

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 LLI1-54WE 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)	7.85 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 kgCO ₂ e
Refrigerant charge (kg)	0.00 kg
Product complexity category	Category 2

Embodied carbon results (kg CO ₂ e) – without refrigerant leakage	
A1: Material extraction (original product)	66 kgCO ₂ e
A1: Material extraction (components that are replaced in B3)	3 kgCO ₂ e
A1-A4, B3, C2-C4: Total embodied carbon with scale-up and buffer factor (excluding refrigerant leakage)	126 kgCO ₂ e

Embodied carbon result (kg CO ₂ e) – refrigerant leakage only	
B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)	0 kgCO ₂ e

Embodied carbon result with 'basic' calculation method (kg CO ₂ e) – total	
Result of 'basic' calculation method	126 kgCO ₂ e

LEDspan Product Life-Cycle Study (C1-C4)	
Percentage of Recyclable material	99.75%

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

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