# Embodied Carbon Calculator: Basic Report

(CIBSE TM65 Digital Tool)

## Embodied Carbon Calculation Results

| | |
|---|---|
| Date of assessment | 23/2/2024 |
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## Basic report for Rigel Lay-In LLIG1-54W 610x610mm as manufactured by LEDspan

| | Product information |
|---|---|
| Type of product | Luminaires |
| Capacity of equipment/size (kW; $m^3$; litre; etc.) | 0.054 kW |
| Product weight (kg) | 7.45 kg |
| Material % breakdown for at least 95% of the product weight? (Y/N) | Y |
| Product service life (years) | 30 Years |
| If refrigerant based, type of refrigerant used and GWP | No refrigerant, 0 kgCO2e |
| Refrigerant charge (kg) | 0.00 kg |
| Product complexity category | Category 2 |

| | Embodied carbon results (kg $CO_2e$) – without refrigerant leakage |
|---|---|
| A1: Material extraction (original product) | 46 kgCO2e |
| A1: Material extraction (components that are replaced in B3 | 1 kgCO2e |
| A1-A4, B3, C2-C4: Total embodied carbon with scale-up and buffer factor (excluding refrigerant leakage) | 87 kgCO2e |

| | Embodied carbon result (kg $CO_2e$) – refrigerant leakage only |
|---|---|
| B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life) | 0 kgCO2e |

| Embodied carbon result with 'basic' calculation method (kg CO2e) – total | | |
|---|---|---|
| Result of 'basic' calculation method | 87 kgCO2e | |

| LEDspan Product Life-Cycle Study (C1-C4) | |
|---|---|
| Percentage of Recyclable material | 99.73% |

This report was generated using the CIBSE TM65 Manufactures form 'beta' version V1.3.

Figures are calculated for a standard version of fitting and may not include accessories or derivatives.