STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65 Calculation : Luminaire

ZTA 70 Surf

CIBSE TM65 Embodied Carbon Mid-level Calculation

Date:	13/10/2021
Assessor/ Organisation:	Stoane Lighting
Contact:	sales@mikestoanelighting.com

Embodied Carbon Results with 'Mid-Level TM65 Calculation' Method Total

30.65 kg CO2e

Through Life (25 year) Embodied Carbon ($kgCO_2e$)

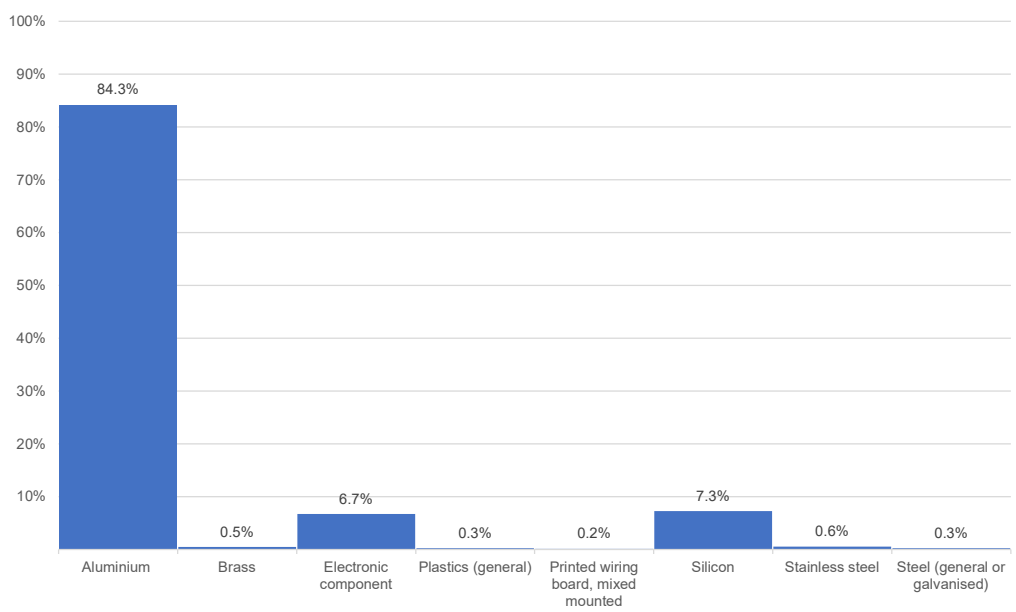
First Build	Repair
26.21	4.44

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

25 year product life

Product Information	
Type of Product	Luminaires
Capacity of Equipment	0.02 kW
Product Weight	0.83 kg
Material Breakdown for at least 95% of the product weight (Y/N)	Y
B3: Materials replaced as part of repair	3.41 kgCO2e
Energy consumption of the factory per unit of product	8.06 kWh
Location of Manufacture	Edinburgh, Edinburgh, City of, United Kingdom
Product Complexity	Category 2

Materials by % of Product Weight



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Embodied Carbon Results Breakdown (kg CO_2e)	
A1: Material Extraction	13.0001
A2: Transport	0.3295
A3: Manufacturing	4.4356
A4: Transport to Site	0.1647
B3: Repair	3.4138
C2: Transport	0.0110
C3: Waste Processing	2.2178
C4: Disposal	0.0041

Embodied Carbon Results (kg CO_2e)	
A1-C4	23.58
A1-C4 with Buffer Factor	30.65

Assumptions	
A1: Material carbon coefficient source	TM65, Table 2.1
C4 Percentage of product going to landfill(%)	55-TM65 Table 4.14

This report was generated using the CIBSE TM65 Manufacturers form 'beta' version. Released in June 2021.
Stoane Lighting are a UK based company.
Files are generated for a 'standard' version of the fitting and may not include calculations for accessories or derivatives.
Only if LED drivers or Power supplies are integral will they be included in the calculation.
Repair embodied carbon is calcualted based on light source and control gear replacement once in the 25 year product life
For more inoformation please contact us via our website shown below.

CIBSE

This report was produced using the CIBSE Tool
Embodied Carbon of MEP Products - June 2021