

ENVIRONMENTAL PRODUCT DECLARATION

BEHR MARQUEE® EXTERIOR PAINT

EXTERIOR PAINT



Shown above: BEHR MARQUEE® Exterior Paint is a GREENGUARD® Gold certified, 100% acrylic, coating that delivers exceptional durability and weather resistance.

BEHR Paint Company

Behr Paint Company, producer of BEHR® and KILZ® products, is one of the largest manufacturers and suppliers of paint, primers, stains and surface finish products to do-it-yourselfers and professionals. Sustainability is a core concept of our business strategy and culture ensuring top economic, social and environmental performance. Behr Paint Company's commitment to sustainability, quality, value, and performance has driven our desire for innovation and transparency. The creation of a Life Cycle Assessment (LCA) report and Environmental Product Declaration (EPD) allows us to continually improve our operations and illustrate a complete story behind our products.

To learn more, visit behr.com and kilz.com



In order to support comparative assertions, this EPD meets all comparability requirements stated in ISO 14025:2006. However, such differences in certain assumptions, data quality, and variability between LCA data sets may still exist. As such, caution should be exercised when evaluating EPDs from different manufacturers, as the EPD results may not be entirely comparable. Any EPD comparison must be carried out at the building level per ISO 21930 guidelines. The results of this EPD reflect an average performance by the product and its actual impacts may vary on a case-to-case basis.

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EPD PROGRAM AND PROGRAM OPERATOR NAME, ADDRESS, LOGO, AND WEBSITE	UL Solutions 333 Pfingsten Rd, Northbrook IL, 60062	www.ul.com www.spot.ul.com
GENERAL PROGRAM INSTRUCTIONS AND VERSION NUMBER	Program Operator Rules v 2.7 2022	
MANUFACTURER NAME AND ADDRESS	Behr Process LLC 1801 E St Andrew Pl, Santa Ana, CA 92705	
DECLARATION NUMBER	4791080617.118.1	
DECLARED PRODUCT & FUNCTIONAL UNIT OR DECLARED UNIT	1m ² of covered and protected substrate for a period of 60 years with 97% opacity after drying	
REFERENCE PCR AND VERSION NUMBER	PCR for architectural coating: NAICS 325510, NSF (2022)	
DESCRIPTION OF PRODUCT APPLICATION/USE	Exterior Paint	
PRODUCT RSL DESCRIPTION (IF APPL.)	10 years market life and 20 years design life used over a 60 year estimated building life	
MARKETS OF APPLICABILITY	North America	
DATE OF ISSUE	September 9, 2024	
PERIOD OF VALIDITY	5 Years	
EPD TYPE	Product-specific	
RANGE OF DATASET VARIABILITY	N/A	
OVERALL DATA QUALITY ASSESSMENT SCORE	Very good	
EPD SCOPE	Cradle to grave	
YEAR(S) OF REPORTED PRIMARY DATA	2021	
LCA SOFTWARE & VERSION NUMBER	Sphera's LCA for Experts (fka GaBi) v10.7.0.183	
LCI DATABASE(S) & VERSION NUMBER	Sphera's Managed LCA Content (fka GaBi) 2023.1	
LCIA METHODOLOGY & VERSION NUMBER	IPCC AR5, TRACI 2.1, CML 2001 (2013)	
The PCR review was conducted by:	NSF International	
	PCR Review Panel	
	ncss@nsf.org	
This declaration was independently verified in accordance with ISO 14025: 2006. <input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL	<i>Cooper McCollum</i> Cooper McCollum, UL Solutions	
	Sphera	
This life cycle assessment was conducted in accordance with ISO 14040/44 and the reference PCR by:		
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	<i>MWildnauer</i> Maggie Wildnauer, WAP Sustainability	

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LIMITATIONS

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; the level of accuracy in estimation of effect differs for any particular product line and reported impact.

Comparability: EPDs from different programs may not be comparable. Full conformance with a PCR allows EPD comparability only when all stages of a life cycle have been considered. However, variations and deviations are possible". Example of variations: Different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared.

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1. Product Definition and Information

1.1. Description of Company/Organization

Founded in 1947, Behr Paint Company's unwavering commitment to quality, innovation, and value has helped foster their growth into one of the largest manufacturers of paints, primers, decorative finishes, stains, surface preparation and application products for DIYers and professionals in North America. With operations in the United States, Canada, and Mexico, this Santa Ana, California based company has worked diligently to deliver the quality brands, BEHR®, KILZ®, and WHIZZ® to meet the coating, color, and application needs of consumers, designers and professional paint contractors resulting in BEHR® becoming one of the most trusted brands in America. BEHR® paint delivers superior value at every price point so everyone can transform their space into the look they want, with the colors they love.

1.2. Product Description

Product Identification

BEHR MARQUEE® Exterior Paint is an advanced stain-blocking paint & primer that delivers exceptional durability and weather resistance. It provides excellent resistance to dirt and fading, while standing up to rain as early as 60 minutes after application. BEHR MARQUEE® Exterior Paint is highly ranked by independent 3rd party labs and is GREENGUARD® GOLD certified offering a line of coatings that meet or exceed environmental and performance requirements. This product line includes: 4450 Flat, 5450 Semi-Gloss, 9450 Satin and is available in gallon and 5-gallon sized containers. Tint bases are offered in: Ultra Pure White, Medium and Deep, to allow custom tinting to a full range of colors.

Product Specification

Table 1. Specifications for BEHR MARQUEE® Exterior Paint

SKU	FILL / MAX TINT LOAD	GLOSS @ 60°	SHEEN @ 85°	RESIN TYPE	% SOLIDS BY VOLUME	% SOLIDS BY WEIGHT	FILM THICKNESS @ 250	FILM THICKNESS @ 400	VISCOSITY (KU)
							SQ FT/GL	SQ FT/GL	
4450	128 fl oz 2 fl oz	-	0 – 6	100% Acrylic	45% ± 2%	58% ± 2%	Wet: 6.4 mils Dry: 2.9 mils	Wet: 4.0 mils Dry: 1.8 mils	100 – 110
4454	120 fl oz 10 fl oz	-	0 – 6	100% Acrylic	45% ± 2%	58% ± 2%	Wet: 6.4 mils Dry: 2.9 mils	Wet: 4.0 mils Dry: 1.8 mils	100 – 110
4453	116 fl oz 14 fl oz	-	0 – 6	100% Acrylic	45% ± 2%	58% ± 2%	Wet: 6.4 mils Dry: 2.9 mils	Wet: 4.0 mils Dry: 1.8 mils	100 – 110



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SKU	FILL / MAX TINT LOAD	GLOSS @ 60°	SHEEN @ 85°	RESIN TYPE	% SOLIDS BY VOLUME	% SOLIDS BY WEIGHT	FILM THICKNESS @ 250	FILM THICKNESS @ 400	VISCOSITY (KU)
							SQ FT/GL	SQ FT/GL	
5450	128 fl oz 2 fl oz	45 – 55	-	100% Acrylic	39% ± 2%	49% ± 2%	Wet: 6.4 mils Dry: 2.5 mils	Wet: 4.0 mils Dry: 1.6 mils	100 – 110
5454	120 fl oz 10 fl oz	45 – 55	-	100% Acrylic	39% ± 2%	49% ± 2%	Wet: 6.4 mils Dry: 2.5 mils	Wet: 4.0 mils Dry: 1.6 mils	100 – 110
5453	116 fl oz 14 fl oz	45 - 55	-	100% Acrylic	39% ± 2%	49% ± 2%	Wet: 6.4 mils Dry: 2.5 mils	Wet: 4.0 mils Dry: 1.6 mils	100 – 110
9450	128 fl oz 2 fl oz	15 – 25	-	100% Acrylic	41% ± 2%	53% ± 2%	Wet: 6.4 mils Dry: 2.6 mils	Wet: 4.0 mils Dry: 1.6 mils	100 – 110
9454	120 fl oz 10 fl oz	15 – 25	-	100% Acrylic	41% ± 2%	53% ± 2%	Wet: 6.4 mils Dry: 2.6 mils	Wet: 4.0 mils Dry: 1.6 mils	100 – 110
9453	116 fl oz 14 fl oz	15 – 25	-	100% Acrylic	41% ± 2%	53% ± 2%	Wet: 6.4 mils Dry: 2.6 mils	Wet: 4.0 mils Dry: 1.6 mils	100 – 110

1.3. Application

Recommended application information for BEHR MARQUEE® Exterior Paint is as follows:

Brush: Nylon/polyester

Roller: 3/8" – 3/4" nap roller cover, depending on surface texture

Airless Spray:

Tip: .015" - .021"

Filter: 60 mesh

Fluid Pressure: 1,400 – 2,400 psi

Thinning: Do not thin if using a roller or brush; however, if using a sprayer and thinning is required, thin with water at a rate of no more than ½ pint per gallon.

The VOC emissions associated with each SKU after application are all <0.22 mg/m³. The method used to determine this was the California Department of Public Health (CDPH) standard test method, a revised and expanded standard based on California Specification 01350. VOC content in g/L for each SKU is shown in Table 2.





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Table 2. VOC content for each paint (g/L)

	4450	4454	4453	5450	5454	5453	9450	9454	9453
VOC (g/L of paint)	25.52	30.92	19.62	42.67	48.91	43.13	31.69	38.18	32.08

1.4. Material Composition

The material composition of the paint in this product line is broken down by sheen and shown in Table 3 to Table 5.

Table 3. Material composition range in weight % for BEHR MARQUEE® Exterior Flat Paint

MATERIAL- FLAT	4450	4454	4453
Resin/Binder	40 - 45%	45 - 50%	40 - 45%
Additive	10 - 15%	10 - 15%	10 - 15%
Biocide	1 - 3%	1 - 3%	1 - 3%
Extender Pigment	10 - 15%	10 - 15%	20 - 25%
Pigment (TiO2)	25 - 30%	15 - 20%	-
Water	5 - 10%	5 - 10%	15 - 20%

Table 4. Material composition range in weight % for BEHR MARQUEE® Exterior Semi-Gloss Paint

MATERIAL- SEMI-GLOSS	5450	5454	5453
Resin/Binder	50 - 55%	50 - 55%	60 - 65%
Additive	10 - 15%	10 - 15%	10 - 15%
Biocide	1 - 3%	1 - 3%	1 - 3%
Extender Pigment	-	0.1 - 1%	5 - 10%
Pigment (TiO2)	25 - 30%	15 - 20%	-
Water	5 - 10%	10 - 15%	15 - 20%





Table 5. Material composition range in weight % for BEHR MARQUEE® Exterior Satin Paint

MATERIAL – SATIN	9450	9454	9453
Resin/Binder	45 - 50%	50 - 55%	55 - 60%
Additive	10 - 15%	10 - 15%	10 - 15%
Biocide	1 - 3%	1 - 3%	1 - 3%
Extender Pigment	5 - 10%	5 - 10%	15 - 20%
Pigment (TiO2)	25 - 30%	15 - 20%	-
Water	5 - 10%	5 - 10%	10 - 15%

1.5. Manufacturing

As shown in Figure 1, manufacturing begins with metering of raw materials, followed by the pre-mix, dispersion, and let-down steps. The finished paint is dispensed into cans, and/or pails, which are then labeled, boxed, and loaded onto pallets for distribution.

Flow Diagram

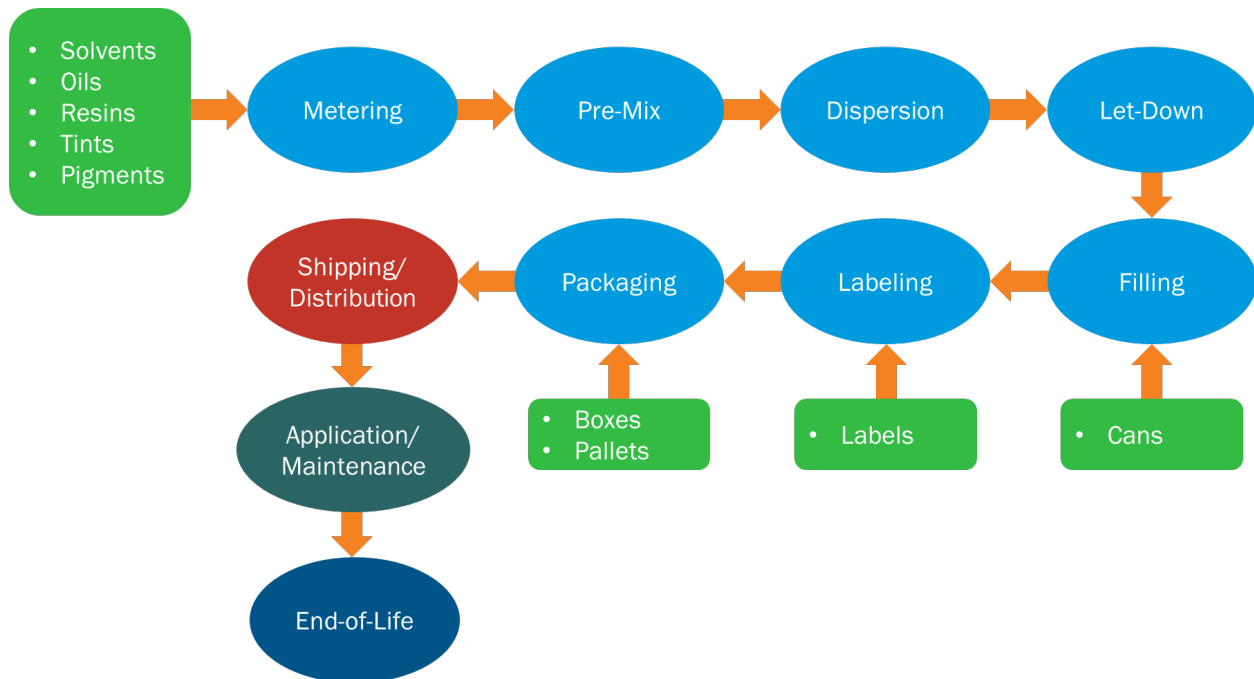


Figure 1. Flow diagram for cradle-to-grave LCA of BEHR MARQUEE® Exterior Paint





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1.6. Packaging

Table 6 provides descriptions, volumes, and materials for the primary paint packaging used for BEHR MARQUEE® Exterior Paint. These packages are then placed in cardboard boxes and loaded onto heat-treated wooden pallets for distribution.

Table 6. Description of primary paint packaging

CONTAINER	VOLUME	MATERIAL
Can	Gallon	Polypropylene
Pail	5 Gallons	High Density Polyethylene

1.7. Transportation

Raw materials and packaging are transported to each of the production facilities via truck or rail. After production and packaging, the paint is sent to one of twelve distribution centers by truck before being trucked to individual The Home Depot stores. Weighted average distances are calculated for transportation from distribution centers to stores in seven different regions.

1.8. Product Installation and Use

The use stage begins when the user applies the product to a substrate. This stage does not require any energy or additional cleaning inputs, but includes the VOCs emitted during application and drying. The products included in the BEHR MARQUEE® Exterior Paint portfolio are considered low-VOC products.

1.9. Reference Service Life and Estimated Building Service Life

Table 7 shows the design lifetime for interior and exterior paints of different quality. The entire BEHR MARQUEE® Exterior Paint line is considered high quality, and therefore has a design life of 20 years. Per the PCR, all results declared are calculated for a market life of 10 years. The estimated building life is 60 years per the PCR.

Table 7. Design lifetime of paints

COATING TYPE	LOW QUALITY	MID QUALITY	HIGH QUALITY	ALTERNATIVE
Interior Paint	3 years	7 years	15 years	N/A
Exterior Paint	5 years	10 years	20 years	Warranty





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1.10. Reuse, Recycling, and Energy Recovery

The Home Depot stores encourage customers to use PaintCare or local paint recycling programs.

1.11. Disposal

Product end-of-life occurs with the disposal of the substrate material. 100% of the waste is disposed of in a landfill at the end-of-life stage and cannot be separated from the substrate before disposal. Packaging is recovered at a rate of 6.2% for plastics, 33.9% for metals, and 80.9% for paper and corrugated material. Recovery rates represent the average fractions of waste recovered in the US.

2. Life Cycle Assessment Background Information

2.1. Functional or Declared Unit

The functional unit for the study is:

Covering and protecting 1 m² of substrate for a period of 60 years (the assumed lifetime of a building), exhibiting 97% opacity after drying

The functional unit and reference flow required for the functional unit were calculated for both the market life and design life as prescribed by the PCR. Market life for exterior paints is 10 years. The design life is based on the quality as determined by ASTM test methods for scrub resistance (ASTM D2486 - 06(2012)e1), burnish (ASTM D6736 - 08(2013)), and washability (ASTM D4828 - 94(2012)e1) and is shown in Table 7. Lifetimes and reference flows for each sheen and base combination are shown in Table 8. Results were calculated for all base and sheen formulations.

For further technical information on BEHR MARQUEE® Exterior Paint, visit www.behr.com.

Table 8. Sheen, base, design life, market life, and reference flows for each paint product

SKU	SHEEN	BASE	DESIGN LIFETIME (YEARS)	MARKET LIFETIME (YEARS)	PAINT PER UNIT AREA (KG/M ²)	COLORANT PER UNIT AREA (KG/M ²)
4450	Flat	White	20	10	0.139	0.0047
4454	Flat	Medium	20	10	0.132	0.0126
4453	Flat	Deep	20	10	0.127	0.0159
5450	Semi-Gloss	White	20	10	0.127	0.0047



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SKU	SHEEN	BASE	DESIGN LIFETIME (YEARS)	MARKET LIFETIME (YEARS)	PAINT PER UNIT AREA (KG/M ²)	COLORANT PER UNIT AREA (KG/M ²)
5454	Semi-Gloss	Medium	20	10	0.120	0.0126
5453	Semi-Gloss	Deep	20	10	0.113	0.0159
9450	Satin	White	20	10	0.130	0.0047
9454	Satin	Medium	20	10	0.126	0.0126
9453	Satin	Deep	20	10	0.121	0.0159

2.2. System Boundary

The LCA was performed according to ISO 14040 standards. The system boundary is cradle-to-grave, and includes the following modules as defined in the PCR. The declaration covers the full range of BEHR MARQUEE® Exterior Paint sold in the North American market for the reference year 2021.

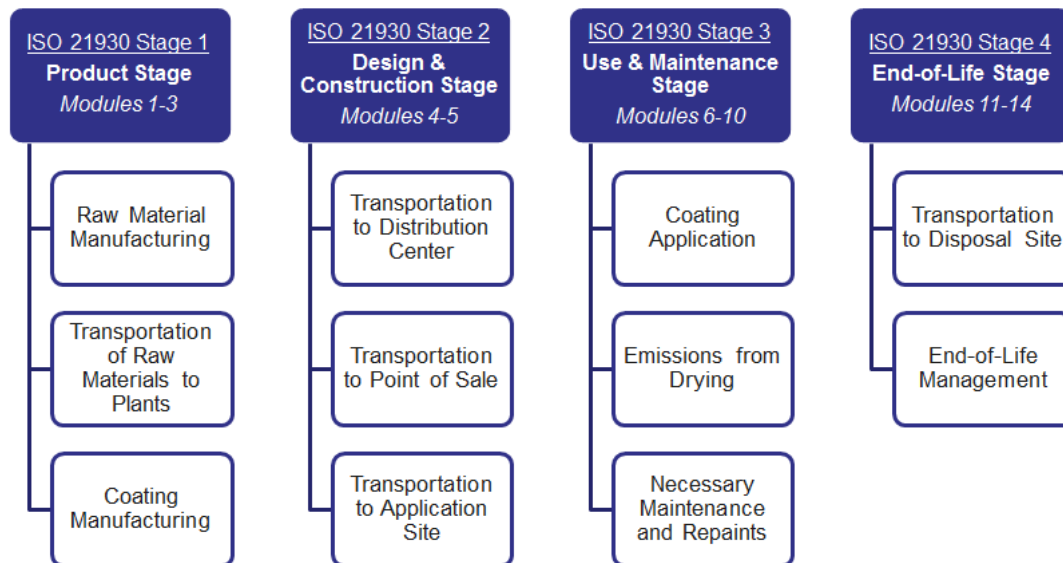


Figure 2. System boundaries for cradle to grave LCA





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2.3. Estimates and Assumptions

The modeling approach makes assumptions that are prescribed by the PCR, such as in packaging disposal and recovery treatment, as well as transportation distances and use phase assumptions.

2.4. Cut-off Criteria

No cut-off criteria was defined by this study. For processes within the system boundary, all available energy and material flow data have been included in the model.

2.5. Data Sources and Quality

Primary data, for the 2021 reference year, was obtained from three of Behr's production facilities that produce BEHR MARQUEE® Exterior Paint. Those facilities are located in: Allentown, PA; McDonough, GA and Santa Ana, CA. Background data was obtained from the GaBi 2023.1 database and is representative of the years 2012-2021. Overall, both primary and background data are representative of the product system and have been deemed very good quality.

2.6. Period under Review

The period under review is 2021.

2.7. Allocation

Manufacturing inputs for the three facilities were allocated to each paint product by volume.

3. Life Cycle Assessment Results

In accordance with the PCR, TRACI 2.1 impact characterization methodology is used to calculate the declared environmental impacts, except for global warming potential and abiotic resource depletion, which follow the methodology in the IPCC 5th assessment report, and CML, respectively (Table 9). Additional inventory metrics are also calculated per the guiding PCR. The declared impacts and inventory metrics are summarized in this section. The total LCIA results for design life and market life for each impact category are provided in Table 10 and Table 17, respectively.





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Furthermore, the results of each impact category for each stage are presented in Table 11 to Table 16 and from Table 18 to Table 23. Additionally, the LCI results for each stage are presented for each product (both market life and design life). The total LCI results for each impact category are also mentioned in this section.

3.1. Life Cycle Impact Assessment Results

Table 9. Environmental impact categories for North America

PARAMETER	DESCRIPTION	LCIA METHOD	UNIT
GWP	Global warming potential, fossil	IPCCC AR5 (2013)	kg CO ₂ eq.
ODP	Stratospheric ozone layer depletion potential	TRACI 2.1	kg CFC 11 eq.
AP	Land and water acidification potential	TRACI 2.1	kg SO ₂ eq.
EP	Eutrophication potential	TRACI 2.1	kg N eq.
SFP	Tropospheric ozone photochemical oxidant (smog) formation potential	TRACI 2.1	kg O ₃ eq.
ADP _f	Abiotic resource potential for fossil resources	CML 2001	MJ

Table 10. Total LCIA results for every exterior paint product, per 1 m² for 60 years by design life

SKU	GWP KG CO ₂ EQ.	AP KG SO ₂ EQ.	EP KG N EQ.	ODP KG CFC-11 EQ.	SFP KG O ₃ EQ.	ADP _f MJ
4450	1.01E+00	1.64E-02	2.63E-04	3.65E-14	3.87E-02	1.91E+01
4454	9.19E-01	1.06E-02	2.38E-04	3.16E-14	3.32E-02	1.85E+01
4453	6.73E-01	1.48E-03	1.97E-04	2.21E-14	2.27E-02	1.48E+01
5450	1.01E+00	1.63E-02	2.50E-04	3.66E-14	3.77E-02	1.95E+01
5454	9.06E-01	1.03E-02	2.22E-04	3.13E-14	3.15E-02	1.85E+01
5453	7.90E-01	1.66E-03	1.99E-04	1.27E-09	2.44E-02	1.78E+01
9450	1.01E+00	1.59E-02	2.52E-04	3.61E-14	3.75E-02	1.93E+01
9454	9.37E-01	1.05E-02	2.33E-04	3.22E-14	3.28E-02	1.91E+01
9453	7.94E-01	1.70E-03	2.08E-04	1.20E-09	2.51E-02	1.78E+01



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Table 11. GWP LCIA results for every exterior paint product, per 1 m² for 60 years by design life (kg CO₂ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
4450	8.67E-01	1.35E-01	0.00E+00	1.17E-02	1.01E+00
4454	7.12E-01	1.95E-01	0.00E+00	1.18E-02	9.19E-01
4453	4.49E-01	2.13E-01	0.00E+00	1.12E-02	6.73E-01
5450	8.76E-01	1.28E-01	0.00E+00	1.10E-02	1.01E+00
5454	7.08E-01	1.87E-01	0.00E+00	1.10E-02	9.06E-01
5453	5.78E-01	2.01E-01	0.00E+00	1.02E-02	7.90E-01
9450	8.67E-01	1.30E-01	0.00E+00	1.12E-02	1.01E+00
9454	7.38E-01	1.88E-01	0.00E+00	1.10E-02	9.37E-01
9453	5.78E-01	2.05E-01	0.00E+00	1.04E-02	7.94E-01

Table 12. AP LCIA results for every exterior paint product, per 1 m² for 60 years by design life (kg SO₂ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
4450	1.61E-02	2.77E-04	0.00E+00	5.38E-05	1.64E-02
4454	1.02E-02	3.78E-04	0.00E+00	5.26E-05	1.06E-02
4453	1.03E-03	4.00E-04	0.00E+00	5.03E-05	1.48E-03
5450	1.60E-02	2.63E-04	0.00E+00	4.96E-05	1.63E-02
5454	9.94E-03	3.60E-04	0.00E+00	4.84E-05	1.03E-02
5453	1.24E-03	3.76E-04	0.00E+00	4.51E-05	1.66E-03
9450	1.56E-02	2.66E-04	0.00E+00	5.08E-05	1.59E-02
9454	1.01E-02	3.59E-04	0.00E+00	4.97E-05	1.05E-02
9453	1.28E-03	3.80E-04	0.00E+00	4.72E-05	1.70E-03

Table 13. EP LCIA results for every exterior paint product, per 1 m² for 60 years by design life (kg N eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
4450	1.41E-04	3.87E-05	0.00E+00	8.33E-05	2.63E-04
4454	1.18E-04	4.13E-05	0.00E+00	7.96E-05	2.38E-04
4453	8.01E-05	4.05E-05	0.00E+00	7.66E-05	1.97E-04



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SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
5450	1.38E-04	3.60E-05	0.00E+00	7.63E-05	2.50E-04
5454	1.11E-04	3.83E-05	0.00E+00	7.26E-05	2.22E-04
5453	9.47E-05	3.67E-05	0.00E+00	6.79E-05	1.99E-04
9450	1.37E-04	3.66E-05	0.00E+00	7.83E-05	2.52E-04
9454	1.18E-04	3.89E-05	0.00E+00	7.59E-05	2.33E-04
9453	9.73E-05	3.79E-05	0.00E+00	7.27E-05	2.08E-04

Table 14. ODP LCIA results for every exterior paint product, per 1 m² for 60 years by design life (kg CFC-11 eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
4450	3.53E-14	8.68E-16	0.00E+00	3.60E-16	3.65E-14
4454	2.94E-14	1.82E-15	0.00E+00	3.34E-16	3.16E-14
4453	1.97E-14	2.17E-15	0.00E+00	3.17E-16	2.21E-14
5450	3.54E-14	8.49E-16	0.00E+00	3.13E-16	3.66E-14
5454	2.92E-14	1.79E-15	0.00E+00	2.92E-16	3.13E-14
5453	1.27E-09	2.11E-15	0.00E+00	2.69E-16	1.27E-09
9450	3.49E-14	8.53E-16	0.00E+00	3.29E-16	3.61E-14
9454	3.01E-14	1.80E-15	0.00E+00	3.17E-16	3.22E-14
9453	1.20E-09	2.14E-15	0.00E+00	3.03E-16	1.20E-09

Table 15. SFP LCIA results for every exterior paint product, per 1 m² for 60 years by design life (kg O₃ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
4450	3.26E-02	5.13E-03	1.86E-10	9.68E-04	3.87E-02
4454	2.62E-02	6.00E-03	1.86E-10	9.46E-04	3.32E-02
4453	1.58E-02	5.97E-03	1.86E-10	9.05E-04	2.27E-02
5450	3.19E-02	4.85E-03	1.86E-10	8.91E-04	3.77E-02
5454	2.50E-02	5.63E-03	1.86E-10	8.69E-04	3.15E-02
5453	1.81E-02	5.50E-03	1.86E-10	8.10E-04	2.44E-02
9450	3.17E-02	4.90E-03	1.86E-10	9.12E-04	3.75E-02



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SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
9454	2.63E-02	5.59E-03	1.86E-10	8.93E-04	3.28E-02
9453	1.88E-02	5.52E-03	1.86E-10	8.48E-04	2.51E-02

Table 16. ADP_F LCIA results for every exterior paint product, per 1 m² for 60 years by design life (MJ)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
4450	1.67E+01	2.26E+00	0.00E+00	5.73E-02	1.91E+01
4454	1.45E+01	3.92E+00	0.00E+00	5.17E-02	1.85E+01
4453	1.03E+01	4.46E+00	0.00E+00	4.52E-02	1.48E+01
5450	1.73E+01	2.18E+00	0.00E+00	4.02E-02	1.95E+01
5454	1.47E+01	3.80E+00	0.00E+00	3.82E-02	1.85E+01
5453	1.34E+01	4.29E+00	0.00E+00	3.20E-02	1.78E+01
9450	1.71E+01	2.20E+00	0.00E+00	4.63E-02	1.93E+01
9454	1.53E+01	3.82E+00	0.00E+00	4.64E-02	1.91E+01
9453	1.34E+01	4.35E+00	0.00E+00	4.16E-02	1.78E+01

Table 17. Total LCIA results for every exterior paint product, per 1 m² for 60 years by market life

SKU	GWP	AP	EP	ODP	SFP	ADP _F
	KG CO ₂ EQ.	KG SO ₂ EQ.	KG N EQ.	KG CFC 11 EQ.	KG O ₃ EQ.	MJ
4450	2.03E+00	3.29E-02	5.27E-04	7.30E-14	7.74E-02	3.81E+01
4454	1.84E+00	2.12E-02	4.77E-04	6.31E-14	6.64E-02	3.69E+01
4453	1.35E+00	2.96E-03	3.94E-04	4.43E-14	4.54E-02	2.97E+01
5450	2.03E+00	3.26E-02	5.01E-04	7.31E-14	7.54E-02	3.90E+01
5454	1.81E+00	2.07E-02	4.45E-04	6.26E-14	6.30E-02	3.71E+01
5453	1.58E+00	3.33E-03	3.99E-04	2.54E-09	4.88E-02	3.55E+01
9450	2.02E+00	3.19E-02	5.05E-04	7.22E-14	7.51E-02	3.86E+01
9454	1.87E+00	2.10E-02	4.66E-04	6.45E-14	6.55E-02	3.83E+01
9453	1.59E+00	3.41E-03	4.16E-04	2.39E-09	5.03E-02	3.55E+01



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Table 18. GWP LCIA results for every exterior paint product, per 1 m² for 60 years by market life (kg CO₂ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
4450	1.73E+00	2.71E-01	0.00E+00	2.35E-02	2.03E+00
4454	1.42E+00	3.91E-01	0.00E+00	2.35E-02	1.84E+00
4453	8.97E-01	4.25E-01	0.00E+00	2.24E-02	1.35E+00
5450	1.75E+00	2.57E-01	0.00E+00	2.20E-02	2.03E+00
5454	1.42E+00	3.74E-01	0.00E+00	2.20E-02	1.81E+00
5453	1.16E+00	4.02E-01	0.00E+00	2.05E-02	1.58E+00
9450	1.73E+00	2.60E-01	0.00E+00	2.24E-02	2.02E+00
9454	1.48E+00	3.77E-01	0.00E+00	2.21E-02	1.87E+00
9453	1.16E+00	4.10E-01	0.00E+00	2.08E-02	1.59E+00

Table 19. AP LCIA results for every exterior paint product, per 1 m² for 60 years by market life (kg SO₂ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
4450	3.22E-02	5.53E-04	0.00E+00	1.08E-04	3.29E-02
4454	2.04E-02	7.56E-04	0.00E+00	1.05E-04	2.12E-02
4453	2.06E-03	8.00E-04	0.00E+00	1.01E-04	2.96E-03
5450	3.20E-02	5.27E-04	0.00E+00	9.93E-05	3.26E-02
5454	1.99E-02	7.20E-04	0.00E+00	9.68E-05	2.07E-02
5453	2.48E-03	7.53E-04	0.00E+00	9.02E-05	3.33E-03
9450	3.12E-02	5.32E-04	0.00E+00	1.02E-04	3.19E-02
9454	2.02E-02	7.19E-04	0.00E+00	9.94E-05	2.10E-02
9453	2.56E-03	7.59E-04	0.00E+00	9.44E-05	3.41E-03



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Table 20. EP LCIA results for every exterior paint product, per 1 m² for 60 years by market life (kg N eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
4450	2.83E-04	7.74E-05	0.00E+00	1.67E-04	5.27E-04
4454	2.35E-04	8.26E-05	0.00E+00	1.59E-04	4.77E-04
4453	1.60E-04	8.10E-05	0.00E+00	1.53E-04	3.94E-04
5450	2.76E-04	7.20E-05	0.00E+00	1.53E-04	5.01E-04
5454	2.23E-04	7.65E-05	0.00E+00	1.45E-04	4.45E-04
5453	1.89E-04	7.34E-05	0.00E+00	1.36E-04	3.99E-04
9450	2.75E-04	7.33E-05	0.00E+00	1.57E-04	5.05E-04
9454	2.37E-04	7.77E-05	0.00E+00	1.52E-04	4.66E-04
9453	1.95E-04	7.57E-05	0.00E+00	1.45E-04	4.16E-04

Table 21. ODP LCIA results for every exterior paint product, per 1 m² for 60 years by market life (kg CFC-11 eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
4450	7.05E-14	1.74E-15	0.00E+00	7.21E-16	7.30E-14
4454	5.88E-14	3.65E-15	0.00E+00	6.68E-16	6.31E-14
4453	3.93E-14	4.33E-15	0.00E+00	6.35E-16	4.43E-14
5450	7.08E-14	1.70E-15	0.00E+00	6.27E-16	7.31E-14
5454	5.85E-14	3.58E-15	0.00E+00	5.83E-16	6.26E-14
5453	2.54E-09	4.23E-15	0.00E+00	5.38E-16	2.54E-09
9450	6.99E-14	1.71E-15	0.00E+00	6.57E-16	7.22E-14
9454	6.02E-14	3.60E-15	0.00E+00	6.35E-16	6.45E-14
9453	2.39E-09	4.27E-15	0.00E+00	6.06E-16	2.39E-09

Table 22. SFP LCIA results for every exterior paint product, per 1 m² for 60 years by market life (kg O₃ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
4450	6.52E-02	1.03E-02	3.72E-10	1.94E-03	7.74E-02
4454	5.25E-02	1.20E-02	3.72E-10	1.89E-03	6.64E-02
4453	3.16E-02	1.19E-02	3.72E-10	1.81E-03	4.54E-02



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SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
5450	6.39E-02	9.71E-03	3.72E-10	1.78E-03	7.54E-02
5454	5.00E-02	1.13E-02	3.72E-10	1.74E-03	6.30E-02
5453	3.62E-02	1.10E-02	3.72E-10	1.62E-03	4.88E-02
9450	6.35E-02	9.81E-03	3.72E-10	1.82E-03	7.51E-02
9454	5.25E-02	1.12E-02	3.72E-10	1.79E-03	6.55E-02
9453	3.75E-02	1.10E-02	3.72E-10	1.70E-03	5.03E-02

Table 23. ADPf LCIA results for every exterior paint product, per 1 m² for 60 years by market life (MJ)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
4450	3.35E+01	4.53E+00	0.00E+00	1.15E-01	3.81E+01
4454	2.90E+01	7.83E+00	0.00E+00	1.03E-01	3.69E+01
4453	2.07E+01	8.92E+00	0.00E+00	9.04E-02	2.97E+01
5450	3.46E+01	4.36E+00	0.00E+00	8.05E-02	3.90E+01
5454	2.94E+01	7.59E+00	0.00E+00	7.64E-02	3.71E+01
5453	2.69E+01	8.59E+00	0.00E+00	6.40E-02	3.55E+01
9450	3.41E+01	4.40E+00	0.00E+00	9.26E-02	3.86E+01
9454	3.06E+01	7.64E+00	0.00E+00	9.29E-02	3.83E+01
9453	2.68E+01	8.70E+00	0.00E+00	8.32E-02	3.55E+01





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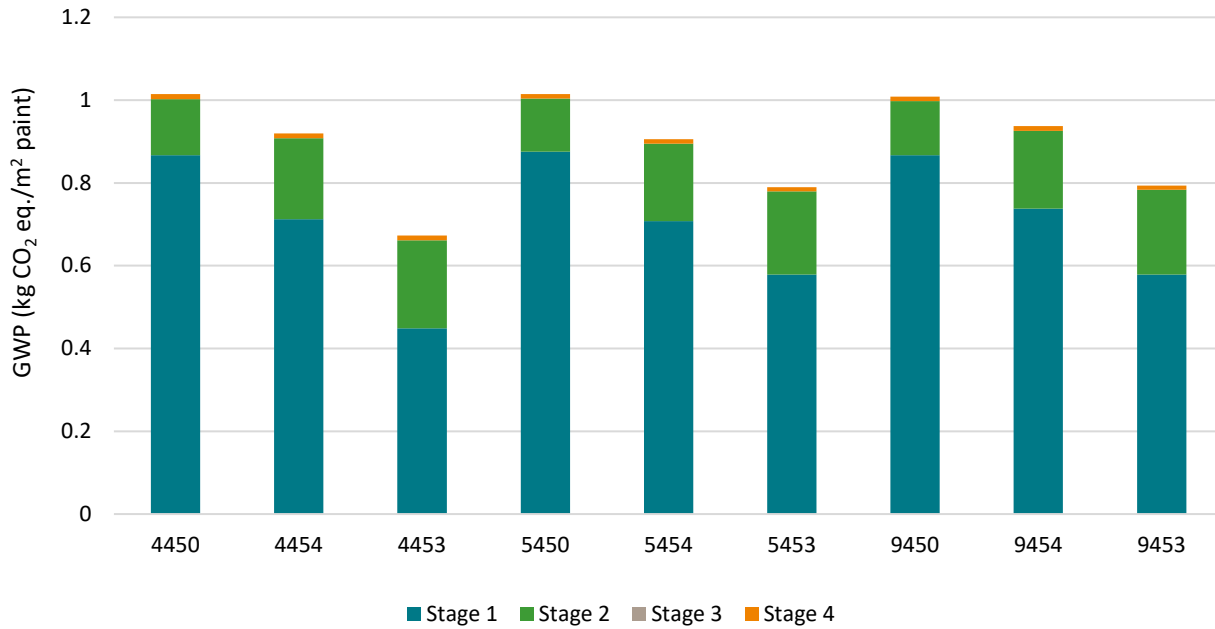


Figure 3: GWP results by stage by design life

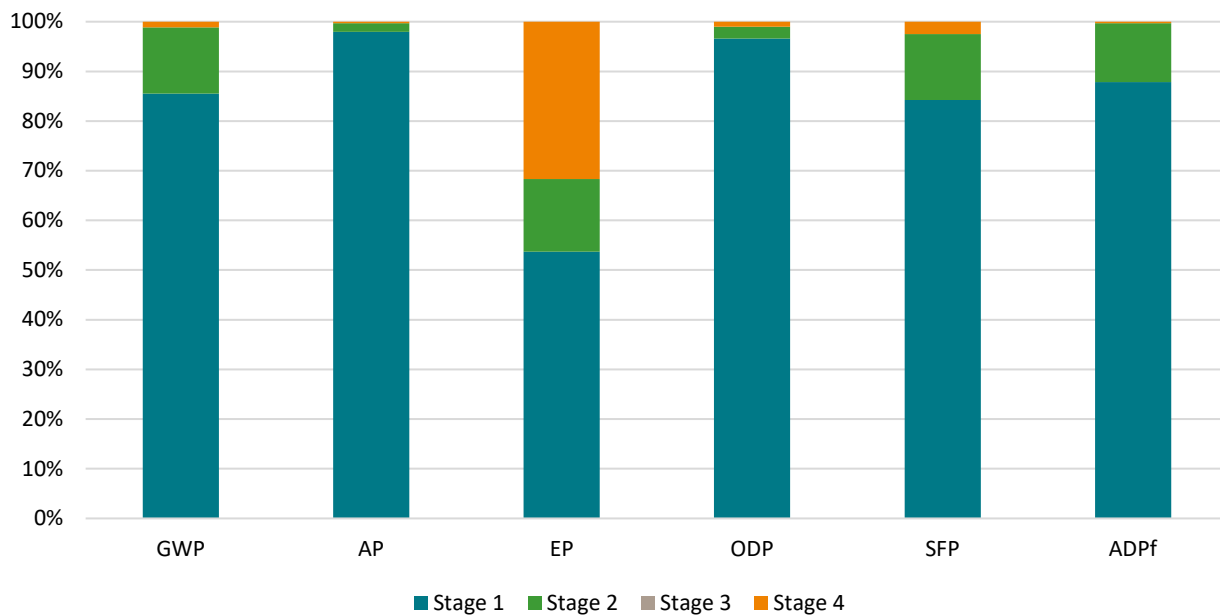


Figure 4. LCIA contribution results for 4450



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3.2. Life Cycle Inventory Results

Table 24. Total resource use results for every exterior paint product, per 1 m² for 60 years by design life

SKU	RPR _E MJ	RPR _M MJ	NRPR _E MJ	NRPR _M MJ	SM KG	RSF MJ	NRSF MJ	RE MJ	FW M ³
4450	1.51E+00	8.12E-02	1.71E+01	3.00E+00	1.57E-04	0	0	0	6.10E-03
4454	1.32E+00	8.54E-02	1.64E+01	2.92E+00	1.47E-04	0	0	0	5.26E-03
4453	9.64E-01	8.26E-02	1.29E+01	2.47E+00	1.53E-04	0	0	0	3.43E-03
5450	1.43E+00	8.45E-02	1.74E+01	3.13E+00	1.62E-04	0	0	0	6.07E-03
5454	1.22E+00	8.66E-02	1.64E+01	2.95E+00	1.46E-04	0	0	0	5.16E-03
5453	1.28E+00	8.28E-02	1.52E+01	3.21E+00	1.44E-04	0	0	0	4.20E-03
9450	1.42E+00	8.27E-02	1.73E+01	3.05E+00	1.59E-04	0	0	0	5.97E-03
9454	1.26E+00	8.15E-02	1.70E+01	3.04E+00	1.48E-04	0	0	0	5.27E-03
9453	1.25E+00	7.73E-02	1.52E+01	3.20E+00	1.50E-04	0	0	0	4.17E-03

Table 25. RPR_E results for every exterior paint product, for their design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	1.39E+00	1.06E-01	0.00E+00	1.61E-02	1.51E+00
4454	1.16E+00	1.44E-01	0.00E+00	1.52E-02	1.32E+00
4453	7.95E-01	1.54E-01	0.00E+00	1.46E-02	9.64E-01
5450	1.32E+00	9.98E-02	0.00E+00	1.45E-02	1.43E+00
5454	1.07E+00	1.36E-01	0.00E+00	1.36E-02	1.22E+00
5453	1.12E+00	1.45E-01	0.00E+00	1.26E-02	1.28E+00
9450	1.30E+00	1.01E-01	0.00E+00	1.50E-02	1.42E+00
9454	1.11E+00	1.38E-01	0.00E+00	1.45E-02	1.26E+00
9453	1.09E+00	1.49E-01	0.00E+00	1.39E-02	1.25E+00



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Table 26. RPRm results for every exterior paint product, for their design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	8.12E-02	0.00E+00	0.00E+00	0.00E+00	8.12E-02
4454	8.54E-02	0.00E+00	0.00E+00	0.00E+00	8.54E-02
4453	8.26E-02	0.00E+00	0.00E+00	0.00E+00	8.26E-02
5450	8.45E-02	0.00E+00	0.00E+00	0.00E+00	8.45E-02
5454	8.66E-02	0.00E+00	0.00E+00	0.00E+00	8.66E-02
5453	8.28E-02	0.00E+00	0.00E+00	0.00E+00	8.28E-02
9450	8.27E-02	0.00E+00	0.00E+00	0.00E+00	8.27E-02
9454	8.15E-02	0.00E+00	0.00E+00	0.00E+00	8.15E-02
9453	7.73E-02	0.00E+00	0.00E+00	0.00E+00	7.73E-02

Table 27. NRPRe results for every exterior paint product, for their design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	1.47E+01	2.30E+00	0.00E+00	5.78E-02	1.71E+01
4454	1.23E+01	4.00E+00	0.00E+00	5.17E-02	1.64E+01
4453	8.28E+00	4.56E+00	0.00E+00	4.51E-02	1.29E+01
5450	1.51E+01	2.22E+00	0.00E+00	4.01E-02	1.74E+01
5454	1.25E+01	3.88E+00	0.00E+00	3.77E-02	1.64E+01
5453	1.08E+01	4.39E+00	0.00E+00	3.14E-02	1.52E+01
9450	1.50E+01	2.24E+00	0.00E+00	4.64E-02	1.73E+01
9454	1.30E+01	3.90E+00	0.00E+00	4.64E-02	1.70E+01
9453	1.07E+01	4.44E+00	0.00E+00	4.16E-02	1.52E+01

Table 28. NRPRm results for every exterior paint product, for their design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	3.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E+00
4454	2.92E+00	0.00E+00	0.00E+00	0.00E+00	2.92E+00
4453	2.47E+00	0.00E+00	0.00E+00	0.00E+00	2.47E+00
5450	3.13E+00	0.00E+00	0.00E+00	0.00E+00	3.13E+00
5454	2.95E+00	0.00E+00	0.00E+00	0.00E+00	2.95E+00
5453	3.21E+00	0.00E+00	0.00E+00	0.00E+00	3.21E+00
9450	3.05E+00	0.00E+00	0.00E+00	0.00E+00	3.05E+00



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SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
9454	3.04E+00	0.00E+00	0.00E+00	0.00E+00	3.04E+00
9453	3.20E+00	0.00E+00	0.00E+00	0.00E+00	3.20E+00

Table 29. SM results for every exterior paint product, for their design life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	1.57E-04	0.00E+00	0.00E+00	0.00E+00	1.57E-04
4454	1.47E-04	0.00E+00	0.00E+00	0.00E+00	1.47E-04
4453	1.53E-04	0.00E+00	0.00E+00	0.00E+00	1.53E-04
5450	1.62E-04	0.00E+00	0.00E+00	0.00E+00	1.62E-04
5454	1.46E-04	0.00E+00	0.00E+00	0.00E+00	1.46E-04
5453	1.44E-04	0.00E+00	0.00E+00	0.00E+00	1.44E-04
9450	1.59E-04	0.00E+00	0.00E+00	0.00E+00	1.59E-04
9454	1.48E-04	0.00E+00	0.00E+00	0.00E+00	1.48E-04
9453	1.50E-04	0.00E+00	0.00E+00	0.00E+00	1.50E-04

Table 30. FW results for every exterior paint product, for their design life (m³)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	5.46E-03	6.35E-04	0.00E+00	4.43E-06	6.10E-03
4454	4.26E-03	9.92E-04	0.00E+00	4.26E-06	5.26E-03
4453	2.32E-03	1.11E-03	0.00E+00	3.15E-06	3.43E-03
5450	5.46E-03	6.03E-04	0.00E+00	2.21E-06	6.07E-03
5454	4.20E-03	9.54E-04	0.00E+00	2.62E-06	5.16E-03
5453	3.14E-03	1.06E-03	0.00E+00	1.76E-06	4.20E-03
9450	5.36E-03	6.11E-04	0.00E+00	3.01E-06	5.97E-03
9454	4.30E-03	9.68E-04	0.00E+00	3.41E-06	5.27E-03
9453	3.08E-03	1.08E-03	0.00E+00	2.57E-06	4.17E-03



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Table 31. Total Resource use results for every exterior paint product, per 1 m² for 60 years by market life

SKU	RPR _E MJ	RPR _M MJ	NRPR _E MJ	NRPR _M MJ	SM KG	RSF MJ	NRSF MJ	RE MJ	FW M ³
4450	3.03E+00	1.62E-01	3.42E+01	6.00E+00	3.14E-04	0	0	0	1.22E-02
4454	2.63E+00	1.71E-01	3.28E+01	5.84E+00	2.94E-04	0	0	0	1.05E-02
4453	1.93E+00	1.65E-01	2.58E+01	4.94E+00	3.05E-04	0	0	0	6.86E-03
5450	2.86E+00	1.69E-01	3.48E+01	6.26E+00	3.24E-04	0	0	0	1.21E-02
5454	2.44E+00	1.73E-01	3.28E+01	5.89E+00	2.92E-04	0	0	0	1.03E-02
5453	2.55E+00	1.66E-01	3.04E+01	6.41E+00	2.88E-04	0	0	0	8.40E-03
9450	2.83E+00	1.65E-01	3.45E+01	6.11E+00	3.18E-04	0	0	0	1.19E-02
9454	2.52E+00	1.63E-01	3.39E+01	6.08E+00	2.95E-04	0	0	0	1.05E-02
9453	2.50E+00	1.55E-01	3.04E+01	6.39E+00	3.00E-04	0	0	0	8.33E-03

Table 32. RPR_E results for every exterior paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	2.78E+00	2.12E-01	0.00E+00	3.23E-02	3.03E+00
4454	2.32E+00	2.87E-01	0.00E+00	3.03E-02	2.63E+00
4453	1.59E+00	3.08E-01	0.00E+00	2.91E-02	1.93E+00
5450	2.63E+00	2.00E-01	0.00E+00	2.89E-02	2.86E+00
5454	2.14E+00	2.73E-01	0.00E+00	2.71E-02	2.44E+00
5453	2.24E+00	2.90E-01	0.00E+00	2.53E-02	2.55E+00
9450	2.60E+00	2.03E-01	0.00E+00	2.99E-02	2.83E+00
9454	2.22E+00	2.77E-01	0.00E+00	2.89E-02	2.52E+00
9453	2.18E+00	2.97E-01	0.00E+00	2.77E-02	2.50E+00

Table 33. RPR_M results for every exterior paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	1.62E-01	0.00E+00	0.00E+00	0.00E+00	1.62E-01
4454	1.71E-01	0.00E+00	0.00E+00	0.00E+00	1.71E-01
4453	1.65E-01	0.00E+00	0.00E+00	0.00E+00	1.65E-01
5450	1.69E-01	0.00E+00	0.00E+00	0.00E+00	1.69E-01



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SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
5454	1.73E-01	0.00E+00	0.00E+00	0.00E+00	1.73E-01
5453	1.66E-01	0.00E+00	0.00E+00	0.00E+00	1.66E-01
9450	1.65E-01	0.00E+00	0.00E+00	0.00E+00	1.65E-01
9454	1.63E-01	0.00E+00	0.00E+00	0.00E+00	1.63E-01
9453	1.55E-01	0.00E+00	0.00E+00	0.00E+00	1.55E-01

Table 34. NRPR_e results for every exterior paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	2.94E+01	4.60E+00	0.00E+00	1.16E-01	3.42E+01
4454	2.47E+01	7.99E+00	0.00E+00	1.03E-01	3.28E+01
4453	1.66E+01	9.12E+00	0.00E+00	9.02E-02	2.58E+01
5450	3.03E+01	4.43E+00	0.00E+00	8.02E-02	3.48E+01
5454	2.50E+01	7.75E+00	0.00E+00	7.55E-02	3.28E+01
5453	2.15E+01	8.78E+00	0.00E+00	6.28E-02	3.04E+01
9450	3.00E+01	4.47E+00	0.00E+00	9.28E-02	3.45E+01
9454	2.60E+01	7.80E+00	0.00E+00	9.29E-02	3.39E+01
9453	2.14E+01	8.89E+00	0.00E+00	8.32E-02	3.04E+01

Table 35. NRPR_m results for every exterior paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	6.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E+00
4454	5.84E+00	0.00E+00	0.00E+00	0.00E+00	5.84E+00
4453	4.94E+00	0.00E+00	0.00E+00	0.00E+00	4.94E+00
5450	6.26E+00	0.00E+00	0.00E+00	0.00E+00	6.26E+00
5454	5.89E+00	0.00E+00	0.00E+00	0.00E+00	5.89E+00
5453	6.41E+00	0.00E+00	0.00E+00	0.00E+00	6.41E+00
9450	6.11E+00	0.00E+00	0.00E+00	0.00E+00	6.11E+00
9454	6.08E+00	0.00E+00	0.00E+00	0.00E+00	6.08E+00
9453	6.39E+00	0.00E+00	0.00E+00	0.00E+00	6.39E+00



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Table 36. SM results for every exterior paint product, per 1 m² for 60 years by market life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	3.14E-04	0.00E+00	0.00E+00	0.00E+00	3.14E-04
4454	2.94E-04	0.00E+00	0.00E+00	0.00E+00	2.94E-04
4453	3.05E-04	0.00E+00	0.00E+00	0.00E+00	3.05E-04
5450	3.24E-04	0.00E+00	0.00E+00	0.00E+00	3.24E-04
5454	2.92E-04	0.00E+00	0.00E+00	0.00E+00	2.92E-04
5453	2.88E-04	0.00E+00	0.00E+00	0.00E+00	2.88E-04
9450	3.18E-04	0.00E+00	0.00E+00	0.00E+00	3.18E-04
9454	2.95E-04	0.00E+00	0.00E+00	0.00E+00	2.95E-04
9453	3.00E-04	0.00E+00	0.00E+00	0.00E+00	3.00E-04

Table 37. FW results for every exterior paint product, per 1 m² for 60 years by market life (m³)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	1.09E-02	1.27E-03	0.00E+00	8.86E-06	1.22E-02
4454	8.52E-03	1.98E-03	0.00E+00	8.53E-06	1.05E-02
4453	4.64E-03	2.22E-03	0.00E+00	6.30E-06	6.86E-03
5450	1.09E-02	1.21E-03	0.00E+00	4.42E-06	1.21E-02
5454	8.40E-03	1.91E-03	0.00E+00	5.25E-06	1.03E-02
5453	6.28E-03	2.12E-03	0.00E+00	3.52E-06	8.40E-03
9450	1.07E-02	1.22E-03	0.00E+00	6.03E-06	1.19E-02
9454	8.60E-03	1.94E-03	0.00E+00	6.83E-06	1.05E-02
9453	6.16E-03	2.17E-03	0.00E+00	5.14E-06	8.33E-03

Table 38. Total output and waste results for every exterior paint product, per 1 m² for 60 years by design life

SKU	HWD %	NHWD %
4450	0.14%	99.86%
4454	0.08%	99.92%
4453	0.04%	99.96%
5450	0.09%	99.91%
5454	0.06%	99.94%
5453	0.06%	99.94%
9450	0.12%	99.88%



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SKU	HWD %	NHWD %
9454	0.10%	99.90%
9453	0.09%	99.91%

Table 39. Waste results for every exterior paint product, per 1 m² for 60 years by design life

SKU	Waste	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	HWD	10.34%	0.00%	0.00%	0.00%	0.14%
	NHWD	89.66%	0.00%	0.00%	100.00%	99.86%
4454	HWD	4.96%	0.00%	0.00%	0.00%	0.08%
	NHWD	95.04%	0.00%	0.00%	100.00%	99.92%
4453	HWD	2.86%	0.00%	0.00%	0.00%	0.04%
	NHWD	97.14%	0.00%	0.00%	100.00%	99.96%
5450	HWD	6.48%	0.00%	0.00%	0.00%	0.09%
	NHWD	93.52%	0.00%	0.00%	100.00%	99.91%
5454	HWD	3.81%	0.00%	0.00%	0.00%	0.06%
	NHWD	96.19%	0.00%	0.00%	100.00%	99.94%
5453	HWD	3.70%	0.00%	0.00%	0.00%	0.06%
	NHWD	96.30%	0.00%	0.00%	100.00%	99.94%
9450	HWD	8.60%	0.00%	0.00%	0.00%	0.12%
	NHWD	91.40%	0.00%	0.00%	100.00%	99.88%
9454	HWD	6.73%	0.00%	0.00%	0.00%	0.10%
	NHWD	93.27%	0.00%	0.00%	100.00%	99.90%
9453	HWD	6.15%	0.00%	0.00%	0.00%	0.09%
	NHWD	93.85%	0.00%	0.00%	100.00%	99.91%

Table 40. Total output and waste results for every exterior paint product, per 1 m² for 60 years by market life

SKU	HWD %	NHWD %
4450	0.14%	99.86%
4454	0.08%	99.92%
4453	0.04%	99.96%
5450	0.09%	99.91%
5454	0.06%	99.94%



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SKU	HWD %	NHWD %
5453	0.06%	99.94%
9450	0.12%	99.88%
9454	0.10%	99.90%
9453	0.09%	99.91%

Table 41. Waste results for every exterior paint product, per 1 m² for 60 years by market life

SKU	Waste	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	HWD	10.34%	0.00%	0.00%	0.00%	0.14%
	NHWD	89.66%	0.00%	0.00%	100.00%	99.86%
4454	HWD	4.96%	0.00%	0.00%	0.00%	0.08%
	NHWD	95.04%	0.00%	0.00%	100.00%	99.92%
4453	HWD	2.86%	0.00%	0.00%	0.00%	0.04%
	NHWD	97.14%	0.00%	0.00%	100.00%	99.96%
5450	HWD	6.48%	0.00%	0.00%	0.00%	0.09%
	NHWD	93.52%	0.00%	0.00%	100.00%	99.91%
5454	HWD	3.81%	0.00%	0.00%	0.00%	0.06%
	NHWD	96.19%	0.00%	0.00%	100.00%	99.94%
5453	HWD	3.70%	0.00%	0.00%	0.00%	0.06%
	NHWD	96.30%	0.00%	0.00%	100.00%	99.94%
9450	HWD	8.60%	0.00%	0.00%	0.00%	0.12%
	NHWD	91.40%	0.00%	0.00%	100.00%	99.88%
9454	HWD	6.73%	0.00%	0.00%	0.00%	0.10%
	NHWD	93.27%	0.00%	0.00%	100.00%	99.90%
9453	HWD	6.15%	0.00%	0.00%	0.00%	0.09%
	NHWD	93.85%	0.00%	0.00%	100.00%	99.91%



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Table 42. Energy resource use results for every exterior paint product, per 1 m² for 60 years by design life

SKU	BIO-ENERGY MJ	FOSSIL ENERGY MJ	HYDRO/WIND ENERGY MJ	NUCLEAR ENERGY MJ	OTHER ENERGY MJ	NON-RENEWABLE RESOURCES kg	RENEWABLE RESOURCES kg
4450	2.47E-09	1.91E+01	5.85E-01	1.02E+00	1.01E+00	5.19E-01	-4.02E-08
4454	2.28E-09	1.85E+01	4.98E-01	8.51E-01	9.04E-01	5.11E-01	-3.73E-08
4453	2.26E-09	1.48E+01	3.30E-01	5.15E-01	7.17E-01	4.13E-01	-3.79E-08
5450	2.54E-09	1.95E+01	5.74E-01	1.02E+00	9.41E-01	5.29E-01	-4.14E-08
5454	2.26E-09	1.85E+01	4.81E-01	8.28E-01	8.23E-01	5.11E-01	-3.71E-08
5453	2.27E-09	1.78E+01	4.60E-01	6.31E-01	8.99E-01	4.88E-01	-3.62E-08
9450	2.50E-09	1.93E+01	5.67E-01	1.01E+00	9.31E-01	5.23E-01	-4.06E-08
9454	2.29E-09	1.91E+01	4.95E-01	8.53E-01	8.48E-01	5.26E-01	-3.75E-08
9453	2.34E-09	1.78E+01	4.51E-01	6.23E-01	8.77E-01	4.90E-01	-3.76E-08

Table 43. Bio-energy results for every exterior paint product, per 1 m² for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	2.20E-09	-3.12E-12	0.00E+00	2.74E-10	2.47E-09
4454	2.02E-09	-3.54E-12	0.00E+00	2.56E-10	2.28E-09
4453	2.00E-09	-3.52E-12	0.00E+00	2.65E-10	2.26E-09
5450	2.26E-09	-2.93E-12	0.00E+00	2.82E-10	2.54E-09
5454	2.01E-09	-3.31E-12	0.00E+00	2.54E-10	2.26E-09
5453	2.02E-09	-3.22E-12	0.00E+00	2.50E-10	2.27E-09
9450	2.22E-09	-2.97E-12	0.00E+00	2.77E-10	2.50E-09
9454	2.04E-09	-3.32E-12	0.00E+00	2.57E-10	2.29E-09
9453	2.08E-09	-3.27E-12	0.00E+00	2.61E-10	2.34E-09

Table 44. Fossil energy results for every exterior paint product, per 1 m² for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	1.67E+01	2.26E+00	0.00E+00	5.73E-02	1.91E+01
4454	1.45E+01	3.92E+00	0.00E+00	5.17E-02	1.85E+01
4453	1.03E+01	4.46E+00	0.00E+00	4.52E-02	1.48E+01



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SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
5450	1.73E+01	2.18E+00	0.00E+00	4.03E-02	1.95E+01
5454	1.47E+01	3.80E+00	0.00E+00	3.82E-02	1.85E+01
5453	1.34E+01	4.29E+00	0.00E+00	3.20E-02	1.78E+01
9450	1.71E+01	2.20E+00	0.00E+00	4.63E-02	1.93E+01
9454	1.53E+01	3.82E+00	0.00E+00	4.64E-02	1.91E+01
9453	1.34E+01	4.35E+00	0.00E+00	4.16E-02	1.78E+01

Table 45. Hydro/ Wind energy results every exterior paint product, per 1 m² for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	5.62E-01	1.93E-02	0.00E+00	3.38E-03	5.85E-01
4454	4.55E-01	4.02E-02	0.00E+00	3.01E-03	4.98E-01
4453	2.79E-01	4.77E-02	0.00E+00	2.86E-03	3.30E-01
5450	5.53E-01	1.89E-02	0.00E+00	2.83E-03	5.74E-01
5454	4.39E-01	3.95E-02	0.00E+00	2.53E-03	4.81E-01
5453	4.11E-01	4.65E-02	0.00E+00	2.32E-03	4.60E-01
9450	5.45E-01	1.90E-02	0.00E+00	3.01E-03	5.67E-01
9454	4.52E-01	3.97E-02	0.00E+00	2.88E-03	4.95E-01
9453	4.01E-01	4.70E-02	0.00E+00	2.76E-03	4.51E-01

Table 46. Nuclear energy results for every exterior paint product, per 1 m² for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	9.82E-01	3.84E-02	0.00E+00	4.93E-04	1.02E+00
4454	7.69E-01	8.17E-02	0.00E+00	1.75E-06	8.51E-01
4453	4.18E-01	9.72E-02	0.00E+00	-9.53E-05	5.15E-01
5450	9.80E-01	3.76E-02	0.00E+00	-1.69E-04	1.02E+00
5454	7.49E-01	8.03E-02	0.00E+00	-4.91E-04	8.28E-01
5453	5.37E-01	9.49E-02	0.00E+00	-5.73E-04	6.31E-01
9450	9.68E-01	3.78E-02	0.00E+00	8.92E-05	1.01E+00
9454	7.72E-01	8.07E-02	0.00E+00	7.72E-06	8.53E-01
9453	5.27E-01	9.60E-02	0.00E+00	4.98E-06	6.23E-01



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Table 47. Other energy results for every exterior paint product, per 1 m² for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	9.11E-01	8.67E-02	0.00E+00	1.28E-02	1.01E+00
4454	7.89E-01	1.03E-01	0.00E+00	1.21E-02	9.04E-01
4453	5.99E-01	1.07E-01	0.00E+00	1.17E-02	7.17E-01
5450	8.49E-01	8.09E-02	0.00E+00	1.16E-02	9.41E-01
5454	7.15E-01	9.69E-02	0.00E+00	1.10E-02	8.23E-01
5453	7.90E-01	9.83E-02	0.00E+00	1.03E-02	8.99E-01
9450	8.37E-01	8.24E-02	0.00E+00	1.20E-02	9.31E-01
9454	7.37E-01	9.87E-02	0.00E+00	1.16E-02	8.48E-01
9453	7.65E-01	1.02E-01	0.00E+00	1.11E-02	8.77E-01

Table 48. Non-renewable energy resource results every exterior paint product, per 1 m² for 60 years by design life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	4.44E-01	7.25E-02	0.00E+00	1.71E-03	5.19E-01
4454	3.82E-01	1.27E-01	0.00E+00	1.59E-03	5.11E-01
4453	2.67E-01	1.45E-01	0.00E+00	1.39E-03	4.13E-01
5450	4.58E-01	6.98E-02	0.00E+00	1.24E-03	5.29E-01
5454	3.87E-01	1.23E-01	0.00E+00	1.22E-03	5.11E-01
5453	3.48E-01	1.40E-01	0.00E+00	1.03E-03	4.88E-01
9450	4.51E-01	7.04E-02	0.00E+00	1.41E-03	5.23E-01
9454	4.01E-01	1.24E-01	0.00E+00	1.42E-03	5.26E-01
9453	3.47E-01	1.41E-01	0.00E+00	1.27E-03	4.90E-01

Table 49. Renewable energy resource results for every exterior paint product, per 1 m² for 60 years by design life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	7.61E-09	3.92E-12	0.00E+00	-4.78E-08	-4.02E-08
4454	7.33E-09	3.47E-11	0.00E+00	-4.46E-08	-3.73E-08
4453	8.45E-09	4.69E-11	0.00E+00	-4.64E-08	-3.79E-08
5450	7.84E-09	4.99E-12	0.00E+00	-4.93E-08	-4.14E-08
5454	7.27E-09	3.55E-11	0.00E+00	-4.44E-08	-3.71E-08
5453	7.60E-09	4.76E-11	0.00E+00	-4.38E-08	-3.62E-08
9450	7.69E-09	4.75E-12	0.00E+00	-4.83E-08	-4.06E-08



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SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
9454	7.36E-09	3.56E-11	0.00E+00	-4.49E-08	-3.75E-08
9453	7.99E-09	4.78E-11	0.00E+00	-4.56E-08	-3.76E-08

Table 50. Energy resource use results for every exterior paint product, per 1 m² for 60 years by market life

SKU	BIO ENERGY	FOSSIL ENERGY	HYDRO/WIND ENERGY	NUCLEAR ENERGY	OTHER RENEWABLE ENERGY	NON-RENEWABLE ENERGY RESOURCES	RENEWABLE ENERGY RESOURCES
	MJ	MJ	MJ	MJ	MJ	KG	KG
4450	4.95E-09	3.81E+01	1.17E+00	2.04E+00	2.02E+00	1.04E+00	-8.03E-08
4454	4.55E-09	3.69E+01	9.96E-01	1.70E+00	1.81E+00	1.02E+00	-7.45E-08
4453	4.53E-09	2.97E+01	6.59E-01	1.03E+00	1.43E+00	8.26E-01	-7.58E-08
5450	5.08E-09	3.90E+01	1.15E+00	2.04E+00	1.88E+00	1.06E+00	-8.29E-08
5454	4.53E-09	3.71E+01	9.63E-01	1.66E+00	1.65E+00	1.02E+00	-7.41E-08
5453	4.53E-09	3.55E+01	9.20E-01	1.26E+00	1.80E+00	9.77E-01	-7.24E-08
9450	4.99E-09	3.86E+01	1.13E+00	2.01E+00	1.86E+00	1.05E+00	-8.13E-08
9454	4.59E-09	3.83E+01	9.90E-01	1.71E+00	1.70E+00	1.05E+00	-7.50E-08
9453	4.68E-09	3.55E+01	9.01E-01	1.25E+00	1.75E+00	9.79E-01	-7.52E-08

Table 51. Bio-energy results for every exterior paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	4.41E-09	-6.23E-12	0.00E+00	5.47E-10	4.95E-09
4454	4.05E-09	-7.09E-12	0.00E+00	5.11E-10	4.55E-09
4453	4.00E-09	-7.04E-12	0.00E+00	5.31E-10	4.53E-09
5450	4.53E-09	-5.86E-12	0.00E+00	5.64E-10	5.08E-09
5454	4.03E-09	-6.62E-12	0.00E+00	5.07E-10	4.53E-09
5453	4.04E-09	-6.45E-12	0.00E+00	5.01E-10	4.53E-09
9450	4.44E-09	-5.94E-12	0.00E+00	5.53E-10	4.99E-09
9454	4.08E-09	-6.64E-12	0.00E+00	5.14E-10	4.59E-09
9453	4.16E-09	-6.55E-12	0.00E+00	5.22E-10	4.68E-09



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Table 52. Fossil energy results for every exterior paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	3.35E+01	4.53E+00	0.00E+00	1.15E-01	3.81E+01
4454	2.90E+01	7.83E+00	0.00E+00	1.03E-01	3.69E+01
4453	2.07E+01	8.92E+00	0.00E+00	9.04E-02	2.97E+01
5450	3.46E+01	4.36E+00	0.00E+00	8.05E-02	3.90E+01
5454	2.94E+01	7.59E+00	0.00E+00	7.64E-02	3.71E+01
5453	2.69E+01	8.59E+00	0.00E+00	6.40E-02	3.55E+01
9450	3.41E+01	4.40E+00	0.00E+00	9.26E-02	3.86E+01
9454	3.06E+01	7.64E+00	0.00E+00	9.29E-02	3.83E+01
9453	2.68E+01	8.70E+00	0.00E+00	8.32E-02	3.55E+01

Table 53. Hydro/ Wind energy results for every exterior paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	1.12E+00	3.87E-02	0.00E+00	6.76E-03	1.17E+00
4454	9.10E-01	8.05E-02	0.00E+00	6.02E-03	9.96E-01
4453	5.58E-01	9.53E-02	0.00E+00	5.72E-03	6.59E-01
5450	1.11E+00	3.77E-02	0.00E+00	5.65E-03	1.15E+00
5454	8.79E-01	7.89E-02	0.00E+00	5.07E-03	9.63E-01
5453	8.22E-01	9.30E-02	0.00E+00	4.65E-03	9.20E-01
9450	1.09E+00	3.80E-02	0.00E+00	6.03E-03	1.13E+00
9454	9.04E-01	7.94E-02	0.00E+00	5.76E-03	9.90E-01
9453	8.02E-01	9.40E-02	0.00E+00	5.53E-03	9.01E-01

Table 54. Nuclear energy results for every exterior paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	1.96E+00	7.68E-02	0.00E+00	9.87E-04	2.04E+00
4454	1.54E+00	1.63E-01	0.00E+00	3.51E-06	1.70E+00
4453	8.37E-01	1.94E-01	0.00E+00	-1.91E-04	1.03E+00
5450	1.96E+00	7.52E-02	0.00E+00	-3.39E-04	2.04E+00
5454	1.50E+00	1.61E-01	0.00E+00	-9.83E-04	1.66E+00
5453	1.07E+00	1.90E-01	0.00E+00	-1.15E-03	1.26E+00
9450	1.94E+00	7.56E-02	0.00E+00	1.78E-04	2.01E+00



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SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
9454	1.54E+00	1.61E-01	0.00E+00	1.54E-05	1.71E+00
9453	1.05E+00	1.92E-01	0.00E+00	9.95E-06	1.25E+00

Table 55. Other energy results for every exterior paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	1.82E+00	1.73E-01	0.00E+00	2.55E-02	2.02E+00
4454	1.58E+00	2.07E-01	0.00E+00	2.43E-02	1.81E+00
4453	1.20E+00	2.13E-01	0.00E+00	2.34E-02	1.43E+00
5450	1.70E+00	1.62E-01	0.00E+00	2.33E-02	1.88E+00
5454	1.43E+00	1.94E-01	0.00E+00	2.20E-02	1.65E+00
5453	1.58E+00	1.97E-01	0.00E+00	2.06E-02	1.80E+00
9450	1.67E+00	1.65E-01	0.00E+00	2.39E-02	1.86E+00
9454	1.47E+00	1.97E-01	0.00E+00	2.32E-02	1.70E+00
9453	1.53E+00	2.03E-01	0.00E+00	2.22E-02	1.75E+00

Table 56. Non-renewable resource results for every exterior paint product, per 1 m² for 60 years by market life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	8.89E-01	1.45E-01	0.00E+00	3.42E-03	1.04E+00
4454	7.65E-01	2.54E-01	0.00E+00	3.18E-03	1.02E+00
4453	5.34E-01	2.90E-01	0.00E+00	2.78E-03	8.26E-01
5450	9.15E-01	1.40E-01	0.00E+00	2.48E-03	1.06E+00
5454	7.73E-01	2.46E-01	0.00E+00	2.43E-03	1.02E+00
5453	6.95E-01	2.79E-01	0.00E+00	2.06E-03	9.77E-01
9450	9.03E-01	1.41E-01	0.00E+00	2.81E-03	1.05E+00
9454	8.02E-01	2.47E-01	0.00E+00	2.84E-03	1.05E+00
9453	6.94E-01	2.83E-01	0.00E+00	2.54E-03	9.79E-01





Table 57. Renewable resource results for every exterior paint product, per 1 m² for 60 years by market life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
4450	1.52E-08	7.85E-12	0.00E+00	-9.56E-08	-8.03E-08
4454	1.47E-08	6.93E-11	0.00E+00	-8.93E-08	-7.45E-08
4453	1.69E-08	9.38E-11	0.00E+00	-9.28E-08	-7.58E-08
5450	1.57E-08	9.98E-12	0.00E+00	-9.86E-08	-8.29E-08
5454	1.45E-08	7.10E-11	0.00E+00	-8.88E-08	-7.41E-08
5453	1.52E-08	9.53E-11	0.00E+00	-8.77E-08	-7.24E-08
9450	1.54E-08	9.49E-12	0.00E+00	-9.67E-08	-8.13E-08
9454	1.47E-08	7.11E-11	0.00E+00	-8.98E-08	-7.50E-08
9453	1.60E-08	9.55E-11	0.00E+00	-9.13E-08	-7.52E-08

4. Additional Environmental Information

4.1. Environmental Activities and Certifications



GREENGUARD Certification

BEHR MARQUEE® Exterior products are GREENGUARD and GREENGUARD Gold Certified. This third-party certification assures our paints are low-emitting and contribute to healthy indoor environments.

GREENGUARD Certification establishes acceptable indoor air standards for indoor products, environments, and buildings. GREENGUARD Gold Certification offers stricter certification criteria, considers safety factors to account for sensitive individuals (such as children and the elderly), and ensures that a product is acceptable for use in environments such as schools and healthcare facilities.

GREENGUARD certified products are referenced standards in numerous sustainable building initiatives including Leadership in Energy and Environmental Design (LEED®), Collaborative for High Performance Schools (CHPS), Green Guide for Health Care (GGHC), Sustainable Building Industry Council (SBIC) and many others. For more information on the GREENGUARD Certification Program emission standards visit greenguard.org.

4.2. Further Information

For further information visit behr.com and kilz.com.





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According to ISO 14025,
ISO 21930

5. References

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6. Contact Information

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6.2. LCA Practitioner

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