Badger type X CHSSE TM65.2 Embodied Carbon Mid-level Calculation Date: 11/10/2023 Assess(:/Organisation: Steame Lighting_com Contact: Steame Lighting_com Contact: Steame Lighting_com Embodied Carbon Results with 'Mid-Level TM65 Calculation' Method Total Methodies Carbon (kgCO2e) First Build 49.60 Quarter Strategies Colspan="2">Contact: 0.21 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 10.00% Product Information 10.00% Product Method Foral Luminaires Product Weight Batinais replaced as part of repair Quart of product Leading of Manufacture Product Complexity per unit of product Leading by % of Product Weight Product Complexity Colspan= 50% of the product Weight Colspan= 50% of the product Weight Colspan= 60% of the product Colspan= 60% of the product Colspan= 60% of the product Colspan= 60% of	
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Interview of, United Kingdom Product Complexity Category 2 Materials by % of Product Weight 100% 90%	4
Materials by % of Product Weight 100% 90%	_
90%	-
80%	
70%	
63.54%	
50%	
40%	
30%27.23%	
20%	
10% 4.29% 0.96% 0.04% 0.08% 0.19% 0.73% 1.53%	
Copper Glass Plastics Printed circuit Rubber Stainless steel Nickel Aluminium Aluminium PMMA (ao (general) board mixed Ingot from old primary ingot plexiglas	%
mounted scrap	crylic,
	crylic,

STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

Badger type X

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material Extraction	13.853
A2: Transport	1.034
A3: Manufacturing	15.411
A4: Transport to Site	0.103
B3: Repair	0.162
C2: Transport	0.034
C3: Waste Processing	7.705
C4: Disposal	0.013
Embodied Carbon Results (kg CO ₂ e)	
A1-C4	38.32
A1-C4 with Buffer Factor	49.81
Assumptions	
A1: Material carbon coefficient source	TM65, Table 2.1; TM65.2 Table 9
C4 Percentage of product going to landfill(%)	55% - TM65 Table 4.14

This report was generated using the CIBSE TM65 Manufacturers form 'beta' version V1.3. Released in August 2023 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 flex 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 information please contact us via our website shown below.



This report was produced using the CIBSE documents; TM65 Embodied Carbon of MEP Products - June 2021 TM65.2 Lighting - August 2023

www.stoanelighting.com