

## ENVIRONMENTAL PRODUCT DECLARATION

# BEHR PREMIUM® DIRECT-TO-METAL PAINT

INTERIOR/EXTERIOR PAINT



Shown above: BEHR PREMIUM® Direct-to-Metal Paint is a GREENGUARD® Gold certified, water-based coating formulated to provide excellent adhesion and corrosion resistance.

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.

**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](http://behr.com) and [kilz.com](http://kilz.com)





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BEHR PREMIUM® Direct-To-Metal Paint

According to ISO 14025,  
and ISO21930

|   |  |                               |
|---|--|-------------------------------|
| EPD PROGRAM AND PROGRAM OPERATOR NAME, ADDRESS, LOGO, AND WEBSITE   | UL Solutions<br>333 Pfingsten Rd, Northbrook IL, 60062   | www.ul.com<br>www.spot.ul.com |
| GENERAL PROGRAM INSTRUCTIONS AND VERSION NUMBER   | Program Operator Rules v 2.7 2022  |                               |
| MANUFACTURER NAME AND ADDRESS   | Behr Process LLC<br>1801 E St Andrew Pl, Santa Ana, CA 92705   |                               |
| DECLARATION NUMBER  | 4791080617.105.1   |                               |
| DECLARED PRODUCT & FUNCTIONAL UNIT OR DECLARED UNIT   | 1m <sup>2</sup> 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  | Interior/Exterior Paint  |                               |
| PRODUCT RSL DESCRIPTION (IF APPL.)  | Int: 5 years market life and 7 years design life used over a 60 year estimated building life<br>Ext: 10 years market life and 10 years design life used over a 60 year estimated building life |                               |
| MARKETS OF APPLICABILITY  | North America  |                               |
| DATE OF ISSUE   | August 12, 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   |                               |
|   | <a href="mailto:ncss@nsf.org">ncss@nsf.org</a>   |                               |
| This declaration was independently verified in accordance with ISO 14025: 2006.<br><input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL | <br>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:  | <br>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 PREMIUM® Direct-To-Metal Paint is an interior/exterior water-based coating formulated to provide excellent adhesion and corrosion resistance. Designed for use in residential, commercial, and light industrial settings, this coating may be applied directly to properly prepared ferrous metal surfaces. It is also suitable for use on primed wood, drywall and masonry substrates. BEHR PREMIUM® Direct-To-Metal Paint is GREENGUARD® GOLD certified offering a line of coatings that meet or exceed environmental and performance requirements. This product line includes: 3200 Semi-Gloss, 7200 Eggshell and is available in gallon and 5-gallon sized containers. Tint bases are offered in: White and Deep, to allow custom tinting to a full range of colors.

#### Product Specification

Table 1. Specifications for BEHR PREMIUM® Direct-To-Metal Paint

| SKU      | FILL /<br>MAX TINT<br>LOAD | GLOSS<br>@ 60° | SHEEN<br>@ 85° | RESIN TYPE | % SOLIDS<br>BY VOLUME | % SOLIDS<br>BY WEIGHT | FILM<br>THICKNESS<br>@ 350<br>SQ FT/GL | FILM<br>THICKNESS<br>@ 400<br>SQ FT/GL | VISCOSITY<br>(KU) |
|----------|----------------------------|----------------|----------------|------------|-----------------------|-----------------------|--|--|-------------------|
| 3200 I/E | 124 fl oz<br>6 fl oz       | 45 – 55        | -              | Acrylic    | 33% ± 2%              | 45% ± 2%              | Wet: 4.6 mils<br>Dry: 1.5 mils         | Wet: 4.0 mils<br>Dry: 1.3 mils         | 95 – 105          |
| 3230 I/E | 116 fl oz<br>10 fl oz      | 45 – 55        | -              | Acrylic    | 33% ± 2%              | 45% ± 2%              | Wet: 4.6 mils<br>Dry: 1.5 mils         | Wet: 4.0 mils<br>Dry: 1.3 mils         | 95 – 105          |
| 7200 I/E | 124 fl oz<br>6 fl oz       | 10 – 20        | -              | Acrylic    | 35% ± 2%              | 48% ± 2%              | Wet: 4.6 mils<br>Dry: 1.6 mils         | Wet: 4.0 mils<br>Dry: 1.4 mils         | 95 – 105          |



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| SKU      | FILL /<br>MAX TINT<br>LOAD | GLOSS<br>@ 60° | SHEEN<br>@ 85° | RESIN TYPE | % SOLIDS<br>BY VOLUME | % SOLIDS<br>BY WEIGHT | FILM<br>THICKNESS<br>@ 350<br>SQ FT/GL | FILM<br>THICKNESS<br>@ 400<br>SQ FT/GL | VISCOSITY<br>(KU) |
|----------|----------------------------|----------------|----------------|------------|-----------------------|-----------------------|--|--|-------------------|
| 7230 I/E | 116 fl oz<br>10 fl oz      | 10 – 20        | -              | Acrylic    | 35% ± 2%              | 48% ± 2%              | Wet: 4.6 mils<br>Dry: 1.6 mils         | Wet: 4.0 mils<br>Dry: 1.4 mils         | 95 – 105          |

## 1.3. Application

Recommended application information for BEHR PREMIUM® Direct-To-Metal Paint is as follows:

**Brush:** High Quality Synthetic

**Roller:** 1/4" – 3/8" nap roller cover, depending on surface texture

**Airless Spray:**

**Tip:** .013" - .017"

**Filter:** 60 mesh

**Fluid Pressure:** 1,400 – 2,400 psi

**Thinning:** Not recommended. Product is formulated for use at package consistency only.

The VOC emissions associated with each SKU after application are all <0.22 mg/m<sup>3</sup>. 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.

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

|                       | 3200 I/E | 3230 I/E | 7200 I/E | 7230 I/E |
|-----------------------|----------|----------|----------|----------|
| VOC<br>(g/L of paint) | 46.91    | 43.35    | 43.15    | 41.36    |





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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 4.

Table 3. Material composition range in weight % for BEHR PREMIUM® Direct-To-Metal Semi-Gloss Paint

| MATERIAL- SEMI-GLOSS | 3200 I/E | 3230 I/E |
|----------------------|----------|----------|
| Resin/Binder         | 50 – 55% | 60 – 65% |
| Additive             | 1 – 5%   | 1 – 5%   |
| Biocide              | 0.1 – 1% | 0.1 – 1% |
| Extender Pigment     | 1 – 5%   | 5 – 10%  |
| Pigment (TiO2)       | 20 – 25% | -        |
| Solvent              | 0.1 – 1% | 0.1 – 1% |
| Water                | 15 – 20% | 20 – 25% |

Table 4. Material composition range in weight % for BEHR PREMIUM® Direct-To-Metal Eggshell Paint

| MATERIAL- EGGSHELL | 7200 I/E  | 7230 I/E |
|--------------------|-----------|----------|
| Resin/Binder       | 45 – 50%  | 55 – 60% |
| Additive           | 1 – 5%    | 1 – 5%   |
| Biocide            | 0.1 – 1%  | 0.1 – 1% |
| Extender Pigment   | 5 – 10%   | 10 – 15% |
| Pigment (TiO2)     | 20 – 25 % | -        |
| Solvent            | 0.1 – 1%  | 0.1 – 1% |
| Water              | 15 – 20%  | 20 – 25% |

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 jars, cans, and/or pails, which are then labeled, boxed, and loaded onto pallets for distribution.





Flow Diagram

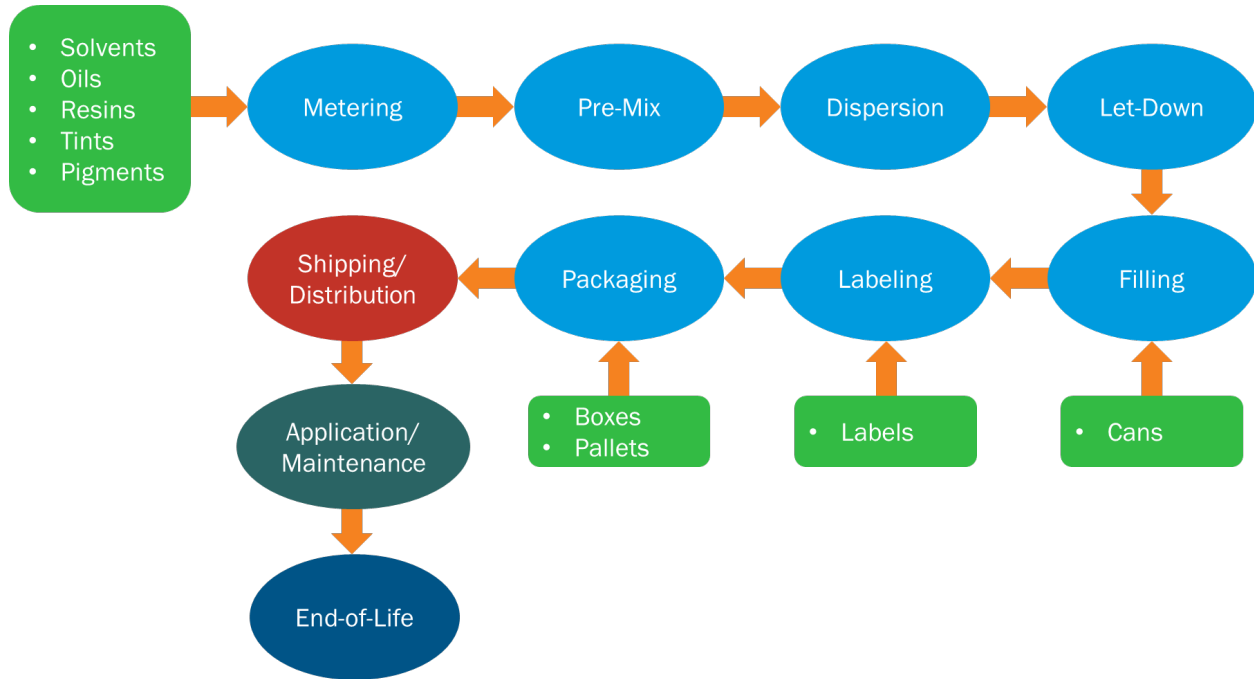


Figure 1. Flow diagram for cradle-to-grave LCA of BEHR PREMIUM® Direct-To-Metal Paint.

1.6. Packaging

Table 5 provides descriptions, volumes, and materials for the primary paint packaging used for BEHR PREMIUM® Direct-To-Metal Paint. These packages are then placed in cardboard boxes and loaded onto heat-treated wooden pallets for distribution.

Table 5. Description of primary paint packaging

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





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## 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 PREMIUM® Direct-To-Metal Paint portfolio are considered low-VOC products.

## 1.9. Reference Service Life and Estimated Building Service Life

Table 6 shows the design lifetime for interior and exterior paints of different quality. The entire BEHR PREMIUM® Direct-To-Metal Paint line is considered mid-quality, and therefore has a design life of 7 years as an interior coating and 10 years as an exterior coating. Per the PCR, all results declared are calculated for a market life of 5 years as an interior coating and 10 years as an exterior coating. The estimated building life is 60 years per the PCR.

Table 6. 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    |

## 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.







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## 2. Life Cycle Assessment Background Information

### 2.1. Functional or Declared Unit

The functional unit for the study is:

***Covering and protecting 1 m<sup>2</sup> 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 interior paints is 5 years and 10 years for exterior paints. 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 6. Lifetimes and reference flows for each sheen and base combination are shown in Table 7. Results were calculated for all base and sheen formulations.

For further technical information on BEHR PREMIUM® Direct-To-Metal Paint, visit [www.behr.com](http://www.behr.com).

**Table 7. 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 <sup>2</sup> ) | COLORANT PER UNIT AREA (KG/M <sup>2</sup> ) |
|----------|------------|-------|-------------------------|-------------------------|--|---|
| 3200 Int | Semi-Gloss | White | 7                       | 5                       | 0.124                                    | 0.0047                                      |
| 3200 Ext | Semi-Gloss | White | 10                      | 10                      | 0.124                                    | 0.0047                                      |
| 3230 Int | Semi-Gloss | Deep  | 7                       | 5                       | 0.113                                    | 0.0159                                      |
| 3230 Ext | Semi-Gloss | Deep  | 10                      | 10                      | 0.113                                    | 0.0159                                      |
| 7200 Int | Eggshell   | White | 7                       | 5                       | 0.128                                    | 0.0047                                      |
| 7200 Ext | Eggshell   | White | 10                      | 10                      | 0.128                                    | 0.0047                                      |
| 7230 Int | Eggshell   | Deep  | 7                       | 5                       | 0.116                                    | 0.0159                                      |
| 7230 Ext | Eggshell   | Deep  | 10                      | 10                      | 0.116                                    | 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 PREMIUM® Direct-To-Metal Paint sold in the North American market for the reference year 2021.



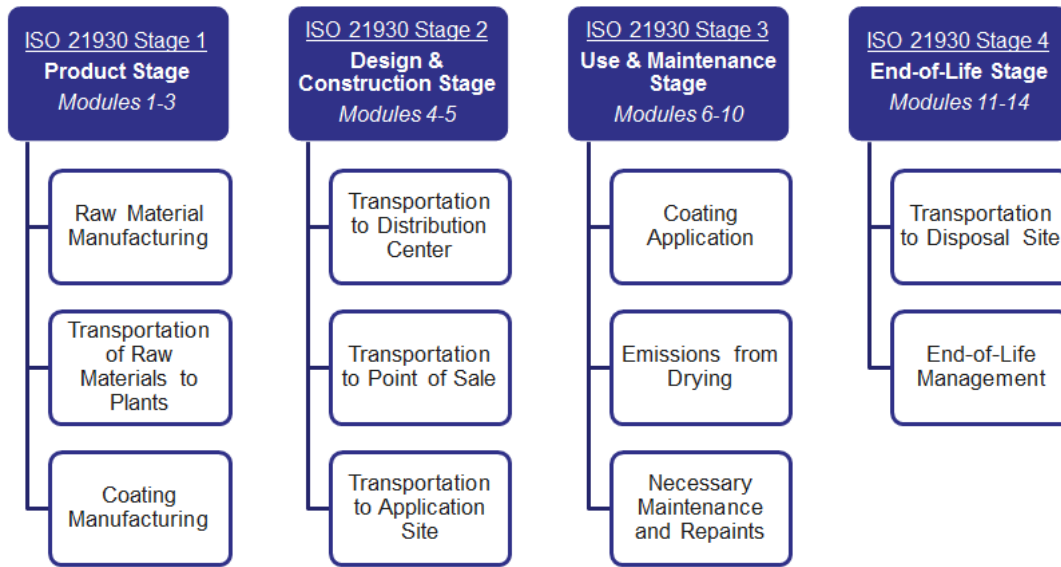


Figure 2. System boundaries for cradle to grave LCA

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 two of Behr’s production facilities that produce BEHR PREMIUM® Direct-To-Metal Paint. Those facilities are located in: Imperial, MO 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 two 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 8). 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 9 and Table 16, respectively.

Furthermore, the results of each impact category for each stage are presented in Table 10 to Table 15 and from Table 17 to Table 22. 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 8. Environmental impact categories for North America**

| PARAMETER        | DESCRIPTION   | LCIA METHOD      | UNIT                   |
|------------------|---|------------------|------------------------|
| GWP              | Global warming potential, fossil                                    | IPCCC AR5 (2013) | kg CO <sub>2</sub> 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 <sub>2</sub> eq. |
| EP               | Eutrophication potential  | TRACI 2.1        | kg N eq.               |
| SFP              | Tropospheric ozone photochemical oxidant (smog) formation potential | TRACI 2.1        | kg O <sub>3</sub> eq.  |
| ADP <sub>f</sub> | Abiotic resource potential for fossil resources                     | CML 2001         | MJ                     |



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**Table 9. Total LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life**

| SKU      | GWP                    | AP                     | EP       | ODP           | SFP                   | ADPF     |
|----------|------------------------|------------------------|----------|---------------|-----------------------|----------|
|          | KG CO <sub>2</sub> EQ. | KG SO <sub>2</sub> EQ. | KG N EQ. | KG CFC-11 EQ. | KG O <sub>3</sub> EQ. | MJ       |
| 3200 Int | 2.49E+00               | 3.57E-02               | 6.37E-04 | 7.99E-14      | 9.27E-02              | 4.91E+01 |
| 3200 Ext | 1.74E+00               | 2.50E-02               | 4.46E-04 | 5.60E-14      | 6.49E-02              | 3.43E+01 |
| 3230 Int | 2.20E+00               | 4.14E-03               | 5.10E-04 | 5.29E-14      | 6.37E-02              | 4.76E+01 |
| 3230 Ext | 1.54E+00               | 2.90E-03               | 3.57E-04 | 3.70E-14      | 4.46E-02              | 3.33E+01 |
| 7200 Int | 2.46E+00               | 3.63E-02               | 6.47E-04 | 7.89E-14      | 9.32E-02              | 4.79E+01 |
| 7200 Ext | 1.72E+00               | 2.54E-02               | 4.53E-04 | 5.52E-14      | 6.53E-02              | 3.35E+01 |
| 7230 Int | 2.16E+00               | 4.19E-03               | 5.17E-04 | 5.19E-14      | 6.41E-02              | 4.67E+01 |
| 7230 Ext | 1.51E+00               | 2.93E-03               | 3.62E-04 | 3.63E-14      | 4.48E-02              | 3.27E+01 |

**Table 10. GWP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg CO<sub>2</sub> eq.)**

| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4   | TOTAL    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 2.05E+00 | 4.02E-01 | 0.00E+00 | 3.62E-02  | 2.49E+00 |
| 3200 Ext | 1.44E+00 | 2.82E-01 | 0.00E+00 | 2.53E-02  | 1.74E+00 |
| 3230 Int | 1.64E+00 | 5.70E-01 | 0.00E+00 | -1.43E-02 | 2.20E+00 |
| 3230 Ext | 1.15E+00 | 3.99E-01 | 0.00E+00 | -1.00E-02 | 1.54E+00 |
| 7200 Int | 2.01E+00 | 4.14E-01 | 0.00E+00 | 3.72E-02  | 2.46E+00 |
| 7200 Ext | 1.41E+00 | 2.90E-01 | 0.00E+00 | 2.60E-02  | 1.72E+00 |
| 7230 Int | 1.60E+00 | 5.77E-01 | 0.00E+00 | -1.38E-02 | 2.16E+00 |
| 7230 Ext | 1.12E+00 | 4.04E-01 | 0.00E+00 | -9.66E-03 | 1.51E+00 |

**Table 11. AP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg SO<sub>2</sub> eq.)**

| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4  | TOTAL    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 3.47E-02 | 8.87E-04 | 0.00E+00 | 1.52E-04 | 3.57E-02 |
| 3200 Ext | 2.43E-02 | 6.21E-04 | 0.00E+00 | 1.06E-04 | 2.50E-02 |
| 3230 Int | 3.00E-03 | 1.06E-03 | 0.00E+00 | 7.69E-05 | 4.14E-03 |
| 3230 Ext | 2.10E-03 | 7.41E-04 | 0.00E+00 | 5.39E-05 | 2.90E-03 |



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| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4  | TOTAL    |
|----------|----------|----------|----------|----------|----------|
| 7200 Int | 3.52E-02 | 9.14E-04 | 0.00E+00 | 1.57E-04 | 3.63E-02 |
| 7200 Ext | 2.47E-02 | 6.40E-04 | 0.00E+00 | 1.10E-04 | 2.54E-02 |
| 7230 Int | 3.03E-03 | 1.07E-03 | 0.00E+00 | 7.99E-05 | 4.19E-03 |
| 7230 Ext | 2.12E-03 | 7.51E-04 | 0.00E+00 | 5.60E-05 | 2.93E-03 |

Table 12. EP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg N eq.)

| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4  | TOTAL    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 3.08E-04 | 1.15E-04 | 0.00E+00 | 2.15E-04 | 6.37E-04 |
| 3200 Ext | 2.16E-04 | 8.03E-05 | 0.00E+00 | 1.50E-04 | 4.46E-04 |
| 3230 Int | 2.16E-04 | 1.03E-04 | 0.00E+00 | 1.91E-04 | 5.10E-04 |
| 3230 Ext | 1.51E-04 | 7.23E-05 | 0.00E+00 | 1.34E-04 | 3.57E-04 |
| 7200 Int | 3.06E-04 | 1.19E-04 | 0.00E+00 | 2.22E-04 | 6.47E-04 |
| 7200 Ext | 2.14E-04 | 8.32E-05 | 0.00E+00 | 1.56E-04 | 4.53E-04 |
| 7230 Int | 2.15E-04 | 1.06E-04 | 0.00E+00 | 1.96E-04 | 5.17E-04 |
| 7230 Ext | 1.51E-04 | 7.39E-05 | 0.00E+00 | 1.37E-04 | 3.62E-04 |

Table 13. ODP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg CFC-11 eq.)

| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4  | TOTAL    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 7.66E-14 | 2.51E-15 | 0.00E+00 | 8.06E-16 | 7.99E-14 |
| 3200 Ext | 5.36E-14 | 1.76E-15 | 0.00E+00 | 5.64E-16 | 5.60E-14 |
| 3230 Int | 4.61E-14 | 6.03E-15 | 0.00E+00 | 7.00E-16 | 5.29E-14 |
| 3230 Ext | 3.23E-14 | 4.22E-15 | 0.00E+00 | 4.90E-16 | 3.70E-14 |
| 7200 Int | 7.55E-14 | 2.55E-15 | 0.00E+00 | 8.50E-16 | 7.89E-14 |
| 7200 Ext | 5.29E-14 | 1.78E-15 | 0.00E+00 | 5.95E-16 | 5.52E-14 |
| 7230 Int | 4.51E-14 | 6.06E-15 | 0.00E+00 | 7.28E-16 | 5.19E-14 |
| 7230 Ext | 3.16E-14 | 4.24E-15 | 0.00E+00 | 5.09E-16 | 3.63E-14 |



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**Table 14. SFP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg O<sub>3</sub> eq.)**

| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4  | TOTAL    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 7.29E-02 | 1.70E-02 | 5.32E-10 | 2.73E-03 | 9.27E-02 |
| 3200 Ext | 5.10E-02 | 1.19E-02 | 3.72E-10 | 1.91E-03 | 6.49E-02 |
| 3230 Int | 4.64E-02 | 1.53E-02 | 5.32E-10 | 2.00E-03 | 6.37E-02 |
| 3230 Ext | 3.25E-02 | 1.07E-02 | 3.72E-10 | 1.40E-03 | 4.46E-02 |
| 7200 Int | 7.28E-02 | 1.76E-02 | 5.32E-10 | 2.82E-03 | 9.32E-02 |
| 7200 Ext | 5.10E-02 | 1.23E-02 | 3.72E-10 | 1.97E-03 | 6.53E-02 |
| 7230 Int | 4.64E-02 | 1.56E-02 | 5.32E-10 | 2.06E-03 | 6.41E-02 |
| 7230 Ext | 3.25E-02 | 1.09E-02 | 3.72E-10 | 1.44E-03 | 4.48E-02 |

**Table 15. ADP<sub>f</sub> LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (MJ)**

| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4   | TOTAL    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 4.22E+01 | 6.72E+00 | 0.00E+00 | 1.04E-01  | 4.91E+01 |
| 3200 Ext | 2.96E+01 | 4.71E+00 | 0.00E+00 | 7.29E-02  | 3.43E+01 |
| 3230 Int | 3.56E+01 | 1.22E+01 | 0.00E+00 | -2.30E-01 | 4.76E+01 |
| 3230 Ext | 2.49E+01 | 8.54E+00 | 0.00E+00 | -1.61E-01 | 3.33E+01 |
| 7200 Int | 4.09E+01 | 6.87E+00 | 0.00E+00 | 1.18E-01  | 4.79E+01 |
| 7200 Ext | 2.87E+01 | 4.81E+00 | 0.00E+00 | 8.29E-02  | 3.35E+01 |
| 7230 Int | 3.46E+01 | 1.23E+01 | 0.00E+00 | -2.23E-01 | 4.67E+01 |
| 7230 Ext | 2.42E+01 | 8.62E+00 | 0.00E+00 | -1.56E-01 | 3.27E+01 |

**Table 16. Total LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life**

| SKU      | GWP<br>KG CO <sub>2</sub> EQ. | AP<br>KG SO <sub>2</sub> EQ. | EP<br>KG N EQ. | ODP<br>KG CFC 11 EQ. | SFP<br>KG O <sub>3</sub> EQ. | ADP <sub>f</sub><br>MJ |
|----------|-------------------------------|------------------------------|----------------|----------------------|------------------------------|------------------------|
| 3200 Int | 3.49E+00                      | 5.00E-02                     | 8.92E-04       | 1.12E-13             | 1.30E-01                     | 6.87E+01               |
| 3200 Ext | 1.74E+00                      | 2.50E-02                     | 4.46E-04       | 5.60E-14             | 6.49E-02                     | 3.43E+01               |
| 3230 Int | 3.08E+00                      | 5.79E-03                     | 7.14E-04       | 7.40E-14             | 8.91E-02                     | 6.66E+01               |



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| SKU      | GWP<br>KG CO <sub>2</sub> EQ. | AP<br>KG SO <sub>2</sub> EQ. | EP<br>KG N EQ. | ODP<br>KG CFC 11 EQ. | SFP<br>KG O <sub>3</sub> EQ. | ADPF<br>MJ |
|----------|-------------------------------|------------------------------|----------------|----------------------|------------------------------|------------|
| 3230 Ext | 1.54E+00                      | 2.90E-03                     | 3.57E-04       | 3.70E-14             | 4.46E-02                     | 3.33E+01   |
| 7200 Int | 3.44E+00                      | 5.08E-02                     | 9.06E-04       | 1.10E-13             | 1.31E-01                     | 6.71E+01   |
| 7200 Ext | 1.72E+00                      | 2.54E-02                     | 4.53E-04       | 5.52E-14             | 6.53E-02                     | 3.35E+01   |
| 7230 Int | 3.03E+00                      | 5.86E-03                     | 7.24E-04       | 7.27E-14             | 8.97E-02                     | 6.53E+01   |
| 7230 Ext | 1.51E+00                      | 2.93E-03                     | 3.62E-04       | 3.63E-14             | 4.48E-02                     | 3.27E+01   |

**Table 17. GWP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg CO<sub>2</sub> eq.)**

| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4   | TOTAL    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 2.87E+00 | 5.63E-01 | 0.00E+00 | 5.06E-02  | 3.49E+00 |
| 3200 Ext | 1.44E+00 | 2.82E-01 | 0.00E+00 | 2.53E-02  | 1.74E+00 |
| 3230 Int | 2.30E+00 | 7.98E-01 | 0.00E+00 | -2.00E-02 | 3.08E+00 |
| 3230 Ext | 1.15E+00 | 3.99E-01 | 0.00E+00 | -1.00E-02 | 1.54E+00 |
| 7200 Int | 2.81E+00 | 5.79E-01 | 0.00E+00 | 5.20E-02  | 3.44E+00 |
| 7200 Ext | 1.41E+00 | 2.90E-01 | 0.00E+00 | 2.60E-02  | 1.72E+00 |
| 7230 Int | 2.24E+00 | 8.08E-01 | 0.00E+00 | -1.93E-02 | 3.03E+00 |
| 7230 Ext | 1.12E+00 | 4.04E-01 | 0.00E+00 | -9.66E-03 | 1.51E+00 |

**Table 18. AP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg SO<sub>2</sub> eq.)**

| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4  | TOTAL    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 4.86E-02 | 1.24E-03 | 0.00E+00 | 2.12E-04 | 5.00E-02 |
| 3200 Ext | 2.43E-02 | 6.21E-04 | 0.00E+00 | 1.06E-04 | 2.50E-02 |
| 3230 Int | 4.20E-03 | 1.48E-03 | 0.00E+00 | 1.08E-04 | 5.79E-03 |
| 3230 Ext | 2.10E-03 | 7.41E-04 | 0.00E+00 | 5.39E-05 | 2.90E-03 |
| 7200 Int | 4.93E-02 | 1.28E-03 | 0.00E+00 | 2.19E-04 | 5.08E-02 |
| 7200 Ext | 2.47E-02 | 6.40E-04 | 0.00E+00 | 1.10E-04 | 2.54E-02 |
| 7230 Int | 4.24E-03 | 1.50E-03 | 0.00E+00 | 1.12E-04 | 5.86E-03 |
| 7230 Ext | 2.12E-03 | 7.51E-04 | 0.00E+00 | 5.60E-05 | 2.93E-03 |



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**Table 19. EP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg N eq.)**

| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4  | TOTAL    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 4.31E-04 | 1.61E-04 | 0.00E+00 | 3.01E-04 | 8.92E-04 |
| 3200 Ext | 2.16E-04 | 8.03E-05 | 0.00E+00 | 1.50E-04 | 4.46E-04 |
| 3230 Int | 3.02E-04 | 1.45E-04 | 0.00E+00 | 2.67E-04 | 7.14E-04 |
| 3230 Ext | 1.51E-04 | 7.23E-05 | 0.00E+00 | 1.34E-04 | 3.57E-04 |
| 7200 Int | 4.28E-04 | 1.66E-04 | 0.00E+00 | 3.11E-04 | 9.06E-04 |
| 7200 Ext | 2.14E-04 | 8.32E-05 | 0.00E+00 | 1.56E-04 | 4.53E-04 |
| 7230 Int | 3.02E-04 | 1.48E-04 | 0.00E+00 | 2.74E-04 | 7.24E-04 |
| 7230 Ext | 1.51E-04 | 7.39E-05 | 0.00E+00 | 1.37E-04 | 3.62E-04 |

**Table 20. ODP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg CFC-11 eq.)**

| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4  | TOTAL    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 1.07E-13 | 3.52E-15 | 0.00E+00 | 1.13E-15 | 1.12E-13 |
| 3200 Ext | 5.36E-14 | 1.76E-15 | 0.00E+00 | 5.64E-16 | 5.60E-14 |
| 3230 Int | 6.46E-14 | 8.44E-15 | 0.00E+00 | 9.81E-16 | 7.40E-14 |
| 3230 Ext | 3.23E-14 | 4.22E-15 | 0.00E+00 | 4.90E-16 | 3.70E-14 |
| 7200 Int | 1.06E-13 | 3.56E-15 | 0.00E+00 | 1.19E-15 | 1.10E-13 |
| 7200 Ext | 5.29E-14 | 1.78E-15 | 0.00E+00 | 5.95E-16 | 5.52E-14 |
| 7230 Int | 6.32E-14 | 8.48E-15 | 0.00E+00 | 1.02E-15 | 7.27E-14 |
| 7230 Ext | 3.16E-14 | 4.24E-15 | 0.00E+00 | 5.09E-16 | 3.63E-14 |

**Table 21. SFP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg O<sub>3</sub> eq.)**

| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4  | TOTAL    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 1.02E-01 | 2.38E-02 | 7.45E-10 | 3.82E-03 | 1.30E-01 |
| 3200 Ext | 5.10E-02 | 1.19E-02 | 3.72E-10 | 1.91E-03 | 6.49E-02 |
| 3230 Int | 6.49E-02 | 2.14E-02 | 7.45E-10 | 2.80E-03 | 8.91E-02 |
| 3230 Ext | 3.25E-02 | 1.07E-02 | 3.72E-10 | 1.40E-03 | 4.46E-02 |
| 7200 Int | 1.02E-01 | 2.47E-02 | 7.45E-10 | 3.94E-03 | 1.31E-01 |





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| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4  | TOTAL    |
|----------|----------|----------|----------|----------|----------|
| 7200 Ext | 5.10E-02 | 1.23E-02 | 3.72E-10 | 1.97E-03 | 6.53E-02 |
| 7230 Int | 6.49E-02 | 2.18E-02 | 7.45E-10 | 2.88E-03 | 8.97E-02 |
| 7230 Ext | 3.25E-02 | 1.09E-02 | 3.72E-10 | 1.44E-03 | 4.48E-02 |

Table 22. ADPf LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)

| SKU      | STAGE 1  | STAGE 2  | STAGE 3  | STAGE 4   | TOTAL    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 5.91E+01 | 9.41E+00 | 0.00E+00 | 1.46E-01  | 6.87E+01 |
| 3200 Ext | 2.96E+01 | 4.71E+00 | 0.00E+00 | 7.29E-02  | 3.43E+01 |
| 3230 Int | 4.99E+01 | 1.71E+01 | 0.00E+00 | -3.22E-01 | 6.66E+01 |
| 3230 Ext | 2.49E+01 | 8.54E+00 | 0.00E+00 | -1.61E-01 | 3.33E+01 |
| 7200 Int | 5.73E+01 | 9.62E+00 | 0.00E+00 | 1.66E-01  | 6.71E+01 |
| 7200 Ext | 2.87E+01 | 4.81E+00 | 0.00E+00 | 8.29E-02  | 3.35E+01 |
| 7230 Int | 4.84E+01 | 1.72E+01 | 0.00E+00 | -3.12E-01 | 6.53E+01 |
| 7230 Ext | 2.42E+01 | 8.62E+00 | 0.00E+00 | -1.56E-01 | 3.27E+01 |





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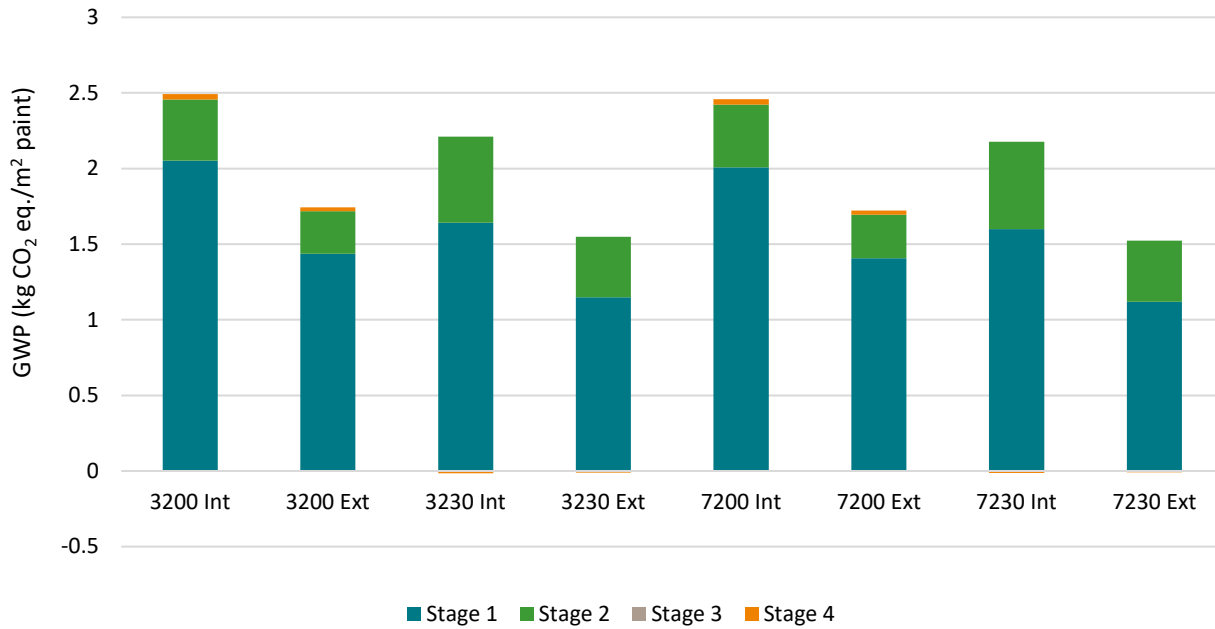


Figure 3: GWP results by stage by design life

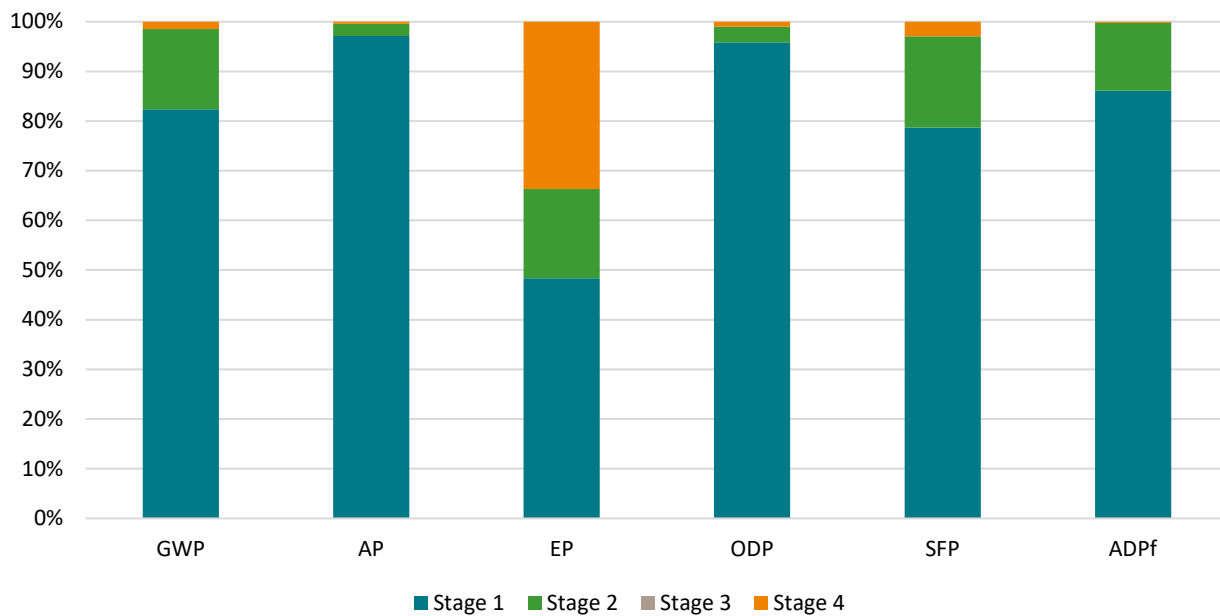


Figure 4. LCIA contribution results for 3200 Int



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## 3.2. Life Cycle Inventory Results

**Table 23. Total resource use results for each paint product, per 1 m<sup>2</sup> for 60 years by design life**

| SKU      | RPR <sub>E</sub><br>MJ | RPR <sub>M</sub><br>MJ | NRPR <sub>E</sub><br>MJ | NRPR <sub>M</sub><br>MJ | SM<br>KG | RSF<br>MJ | NRSF<br>MJ | RE<br>MJ | FW<br>M <sup>3</sup> |
|----------|------------------------|------------------------|-------------------------|-------------------------|----------|-----------|------------|----------|----------------------|
| 3200 Int | 3.26E+00               | 3.09E-01               | 4.36E+01                | 7.86E+00                | 3.92E-04 | 0         | 0          | 0        | 1.44E-02             |
| 3200 Ext | 2.28E+00               | 2.16E-01               | 3.05E+01                | 5.50E+00                | 2.75E-04 | 0         | 0          | 0        | 1.01E-02             |
| 3230 Int | 2.70E+00               | 7.77E-01               | 4.23E+01                | 6.75E+00                | 4.21E-03 | 0         | 0          | 0        | 9.34E-03             |
| 3230 Ext | 1.89E+00               | 5.44E-01               | 2.96E+01                | 4.72E+00                | 2.94E-03 | 0         | 0          | 0        | 6.54E-03             |
| 7200 Int | 3.24E+00               | 3.09E-01               | 4.28E+01                | 7.49E+00                | 3.93E-04 | 0         | 0          | 0        | 1.43E-02             |
| 7200 Ext | 2.27E+00               | 2.17E-01               | 2.99E+01                | 5.24E+00                | 2.75E-04 | 0         | 0          | 0        | 1.00E-02             |
| 7230 Int | 2.71E+00               | 7.79E-01               | 4.16E+01                | 6.52E+00                | 4.22E-03 | 0         | 0          | 0        | 9.21E-03             |
| 7230 Ext | 1.90E+00               | 5.45E-01               | 2.91E+01                | 4.56E+00                | 2.95E-03 | 0         | 0          | 0        | 6.45E-03             |

**Table 24. RPR<sub>E</sub> results for each paint product, for their design life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 2.92E+00 | 3.03E-01 | 0.00E+00 | 3.86E-02 | 3.26E+00 |
| 3200 Ext | 2.04E+00 | 2.12E-01 | 0.00E+00 | 2.70E-02 | 2.28E+00 |
| 3230 Int | 2.22E+00 | 4.11E-01 | 0.00E+00 | 7.45E-02 | 2.70E+00 |
| 3230 Ext | 1.55E+00 | 2.88E-01 | 0.00E+00 | 5.22E-02 | 1.89E+00 |
| 7200 Int | 2.89E+00 | 3.12E-01 | 0.00E+00 | 4.03E-02 | 3.24E+00 |
| 7200 Ext | 2.02E+00 | 2.18E-01 | 0.00E+00 | 2.82E-02 | 2.27E+00 |
| 7230 Int | 2.21E+00 | 4.17E-01 | 0.00E+00 | 7.57E-02 | 2.71E+00 |
| 7230 Ext | 1.55E+00 | 2.92E-01 | 0.00E+00 | 5.30E-02 | 1.90E+00 |

**Table 25. RPR<sub>M</sub> results for each paint product, for their design life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 3.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.09E-01 |
| 3200 Ext | 2.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.16E-01 |
| 3230 Int | 7.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.77E-01 |
| 3230 Ext | 5.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.44E-01 |
| 7200 Int | 3.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.09E-01 |



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| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 7200 Ext | 2.17E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-01 |
| 7230 Int | 7.79E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.79E-01 |
| 7230 Ext | 5.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-01 |

**Table 26. NRPR<sub>e</sub> results for each paint product, for their design life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 3.66E+01 | 6.84E+00 | 0.00E+00 | 9.99E-02  | 4.36E+01 |
| 3200 Ext | 2.56E+01 | 4.78E+00 | 0.00E+00 | 7.00E-02  | 3.05E+01 |
| 3230 Int | 3.00E+01 | 1.25E+01 | 0.00E+00 | -2.09E-01 | 4.23E+01 |
| 3230 Ext | 2.10E+01 | 8.73E+00 | 0.00E+00 | -1.46E-01 | 2.96E+01 |
| 7200 Int | 3.57E+01 | 6.98E+00 | 0.00E+00 | 1.15E-01  | 4.28E+01 |
| 7200 Ext | 2.50E+01 | 4.89E+00 | 0.00E+00 | 8.03E-02  | 2.99E+01 |
| 7230 Int | 2.92E+01 | 1.26E+01 | 0.00E+00 | -2.01E-01 | 4.16E+01 |
| 7230 Ext | 2.04E+01 | 8.81E+00 | 0.00E+00 | -1.41E-01 | 2.91E+01 |

**Table 27. NRPR<sub>m</sub> results for each paint product, for their design life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 7.86E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.86E+00 |
| 3200 Ext | 5.50E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.50E+00 |
| 3230 Int | 6.75E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.75E+00 |
| 3230 Ext | 4.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.72E+00 |
| 7200 Int | 7.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.49E+00 |
| 7200 Ext | 5.24E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.24E+00 |
| 7230 Int | 6.52E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.52E+00 |
| 7230 Ext | 4.56E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.56E+00 |

**Table 28. SM results for each paint product, for their design life (kg)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 3.92E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.92E-04 |
| 3200 Ext | 2.75E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-04 |
| 3230 Int | 4.21E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.21E-03 |



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| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3230 Ext | 2.94E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.94E-03 |
| 7200 Int | 3.93E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.93E-04 |
| 7200 Ext | 2.75E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-04 |
| 7230 Int | 4.22E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.22E-03 |
| 7230 Ext | 2.95E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-03 |

**Table 29. FW results for each paint product, for their design life (m<sup>3</sup>)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 1.26E-02 | 1.78E-03 | 0.00E+00 | 9.97E-06  | 1.44E-02 |
| 3200 Ext | 8.85E-03 | 1.24E-03 | 0.00E+00 | 6.98E-06  | 1.01E-02 |
| 3230 Int | 6.52E-03 | 3.02E-03 | 0.00E+00 | -1.96E-04 | 9.34E-03 |
| 3230 Ext | 4.56E-03 | 2.11E-03 | 0.00E+00 | -1.37E-04 | 6.54E-03 |
| 7200 Int | 1.25E-02 | 1.82E-03 | 0.00E+00 | 1.18E-05  | 1.43E-02 |
| 7200 Ext | 8.73E-03 | 1.27E-03 | 0.00E+00 | 8.26E-06  | 1.00E-02 |
| 7230 Int | 6.35E-03 | 3.05E-03 | 0.00E+00 | -1.96E-04 | 9.21E-03 |
| 7230 Ext | 4.45E-03 | 2.14E-03 | 0.00E+00 | -1.37E-04 | 6.45E-03 |

**Table 30. Total Resource use results for each paint product, per 1 m<sup>2</sup> for 60 years by market life**

| SKU      | RPR <sub>E</sub><br>MJ | RPR <sub>M</sub><br>MJ | NRPR <sub>E</sub><br>MJ | NRPR <sub>M</sub><br>MJ | SM<br>KG | RSF<br>MJ | NRSF<br>MJ | RE<br>MJ | FW<br>m <sup>3</sup> |
|----------|------------------------|------------------------|-------------------------|-------------------------|----------|-----------|------------|----------|----------------------|
| 3200 Int | 4.56E+00               | 4.33E-01               | 6.10E+01                | 1.10E+01                | 5.49E-04 | 0         | 0          | 0        | 2.02E-02             |
| 3200 Ext | 2.28E+00               | 2.16E-01               | 3.05E+01                | 5.50E+00                | 2.75E-04 | 0         | 0          | 0        | 1.01E-02             |
| 3230 Int | 3.79E+00               | 1.09E+00               | 5.92E+01                | 9.44E+00                | 5.89E-03 | 0         | 0          | 0        | 1.31E-02             |
| 3230 Ext | 1.89E+00               | 5.44E-01               | 2.96E+01                | 4.72E+00                | 2.94E-03 | 0         | 0          | 0        | 6.54E-03             |
| 7200 Int | 4.53E+00               | 4.33E-01               | 5.99E+01                | 1.05E+01                | 5.50E-04 | 0         | 0          | 0        | 2.00E-02             |
| 7200 Ext | 2.27E+00               | 2.17E-01               | 2.99E+01                | 5.24E+00                | 2.75E-04 | 0         | 0          | 0        | 1.00E-02             |
| 7230 Int | 3.79E+00               | 1.09E+00               | 5.82E+01                | 9.13E+00                | 5.91E-03 | 0         | 0          | 0        | 1.29E-02             |
| 7230 Ext | 1.90E+00               | 5.45E-01               | 2.91E+01                | 4.56E+00                | 2.95E-03 | 0         | 0          | 0        | 6.45E-03             |



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**Table 31. RPRe results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 4.08E+00 | 4.24E-01 | 0.00E+00 | 5.40E-02 | 4.56E+00 |
| 3200 Ext | 2.04E+00 | 2.12E-01 | 0.00E+00 | 2.70E-02 | 2.28E+00 |
| 3230 Int | 3.11E+00 | 5.76E-01 | 0.00E+00 | 1.04E-01 | 3.79E+00 |
| 3230 Ext | 1.55E+00 | 2.88E-01 | 0.00E+00 | 5.22E-02 | 1.89E+00 |
| 7200 Int | 4.04E+00 | 4.37E-01 | 0.00E+00 | 5.64E-02 | 4.53E+00 |
| 7200 Ext | 2.02E+00 | 2.18E-01 | 0.00E+00 | 2.82E-02 | 2.27E+00 |
| 7230 Int | 3.10E+00 | 5.84E-01 | 0.00E+00 | 1.06E-01 | 3.79E+00 |
| 7230 Ext | 1.55E+00 | 2.92E-01 | 0.00E+00 | 5.30E-02 | 1.90E+00 |

**Table 32. RPRm results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 4.33E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.33E-01 |
| 3200 Ext | 2.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.16E-01 |
| 3230 Int | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 |
| 3230 Ext | 5.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.44E-01 |
| 7200 Int | 4.33E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.33E-01 |
| 7200 Ext | 2.17E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-01 |
| 7230 Int | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 |
| 7230 Ext | 5.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-01 |

**Table 33. NRPRe results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 5.13E+01 | 9.57E+00 | 0.00E+00 | 1.40E-01  | 6.10E+01 |
| 3200 Ext | 2.56E+01 | 4.78E+00 | 0.00E+00 | 7.00E-02  | 3.05E+01 |
| 3230 Int | 4.21E+01 | 1.75E+01 | 0.00E+00 | -2.92E-01 | 5.92E+01 |
| 3230 Ext | 2.10E+01 | 8.73E+00 | 0.00E+00 | -1.46E-01 | 2.96E+01 |
| 7200 Int | 5.00E+01 | 9.77E+00 | 0.00E+00 | 1.61E-01  | 5.99E+01 |
| 7200 Ext | 2.50E+01 | 4.89E+00 | 0.00E+00 | 8.03E-02  | 2.99E+01 |
| 7230 Int | 4.09E+01 | 1.76E+01 | 0.00E+00 | -2.81E-01 | 5.82E+01 |
| 7230 Ext | 2.04E+01 | 8.81E+00 | 0.00E+00 | -1.41E-01 | 2.91E+01 |



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**Table 34. NRPRm results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 1.10E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E+01 |
| 3200 Ext | 5.50E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.50E+00 |
| 3230 Int | 9.44E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.44E+00 |
| 3230 Ext | 4.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.72E+00 |
| 7200 Int | 1.05E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E+01 |
| 7200 Ext | 5.24E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.24E+00 |
| 7230 Int | 9.13E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.13E+00 |
| 7230 Ext | 4.56E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.56E+00 |

**Table 35. SM results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 5.49E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.49E-04 |
| 3200 Ext | 2.75E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-04 |
| 3230 Int | 5.89E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.89E-03 |
| 3230 Ext | 2.94E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.94E-03 |
| 7200 Int | 5.50E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.50E-04 |
| 7200 Ext | 2.75E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-04 |
| 7230 Int | 5.91E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.91E-03 |
| 7230 Ext | 2.95E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-03 |

**Table 36. FW results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (m<sup>3</sup>)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 1.77E-02 | 2.49E-03 | 0.00E+00 | 1.40E-05  | 2.02E-02 |
| 3200 Ext | 8.85E-03 | 1.24E-03 | 0.00E+00 | 6.98E-06  | 1.01E-02 |
| 3230 Int | 9.12E-03 | 4.23E-03 | 0.00E+00 | -2.75E-04 | 1.31E-02 |
| 3230 Ext | 4.56E-03 | 2.11E-03 | 0.00E+00 | -1.37E-04 | 6.54E-03 |
| 7200 Int | 1.75E-02 | 2.54E-03 | 0.00E+00 | 1.65E-05  | 2.00E-02 |
| 7200 Ext | 8.73E-03 | 1.27E-03 | 0.00E+00 | 8.26E-06  | 1.00E-02 |
| 7230 Int | 8.90E-03 | 4.27E-03 | 0.00E+00 | -2.74E-04 | 1.29E-02 |
| 7230 Ext | 4.45E-03 | 2.14E-03 | 0.00E+00 | -1.37E-04 | 6.45E-03 |



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**Table 37. Total output and waste results for each paint product, per 1 m<sup>2</sup> for 60 years by design life**

| SKU      | HWD<br>% | NHWD<br>% |
|----------|----------|-----------|
| 3200 Int | 0.02%    | 99.98%    |
| 3200 Ext | 0.02%    | 99.98%    |
| 3230 Int | 0.02%    | 99.98%    |
| 3230 Ext | 0.02%    | 99.98%    |
| 7200 Int | 0.02%    | 99.98%    |
| 7200 Ext | 0.02%    | 99.98%    |
| 7230 Int | 0.02%    | 99.98%    |
| 7230 Ext | 0.02%    | 99.98%    |

**Table 38. Waste results for each paint product, per 1 m<sup>2</sup> for 60 years by design life**

| SKU      | Waste | Stage 1 | Stage 2 | Stage 3 | Stage 4 | Total  |
|----------|-------|---------|---------|---------|---------|--------|
| 3200 Int | HWD   | 0.90%   | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 99.10%  | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 3200 Ext | HWD   | 0.90%   | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 99.10%  | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 3230 Int | HWD   | 100.00% | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 0.00%   | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 3230 Ext | HWD   | 100.00% | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 0.00%   | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 7200 Int | HWD   | 0.90%   | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 99.10%  | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 7200 Ext | HWD   | 0.90%   | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 99.10%  | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 7230 Int | HWD   | 100.00% | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 0.00%   | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 7230 Ext | HWD   | 100.00% | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 0.00%   | 0.00%   | 0.00%   | 100.00% | 99.98% |





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**Table 39. Total output and waste results for each paint product, per 1 m<sup>2</sup> for 60 years by market life**

| SKU      | HWD<br>% | NHWD<br>% |
|----------|----------|-----------|
| 3200 Int | 0.02%    | 99.98%    |
| 3200 Ext | 0.02%    | 99.98%    |
| 3230 Int | 0.02%    | 99.98%    |
| 3230 Ext | 0.02%    | 99.98%    |
| 7200 Int | 0.02%    | 99.98%    |
| 7200 Ext | 0.02%    | 99.98%    |
| 7230 Int | 0.02%    | 99.98%    |
| 7230 Ext | 0.02%    | 99.98%    |

**Table 40. Waste results for each paint product, per 1 m<sup>2</sup> for 60 years by market life**

| SKU      | Waste | Stage 1 | Stage 2 | Stage 3 | Stage 4 | Total  |
|----------|-------|---------|---------|---------|---------|--------|
| 3200 Int | HWD   | 0.90%   | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 99.10%  | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 3200 Ext | HWD   | 0.90%   | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 99.10%  | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 3230 Int | HWD   | 100.00% | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 0.00%   | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 3230 Ext | HWD   | 100.00% | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 0.00%   | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 7200 Int | HWD   | 0.90%   | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 99.10%  | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 7200 Ext | HWD   | 0.90%   | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 99.10%  | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 7230 Int | HWD   | 100.00% | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 0.00%   | 0.00%   | 0.00%   | 100.00% | 99.98% |
| 7230 Ext | HWD   | 100.00% | 0.00%   | 0.00%   | 0.00%   | 0.02%  |
|          | NHWD  | 0.00%   | 0.00%   | 0.00%   | 100.00% | 99.98% |



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**Table 41. Energy resource use results for each paint product, per 1 m<sup>2</sup> for 60 years by design life**

| SKU      | BIO-ENERGY | FOSSIL ENERGY | HYDRO/WIND ENERGY | NUCLEAR ENERGY | OTHER ENERGY | NON-RENEWABLE RESOURCES | RENEWABLE RESOURCES |
|----------|------------|---------------|-------------------|----------------|--------------|-------------------------|---------------------|
|          | MJ         | MJ            | MJ                | MJ             | MJ           | KG                      | KG                  |
| 3200 Int | 6.10E-09   | 4.91E+01      | 1.28E+00          | 2.37E+00       | 2.29E+00     | 1.32E+00                | -1.00E-07           |
| 3200 Ext | 4.27E-09   | 3.43E+01      | 8.95E-01          | 1.66E+00       | 1.60E+00     | 9.26E-01                | -7.03E-08           |
| 3230 Int | 5.79E-08   | 4.76E+01      | 8.28E-01          | 1.47E+00       | 2.65E+00     | 1.29E+00                | -1.02E-06           |
| 3230 Ext | 4.05E-08   | 3.33E+01      | 5.80E-01          | 1.03E+00       | 1.86E+00     | 9.04E-01                | -7.14E-07           |
| 7200 Int | 6.09E-09   | 4.79E+01      | 1.27E+00          | 2.35E+00       | 2.28E+00     | 1.30E+00                | -1.00E-07           |
| 7200 Ext | 4.27E-09   | 3.35E+01      | 8.86E-01          | 1.64E+00       | 1.60E+00     | 9.08E-01                | -7.03E-08           |
| 7230 Int | 5.81E-08   | 4.67E+01      | 8.15E-01          | 1.44E+00       | 2.67E+00     | 1.27E+00                | -1.02E-06           |
| 7230 Ext | 4.07E-08   | 3.27E+01      | 5.70E-01          | 1.01E+00       | 1.87E+00     | 8.89E-01                | -7.16E-07           |

**Table 42. Bio-energy results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (MJ)**

| SKU      | Stage 1  | Stage 2   | Stage 3  | Stage 4  | Total    |
|----------|----------|-----------|----------|----------|----------|
| 3200 Int | 5.43E-09 | -9.86E-12 | 0.00E+00 | 6.81E-10 | 6.10E-09 |
| 3200 Ext | 3.80E-09 | -6.91E-12 | 0.00E+00 | 4.77E-10 | 4.27E-09 |
| 3230 Int | 5.06E-08 | -9.02E-12 | 0.00E+00 | 7.27E-09 | 5.79E-08 |
| 3230 Ext | 3.55E-08 | -6.31E-12 | 0.00E+00 | 5.09E-09 | 4.05E-08 |
| 7200 Int | 5.42E-09 | -1.02E-11 | 0.00E+00 | 6.83E-10 | 6.09E-09 |
| 7200 Ext | 3.80E-09 | -7.15E-12 | 0.00E+00 | 4.78E-10 | 4.27E-09 |
| 7230 Int | 5.08E-08 | -9.20E-12 | 0.00E+00 | 7.29E-09 | 5.81E-08 |
| 7230 Ext | 3.56E-08 | -6.44E-12 | 0.00E+00 | 5.10E-09 | 4.07E-08 |

**Table 43. Fossil energy results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 4.22E+01 | 6.72E+00 | 0.00E+00 | 1.04E-01  | 4.91E+01 |
| 3200 Ext | 2.96E+01 | 4.71E+00 | 0.00E+00 | 7.29E-02  | 3.43E+01 |
| 3230 Int | 3.56E+01 | 1.22E+01 | 0.00E+00 | -2.30E-01 | 4.76E+01 |
| 3230 Ext | 2.49E+01 | 8.54E+00 | 0.00E+00 | -1.61E-01 | 3.33E+01 |
| 7200 Int | 4.09E+01 | 6.87E+00 | 0.00E+00 | 1.18E-01  | 4.79E+01 |



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| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total    |
|----------|----------|----------|----------|-----------|----------|
| 7200 Ext | 2.87E+01 | 4.81E+00 | 0.00E+00 | 8.29E-02  | 3.35E+01 |
| 7230 Int | 3.46E+01 | 1.23E+01 | 0.00E+00 | -2.23E-01 | 4.67E+01 |
| 7230 Ext | 2.42E+01 | 8.62E+00 | 0.00E+00 | -1.56E-01 | 3.27E+01 |

**Table 44. Hydro/ Wind energy results each paint product, per 1 m<sup>2</sup> for 60 years by design life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 1.22E+00 | 5.61E-02 | 0.00E+00 | 6.24E-03 | 1.28E+00 |
| 3200 Ext | 8.52E-01 | 3.93E-02 | 0.00E+00 | 4.37E-03 | 8.95E-01 |
| 3230 Int | 6.75E-01 | 1.33E-01 | 0.00E+00 | 1.99E-02 | 8.28E-01 |
| 3230 Ext | 4.73E-01 | 9.28E-02 | 0.00E+00 | 1.39E-02 | 5.80E-01 |
| 7200 Int | 1.20E+00 | 5.69E-02 | 0.00E+00 | 6.72E-03 | 1.27E+00 |
| 7200 Ext | 8.42E-01 | 3.98E-02 | 0.00E+00 | 4.71E-03 | 8.86E-01 |
| 7230 Int | 6.61E-01 | 1.33E-01 | 0.00E+00 | 2.02E-02 | 8.15E-01 |
| 7230 Ext | 4.63E-01 | 9.33E-02 | 0.00E+00 | 1.42E-02 | 5.70E-01 |

**Table 45. Nuclear energy results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 2.26E+00 | 1.11E-01 | 0.00E+00 | -4.15E-03 | 2.37E+00 |
| 3200 Ext | 1.58E+00 | 7.80E-02 | 0.00E+00 | -2.90E-03 | 1.66E+00 |
| 3230 Int | 1.17E+00 | 2.71E-01 | 0.00E+00 | 2.15E-02  | 1.47E+00 |
| 3230 Ext | 8.21E-01 | 1.90E-01 | 0.00E+00 | 1.50E-02  | 1.03E+00 |
| 7200 Int | 2.24E+00 | 1.13E-01 | 0.00E+00 | -3.71E-03 | 2.35E+00 |
| 7200 Ext | 1.57E+00 | 7.89E-02 | 0.00E+00 | -2.60E-03 | 1.64E+00 |
| 7230 Int | 1.14E+00 | 2.72E-01 | 0.00E+00 | 2.18E-02  | 1.44E+00 |
| 7230 Ext | 8.01E-01 | 1.91E-01 | 0.00E+00 | 1.53E-02  | 1.01E+00 |

**Table 46. Other energy results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 2.01E+00 | 2.47E-01 | 0.00E+00 | 3.24E-02 | 2.29E+00 |
| 3200 Ext | 1.41E+00 | 1.73E-01 | 0.00E+00 | 2.26E-02 | 1.60E+00 |
| 3230 Int | 2.32E+00 | 2.79E-01 | 0.00E+00 | 5.46E-02 | 2.65E+00 |



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| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3230 Ext | 1.62E+00 | 1.95E-01 | 0.00E+00 | 3.82E-02 | 1.86E+00 |
| 7200 Int | 1.99E+00 | 2.55E-01 | 0.00E+00 | 3.36E-02 | 2.28E+00 |
| 7200 Ext | 1.39E+00 | 1.79E-01 | 0.00E+00 | 2.35E-02 | 1.60E+00 |
| 7230 Int | 2.33E+00 | 2.84E-01 | 0.00E+00 | 5.55E-02 | 2.67E+00 |
| 7230 Ext | 1.63E+00 | 1.99E-01 | 0.00E+00 | 3.89E-02 | 1.87E+00 |

Table 47. Non-renewable energy resource results each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg)

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 1.10E+00 | 2.15E-01 | 0.00E+00 | 3.62E-03  | 1.32E+00 |
| 3200 Ext | 7.73E-01 | 1.51E-01 | 0.00E+00 | 2.53E-03  | 9.26E-01 |
| 3230 Int | 9.06E-01 | 3.97E-01 | 0.00E+00 | -1.15E-02 | 1.29E+00 |
| 3230 Ext | 6.34E-01 | 2.78E-01 | 0.00E+00 | -8.03E-03 | 9.04E-01 |
| 7200 Int | 1.07E+00 | 2.20E-01 | 0.00E+00 | 4.02E-03  | 1.30E+00 |
| 7200 Ext | 7.51E-01 | 1.54E-01 | 0.00E+00 | 2.82E-03  | 9.08E-01 |
| 7230 Int | 8.82E-01 | 4.00E-01 | 0.00E+00 | -1.13E-02 | 1.27E+00 |
| 7230 Ext | 6.17E-01 | 2.80E-01 | 0.00E+00 | -7.89E-03 | 8.89E-01 |

Table 48. Renewable energy resource results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg)

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total     |
|----------|----------|----------|----------|-----------|-----------|
| 3200 Int | 1.89E-08 | 7.94E-12 | 0.00E+00 | -1.19E-07 | -1.00E-07 |
| 3200 Ext | 1.32E-08 | 5.56E-12 | 0.00E+00 | -8.35E-08 | -7.03E-08 |
| 3230 Int | 2.59E-07 | 1.37E-10 | 0.00E+00 | -1.28E-06 | -1.02E-06 |
| 3230 Ext | 1.81E-07 | 9.59E-11 | 0.00E+00 | -8.95E-07 | -7.14E-07 |
| 7200 Int | 1.90E-08 | 6.17E-12 | 0.00E+00 | -1.19E-07 | -1.00E-07 |
| 7200 Ext | 1.33E-08 | 4.32E-12 | 0.00E+00 | -8.36E-08 | -7.03E-08 |
| 7230 Int | 2.60E-07 | 1.37E-10 | 0.00E+00 | -1.28E-06 | -1.02E-06 |
| 7230 Ext | 1.82E-07 | 9.56E-11 | 0.00E+00 | -8.98E-07 | -7.16E-07 |



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**Table 49. Energy resource use results for each paint product, per 1 m<sup>2</sup> 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                         |
| 3200 Int | 8.54E-09   | 6.87E+01      | 1.79E+00          | 3.31E+00       | 3.20E+00               | 1.85E+00                       | -1.41E-07                  |
| 3200 Ext | 4.27E-09   | 3.43E+01      | 8.95E-01          | 1.66E+00       | 1.60E+00               | 9.26E-01                       | -7.03E-08                  |
| 3230 Int | 8.11E-08   | 6.66E+01      | 1.16E+00          | 2.05E+00       | 3.71E+00               | 1.81E+00                       | -1.43E-06                  |
| 3230 Ext | 4.05E-08   | 3.33E+01      | 5.80E-01          | 1.03E+00       | 1.86E+00               | 9.04E-01                       | -7.14E-07                  |
| 7200 Int | 8.53E-09   | 6.71E+01      | 1.77E+00          | 3.29E+00       | 3.19E+00               | 1.82E+00                       | -1.41E-07                  |
| 7200 Ext | 4.27E-09   | 3.35E+01      | 8.86E-01          | 1.64E+00       | 1.60E+00               | 9.08E-01                       | -7.03E-08                  |
| 7230 Int | 8.13E-08   | 6.53E+01      | 1.14E+00          | 2.01E+00       | 3.74E+00               | 1.78E+00                       | -1.43E-06                  |
| 7230 Ext | 4.07E-08   | 3.27E+01      | 5.70E-01          | 1.01E+00       | 1.87E+00               | 8.89E-01                       | -7.16E-07                  |

**Table 50. Bio-energy results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

| SKU      | Stage 1  | Stage 2   | Stage 3  | Stage 4  | Total    |
|----------|----------|-----------|----------|----------|----------|
| 3200 Int | 7.60E-09 | -1.38E-11 | 0.00E+00 | 9.54E-10 | 8.54E-09 |
| 3200 Ext | 3.80E-09 | -6.91E-12 | 0.00E+00 | 4.77E-10 | 4.27E-09 |
| 3230 Int | 7.09E-08 | -1.26E-11 | 0.00E+00 | 1.02E-08 | 8.11E-08 |
| 3230 Ext | 3.55E-08 | -6.31E-12 | 0.00E+00 | 5.09E-09 | 4.05E-08 |
| 7200 Int | 7.59E-09 | -1.43E-11 | 0.00E+00 | 9.56E-10 | 8.53E-09 |
| 7200 Ext | 3.80E-09 | -7.15E-12 | 0.00E+00 | 4.78E-10 | 4.27E-09 |
| 7230 Int | 7.11E-08 | -1.29E-11 | 0.00E+00 | 1.02E-08 | 8.13E-08 |
| 7230 Ext | 3.56E-08 | -6.44E-12 | 0.00E+00 | 5.10E-09 | 4.07E-08 |

**Table 51. Fossil energy results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 5.91E+01 | 9.41E+00 | 0.00E+00 | 1.46E-01  | 6.87E+01 |
| 3200 Ext | 2.96E+01 | 4.71E+00 | 0.00E+00 | 7.29E-02  | 3.43E+01 |
| 3230 Int | 4.99E+01 | 1.71E+01 | 0.00E+00 | -3.22E-01 | 6.66E+01 |
| 3230 Ext | 2.49E+01 | 8.54E+00 | 0.00E+00 | -1.61E-01 | 3.33E+01 |
| 7200 Int | 5.73E+01 | 9.62E+00 | 0.00E+00 | 1.66E-01  | 6.71E+01 |



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| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total    |
|----------|----------|----------|----------|-----------|----------|
| 7200 Ext | 2.87E+01 | 4.81E+00 | 0.00E+00 | 8.29E-02  | 3.35E+01 |
| 7230 Int | 4.84E+01 | 1.72E+01 | 0.00E+00 | -3.12E-01 | 6.53E+01 |
| 7230 Ext | 2.42E+01 | 8.62E+00 | 0.00E+00 | -1.56E-01 | 3.27E+01 |

**Table 52. Hydro/ Wind energy results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 1.70E+00 | 7.86E-02 | 0.00E+00 | 8.74E-03 | 1.79E+00 |
| 3200 Ext | 8.52E-01 | 3.93E-02 | 0.00E+00 | 4.37E-03 | 8.95E-01 |
| 3230 Int | 9.46E-01 | 1.86E-01 | 0.00E+00 | 2.78E-02 | 1.16E+00 |
| 3230 Ext | 4.73E-01 | 9.28E-02 | 0.00E+00 | 1.39E-02 | 5.80E-01 |
| 7200 Int | 1.68E+00 | 7.96E-02 | 0.00E+00 | 9.41E-03 | 1.77E+00 |
| 7200 Ext | 8.42E-01 | 3.98E-02 | 0.00E+00 | 4.71E-03 | 8.86E-01 |
| 7230 Int | 9.26E-01 | 1.87E-01 | 0.00E+00 | 2.83E-02 | 1.14E+00 |
| 7230 Ext | 4.63E-01 | 9.33E-02 | 0.00E+00 | 1.42E-02 | 5.70E-01 |

**Table 53. Nuclear energy results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 3.16E+00 | 1.56E-01 | 0.00E+00 | -5.81E-03 | 3.31E+00 |
| 3200 Ext | 1.58E+00 | 7.80E-02 | 0.00E+00 | -2.90E-03 | 1.66E+00 |
| 3230 Int | 1.64E+00 | 3.79E-01 | 0.00E+00 | 3.01E-02  | 2.05E+00 |
| 3230 Ext | 8.21E-01 | 1.90E-01 | 0.00E+00 | 1.50E-02  | 1.03E+00 |
| 7200 Int | 3.14E+00 | 1.58E-01 | 0.00E+00 | -5.19E-03 | 3.29E+00 |
| 7200 Ext | 1.57E+00 | 7.89E-02 | 0.00E+00 | -2.60E-03 | 1.64E+00 |
| 7230 Int | 1.60E+00 | 3.81E-01 | 0.00E+00 | 3.05E-02  | 2.01E+00 |
| 7230 Ext | 8.01E-01 | 1.91E-01 | 0.00E+00 | 1.53E-02  | 1.01E+00 |

**Table 54. Other energy results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3200 Int | 2.81E+00 | 3.46E-01 | 0.00E+00 | 4.53E-02 | 3.20E+00 |
| 3200 Ext | 1.41E+00 | 1.73E-01 | 0.00E+00 | 2.26E-02 | 1.60E+00 |
| 3230 Int | 3.25E+00 | 3.90E-01 | 0.00E+00 | 7.65E-02 | 3.71E+00 |



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| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4  | Total    |
|----------|----------|----------|----------|----------|----------|
| 3230 Ext | 1.62E+00 | 1.95E-01 | 0.00E+00 | 3.82E-02 | 1.86E+00 |
| 7200 Int | 2.79E+00 | 3.57E-01 | 0.00E+00 | 4.70E-02 | 3.19E+00 |
| 7200 Ext | 1.39E+00 | 1.79E-01 | 0.00E+00 | 2.35E-02 | 1.60E+00 |
| 7230 Int | 3.27E+00 | 3.97E-01 | 0.00E+00 | 7.77E-02 | 3.74E+00 |
| 7230 Ext | 1.63E+00 | 1.99E-01 | 0.00E+00 | 3.89E-02 | 1.87E+00 |

**Table 55. Non-renewable resource results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total    |
|----------|----------|----------|----------|-----------|----------|
| 3200 Int | 1.55E+00 | 3.01E-01 | 0.00E+00 | 5.07E-03  | 1.85E+00 |
| 3200 Ext | 7.73E-01 | 1.51E-01 | 0.00E+00 | 2.53E-03  | 9.26E-01 |
| 3230 Int | 1.27E+00 | 5.55E-01 | 0.00E+00 | -1.61E-02 | 1.81E+00 |
| 3230 Ext | 6.34E-01 | 2.78E-01 | 0.00E+00 | -8.03E-03 | 9.04E-01 |
| 7200 Int | 1.50E+00 | 3.08E-01 | 0.00E+00 | 5.63E-03  | 1.82E+00 |
| 7200 Ext | 7.51E-01 | 1.54E-01 | 0.00E+00 | 2.82E-03  | 9.08E-01 |
| 7230 Int | 1.23E+00 | 5.60E-01 | 0.00E+00 | -1.58E-02 | 1.78E+00 |
| 7230 Ext | 6.17E-01 | 2.80E-01 | 0.00E+00 | -7.89E-03 | 8.89E-01 |

**Table 56. Renewable resource results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg)**

| SKU      | Stage 1  | Stage 2  | Stage 3  | Stage 4   | Total     |
|----------|----------|----------|----------|-----------|-----------|
| 3200 Int | 2.64E-08 | 1.11E-11 | 0.00E+00 | -1.67E-07 | -1.41E-07 |
| 3200 Ext | 1.32E-08 | 5.56E-12 | 0.00E+00 | -8.35E-08 | -7.03E-08 |
| 3230 Int | 3.63E-07 | 1.92E-10 | 0.00E+00 | -1.79E-06 | -1.43E-06 |
| 3230 Ext | 1.81E-07 | 9.59E-11 | 0.00E+00 | -8.95E-07 | -7.14E-07 |
| 7200 Int | 2.67E-08 | 8.63E-12 | 0.00E+00 | -1.67E-07 | -1.41E-07 |
| 7200 Ext | 1.33E-08 | 4.32E-12 | 0.00E+00 | -8.36E-08 | -7.03E-08 |
| 7230 Int | 3.64E-07 | 1.91E-10 | 0.00E+00 | -1.80E-06 | -1.43E-06 |
| 7230 Ext | 1.82E-07 | 9.56E-11 | 0.00E+00 | -8.98E-07 | -7.16E-07 |





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## 4. Additional Environmental Information

### 4.1. Environmental Activities and Certifications



#### GREENGUARD Certification

BEHR PREMIUM® Direct-To-Metal Paint 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](http://greenguard.org).

### 4.2. Further Information

For further information visit [behr.com](http://behr.com) and [kilz.com](http://kilz.com).

## 5. References

- |             |  |
|-------------|--|
| LCA EF 2023 | Sphera Solutions Inc; Life Cycle Assessment for Experts: Software-System and Database for Life Cycle Engineering. Chicago, IL, USA, 1992-2023. <a href="https://sphera.com/life-cycle-assessment-lca-database/">https://sphera.com/life-cycle-assessment-lca-database/</a>                                     |
| IPCC 2013   | IPCC. (2013). <i>Climate Change 2013: The Physical Science Basis</i> . Genf, Schweiz: IPCC.  |
| ISO 14025   | ISO 14025:2011-10 Environmental labels and declarations - Type III environmental declarations - Principles and procedures  |
| ISO 14040   | ISO 14040:2009-11 Environmental management - Life cycle assessment - Principles and framework  |
| ISO 14044   | ISO 14044:2006-10 Environmental management - Life cycle assessment - Requirements and guidelines   |
| NSF 2015    | NSF. (2015). <i>Product Category Rule (PCR) for Architectural Coatings</i> . USA: NSF: <a href="https://d2evkimvhatqav.cloudfront.net/documents/pcr_architectural_coatings_2022_ext.pdf?v=1657221210">https://d2evkimvhatqav.cloudfront.net/documents/pcr_architectural_coatings_2022_ext.pdf?v=1657221210</a> |
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## 6. Contact Information

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