TM65:2021 Mid-Level Calculation

Twimspot Integral Emergency

Date February 2025
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Product Information	
Product Name	Twimspot Integral Emergency
Weight (kg)	1.55
Size (mm)	275x50x300
Service Life (Lx@Hrs)	N/A
Location Of Manufacture	UK
% Assessed by Weight	100%

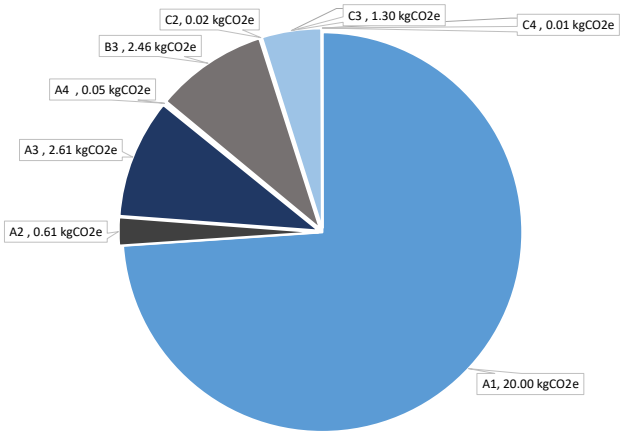
Total embodied carbon calculated in line with Mid Level TM65 calculation method

35.17 kgCO2e

Embodied carbon calculations results breakdown

Life Cycle Stage	KgCO2e	Percentage of total
A1 Material Extraction	20.00 kgCO2e	73.91%
A2 Transport to Factory	0.61 kgCO2e	2.27%
A3 Manufacturing Energy	2.61 kgCO2e	9.64%
A4 Transport to Site	0.05 kgCO2e	0.17%
B3 Repair	2.46 kgCO2e	9.09%
C2 Transport To Waste	0.02 kgCO2e	0.08%
C3 Waste Processing	1.30 kgCO2e	4.82%
C4 Waste Disposal	0.01 kgCO2e	0.03%

Total A1-A4, B3, C2-C4	27.06 kgCO2e
With Buffer (1.3)	35.17 kgCO2e



About this product

Twin Spot LED
Twin head emergency for high mounting
Note: Due to lack of acces to data points for NiCAD batteries, Lithium data point has been used instaed

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
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