0.00E+00	2.45E-08	0.00E+00	4.75E-07	1.91E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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



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Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 4"x4"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	1.25E+00	2.85E-02	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	4.92E-03	1.29E+00
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	5.74E+00	7.35E-01	0.00E+00	0.00E+00	0.00E+00	6.67E-03	0.00E+00	3.27E-02	6.51E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	1.15E-01	0.00E+00	1.15E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	1.89E-03	1.02E-04	0.00E+00	0.00E+00	0.00E+00	9.32E-07	0.00E+00	8.29E-06	2.00E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-2.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-5.84E-01	0.00E+00	5.84E-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.	1.46E-04	3.64E-05	0.00E+00	0.00E+00	0.00E+00	3.32E-07	0.00E+00	4.61E-06	1.87E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	2.46E-10	3.05E-12	0.00E+00	0.00E+00	0.00E+00	2.77E-14	0.00E+00	1.68E-12	2.51E-10
Non-hazardous waste disposed	kg	2.35E-02	6.30E-05	0.00E+00	0.00E+00	0.00E+00	5.73E-07	0.00E+00	1.67E-01	1.91E-01
High-level radioactive waste	kg	1.38E-04	2.04E-06	0.00E+00	0.00E+00	0.00E+00	1.85E-08	0.00E+00	3.59E-07	1.40E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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

Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 4"x4"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	1.77E+00	4.04E-02	0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	6.59E-03	1.82E+00
Renewable primary resources with energy content used as material (RPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-renewable primary resources used as an energy carrier (NRPRE)	MJ, NCV	7.95E+00	1.04E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-03	0.00E+00	4.38E-02	9.05E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	1.71E-01	0.00E+00	1.71E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	2.67E-03	1.45E-04	0.00E+00	0.00E+00	0.00E+00	1.25E-06	0.00E+00	1.11E-05	2.83E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-3.29E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-8.76E-01	0.00E+00	8.76E-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.	1.99E-04	5.17E-05	0.00E+00	0.00E+00	0.00E+00	4.44E-07	0.00E+00	6.17E-06	2.58E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	3.59E-10	4.33E-12	0.00E+00	0.00E+00	0.00E+00	3.71E-14	0.00E+00	2.25E-12	3.65E-10
Non-hazardous waste disposed	kg	3.40E-02	8.94E-05	0.00E+00	0.00E+00	0.00E+00	7.67E-07	0.00E+00	2.24E-01	2.58E-01
High-level radioactive waste	kg	1.84E-04	2.89E-06	0.00E+00	0.00E+00	0.00E+00	2.47E-08	0.00E+00	4.80E-07	1.88E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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



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Environmental Product Declaration

Ceilings Plus® Colortex™ Barz® PET Baffles

Los Angeles, CA



Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 4"x4"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	2.37E+00	5.44E-02	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	8.98E-03	2.44E+00
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	1.07E+01	1.41E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	5.97E-02	1.22E+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										
Secondary Material (SM)	kg	2.26E-01	0.00E+00	2.26E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-renewable Secondary Fuel (NRSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Renewable Energy (RE)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Consumption of Fresh Water	m3	3.59E-03	1.95E-04	0.00E+00	0.00E+00	0.00E+00	1.70E-06	0.00E+00	1.51E-05	3.80E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-4.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Removals and emissions associated with biogenic carbon content of the bio-based packaging	kg CO2-eq.	-1.17E+00	0.00E+00	1.17E+00	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.	2.70E-04	6.96E-05	0.00E+00	0.00E+00	0.00E+00	6.06E-07	0.00E+00	8.41E-06	3.48E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	4.78E-10	5.84E-12	0.00E+00	0.00E+00	0.00E+00	5.06E-14	0.00E+00	3.07E-12	4.87E-10
Non-hazardous waste disposed	kg	4.53E-02	1.20E-04	0.00E+00	0.00E+00	0.00E+00	1.05E-06	0.00E+00	3.05E-01	3.51E-01
High-level radioactive waste	kg	2.51E-04	3.89E-06	0.00E+00	0.00E+00	0.00E+00	3.37E-08	0.00E+00	6.54E-07	2.56E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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

Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 4"x8"x4' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	2.02E+00	3.58E-02	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	7.47E-03	2.06E+00
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	8.68E+00	9.25E-01	0.00E+00	0.00E+00	0.00E+00	1.01E-02	0.00E+00	4.97E-02	9.67E+00
Non-renewable primary resources with energy content used as material (NRPRM)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary material, secondary fuel and recovered energy										
Secondary Material (SM)	kg	2.02E-01	0.00E+00	2.02E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-renewable Secondary Fuel (NRSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Renewable Energy (RE)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Consumption of Fresh Water	m3	3.02E-03	1.29E-04	0.00E+00	0.00E+00	0.00E+00	1.41E-06	0.00E+00	1.26E-05	3.17E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-3.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-5.84E-01	0.00E+00	5.84E-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.	2.23E-04	4.58E-05	0.00E+00	0.00E+00	0.00E+00	5.04E-07	0.00E+00	6.99E-06	2.76E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	3.77E-10	3.84E-12	0.00E+00	0.00E+00	0.00E+00	4.21E-14	0.00E+00	2.55E-12	3.83E-10
Non-hazardous waste disposed	kg	3.94E-02	7.93E-05	0.00E+00	0.00E+00	0.00E+00	8.69E-07	0.00E+00	2.54E-01	2.94E-01
High-level radioactive waste	kg	2.04E-04	2.56E-06	0.00E+00	0.00E+00	0.00E+00	2.80E-08	0.00E+00	5.44E-07	2.07E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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



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Ceilings Plus® Colortex™ Barz® PET Baffles

Los Angeles, CA



Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 4"x8"x6' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	2.89E+00	5.12E-02	0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	1.03E-02	2.95E+00
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	1.23E+01	1.32E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-02	0.00E+00	6.86E-02	1.37E+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										
Secondary Material (SM)	kg	2.97E-01	0.00E+00	2.97E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	4.34E-03	1.84E-04	0.00E+00	0.00E+00	0.00E+00	1.95E-06	0.00E+00	1.74E-05	4.54E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-5.74E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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.	-8.76E-01	0.00E+00	8.76E-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.	3.12E-04	6.55E-05	0.00E+00	0.00E+00	0.00E+00	6.96E-07	0.00E+00	9.66E-06	3.88E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	5.50E-10	5.49E-12	0.00E+00	0.00E+00	0.00E+00	5.81E-14	0.00E+00	3.53E-12	5.59E-10
Non-hazardous waste disposed	kg	5.75E-02	1.13E-04	0.00E+00	0.00E+00	0.00E+00	1.20E-06	0.00E+00	3.51E-01	4.09E-01
High-level radioactive waste	kg	2.82E-04	3.66E-06	0.00E+00	0.00E+00	0.00E+00	3.87E-08	0.00E+00	7.52E-07	2.87E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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

Resource and Waste Flows for 1 Square Foot of Colortex™ Barz® 4"x8"x8' Assembly using a 6" (152 mm) Spacing (A1-C4)										
	Units	Stage								
		A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total A1-C4
Use of Primary Resources										
Renewable primary resources used as an energy carrier (RPRE)	MJ, NCV	3.86E+00	6.86E-02	0.00E+00	0.00E+00	0.00E+00	7.32E-04	0.00E+00	1.39E-02	3.94E+00
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	1.65E+01	1.77E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-02	0.00E+00	9.24E-02	1.84E+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										
Secondary Material (SM)	kg	3.93E-01	0.00E+00	3.93E-01						
Renewable Secondary Fuel (RSF)	MJ, NCV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	5.79E-03	2.47E-04	0.00E+00	0.00E+00	0.00E+00	2.63E-06	0.00E+00	2.34E-05	6.06E-03
Additional inventory parameters for transparency										
Removals and emissions associated with biogenic carbon content of the bio-based product	kg CO2-eq.	-7.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-02	0.00E+00
Emission from calcination and uptake from carbonation	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Removals and emissions associated with biogenic carbon content of the bio-based packaging	kg CO2-eq.	-1.17E+00	0.00E+00	1.17E+00	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.	4.19E-04	8.78E-05	0.00E+00	0.00E+00	0.00E+00	9.38E-07	0.00E+00	1.30E-05	5.21E-04
Emissions from combustion of waste from renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions from combustion of waste from non-renewable sources used in production processes	kg CO2-eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indicators describing waste										
Hazardous waste disposed	kg	7.32E-10	7.36E-12	0.00E+00	0.00E+00	0.00E+00	7.83E-14	0.00E+00	4.75E-12	7.44E-10
Non-hazardous waste disposed	kg	7.64E-02	1.52E-04	0.00E+00	0.00E+00	0.00E+00	1.62E-06	0.00E+00	4.73E-01	5.49E-01
High-level radioactive waste	kg	3.81E-04	4.91E-06	0.00E+00	0.00E+00	0.00E+00	5.22E-08	0.00E+00	1.01E-06	3.87E-04
Intermediate and low-level waste	kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Assignments of output flows at the end-of-life										
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

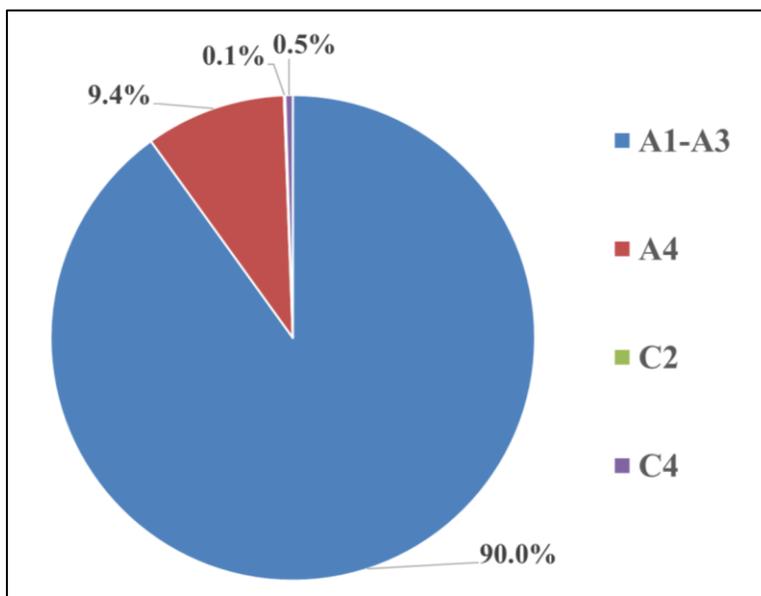


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5. LCA Interpretation

The LCA results for the production of USG Ceilings Plus® Colortex™ Barz® PET Baffles were dominated by product manufacturing including felt manufacture, bracket manufacture and assembly.

Figure 3: Process Dominance Analysis for GWP for the Production of 1 Square Foot of USG Ceilings Plus® Colortex™ Barz® PET Baffle - 2"x2"x4' Assembly with a 6" Spacing



6. References

LCA Report

A Cradle-to-Gate (A1-A3) and Cradle-to-Grave (A1-C4) Life Cycle Assessment of USG Ceilings Plus® Colortex™ Barz® PET Baffles, 9/9/22. USG (Confidential)

Product PCR

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

UL Environment: PCR Guidance for Building-Related Products and Services; Part B: Non-Metal Ceiling and Interior Wall Panel EPD Requirements; v2.0 April 13, 2021

Sustainability Reporting Standards

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

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

ISO 14040:2006/Amended 1:2020 - Environmental management – Life cycle assessment – Principles and framework

ISO 14044:2006/amended 2: 2020 - Environmental management – Life cycle assessment – Requirements and guidelines

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

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

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

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

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

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

ISO 21930:2017 - Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services

Product Testing Standards

ASTM C423-22 (2022), Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method

ASTM E84-22 (2022), Standard Test Method for Surface Burning Characteristics of Building Materials