TM65:2021 Mid-Level Calculation

Florin Track

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Product Information

Product Name	Florin Track
Weight (kg)	0.991
Size (mm)	L282 W87 H36
Service Life (Lx@Hrs)	50,000 hours
Location Of Manufacture	Whitecroft Lighting Ltd
% Assessed by Weight	100%



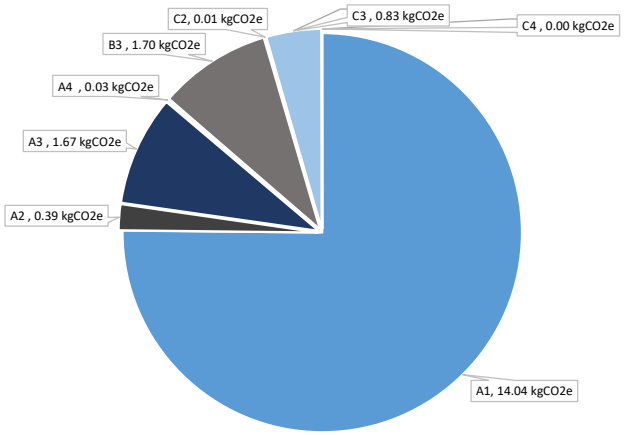
Total embodied carbon calculated in line with Mid Level TM65 calculation method

24.28 kgCO2e

Embodied carbon calculations results breakdown

Life Cycle Stage	KgCO2e	Percentage of total
A1 Material Extraction	14.04 kgCO2e	75.17%
A2 Transport to Factory	0.39 kgCO2e	2.10%
A3 Manufacturing Energy	1.67 kgCO2e	8.92%
A4 Transport to Site	0.03 kgCO2e	0.16%
B3 Repair	1.70 kgCO2e	9.09%
C2 Transport To Waste	0.01 kgCO2e	0.07%
C3 Waste Processing	0.83 kgCO2e	4.46%
C4 Waste Disposal	0.00 kgCO2e	0.03%

Total A1-A4, B3, C2-C4	18.68 kgCO2e
With Buffer (1.3)	24.28 kgCO2e



About this product

Track mounted white or black high performance LED emergency luminaire, complete with charge indicator, driver, charger and battery capable of operation in non-maintained mode. Driver to ensure constant light output independent of battery voltage for 3-hours from mains failure – as Whitecroft Lighting FLORIN TRACK

Assumptions

A1 Material Extraction	Table 2.1 default values are used from TM65 2021. Aluminium data point as per supplier EPD
A2 Transport to Factory	Calculated in line with TM65 Table 4.8 & Table 4.9 (HGV)
A3 Energy	WLL use >97% REGO backed renewable energy so assumed value equals 0kgco2/kwh This study is using 2023 energy values and production weight values Energy values as TM65 default Carbon Factors; Electricty (non REGO): Table 4.10 - UK, Gas: Table 4.11 - Global
A4 Transport	Approximate distance assumed to be Ashton-Under-Lyne to Northampton (227km), & Table 4.8 (HGV)
B3 Repair	TM65 Table 4.6: 10% of A1-A3, C2-C4 assumed
C2 Trasnport to Waste	TM65 Table 4.7 & Table 4.8
C3 Waste Processing	TM65 Table 4.7
C34 Waste Disposal	TM65 Table 4.14 - Light & Table 4.15

Following study should be used in absence of appropriate EPD documentation

CONTACT WHITECROFT