TM65:2021 Mid-Level Calculation

Convex Blade Integral Emergency

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Product Information

Product Name	Convex Blade Integral Emergency
Weight (kg)	0.4736
Size (mm)	240 x 50 x 130
Service Life (Lx@Hrs)	8 years
Location Of Manufacture	Whitecroft Lighting
% Assessed by Weight	100%

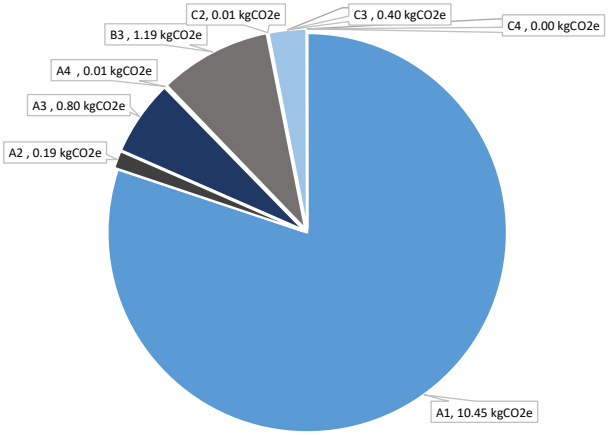
Total embodied carbon calculated in line with Mid Level TM65 calculation method

16.95 kgCO2e

Embodied carbon calculations results breakdown

Life Cycle Stage	KgCO2e	Percentage of total
A1 Material Extraction	10.45 kgCO2e	80.13%
A2 Transport to Factory	0.19 kgCO2e	1.44%
A3 Manufacturing Energy	0.80 kgCO2e	6.11%
A4 Transport to Site	0.01 kgCO2e	0.11%
B3 Repair	1.19 kgCO2e	9.09%
C2 Transport To Waste	0.01 kgCO2e	0.05%
C3 Waste Processing	0.40 kgCO2e	3.06%
C4 Waste Disposal	0.00 kgCO2e	0.02%

Total A1-A4, B3, C2-C4	13.04 kgCO2e
With Buffer (1.3)	16.95 kgCO2e



About this product

LED IP65, mains or 3 hour self-contained maintained emergency ceiling mounted luminaire with rigid polycarbonate body with clear, slotted polycarbonate lens for integration of opal polycarbonate green exit legend. LiFePO4 battery with constant current charger and LED charge indicator - as Whitecroft Lighting CONVEX BLADE

This results are taking into consideration integral emergency unit. For standard product values, please consult separate TM65 or contact Whitecroft

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