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20% 11.93% 14.19%	20% 11.93% 10% 0.97% 0.97% 0.97% 0.97% 0.64% 0.32% 0.32% 0.32% 14.19% 14.1	20% 11.93% 10% 0.97% 0.97% 0.97% 0.64% 0.32% 0.32% 0.32% 14.19% 14.19% 14.19% 14.19% 14.19% 14.19% 14.19%	20% 11.93% 10% 0.97% 0.97% 0.97% 0.97% 0.64% 0.32% 0.32% 0.32% 0.32% Aluminium Ingo from old scrap from old scrap primay ingo PMMA (acrylic, plexiglass)	20% 11.93% 10% 0.97% 0.97% 0.64% 0.32% 0.32% Copper Plastics (general) Printed circuit Board mixed board mixed board mixed board mixed board mixed per still board mixed board mixed per still board mixed boa	20% 11.93% 10% 0.97% 0.97% 0.64% 0.32% 0.32% Copper Plastics Printed circuit Rubber Silicon Stainless steel Aluminium Ingot Aluminium Ingot PMMA (acrylic, plexiglass)	40%	
20% 11.93% 14.19%	20% 11.93% 10% 0.97% 0.97% 0.97% 0.97% 0.97% 0.64% 0.32% 0.32% 14.19% 14.19% 14.19% Multiple	20% 11.93% 14.19% 10% 0.97% 0.97% 0.64% 0.32% 0.32% Copper Plastics (general) Printed circuit board mixed Rubber Silicon Stainless steel Alurininium from old scrap PMAA (acrylic, primary ingot	20% 11.93% 14.19% 10% 0.97% 0.97% 0.64% 0.32% 0.32% Copper Plastics (general) Printed circuit board mixed Rubber Silicon Stainless steel Aluminium Ingo from old scrap Aluminium pimary ingot PMMA (acrylic, plexiglass)	20% 11.93% 10% 0.97% 0.97% 0.64% 0.32% 0.32% Copper Plastics (general) board nixed primary ingot plexiglass)	20% 10% 0.97% 0.97% 0.64% 0.32% 0.32% 14.19% Copper Plastics Printed circuit Bubber Silicon Stainless steel Aluminium Ingot Aluminium Ingot PMMA (acrylic, plexiglass)		
	0.97% 0.97% 0.64% 0.32% 0.32% Copper Plastics (general) Printed circuit board mixed Rubber Silicon Stainless steel Aluminium Ingot from old scrap Aluminium primary ingot PMMA (acrylic, plexiglass)	0.97% 0.97% 0.64% 0.32% 0.32% Copper Plastics (general) Printed circuit board mixed Rubber Silicon Stainless steel Alurninium from old scrap PMMA (acrylic, primary ingot	0.97% 0.97% 0.64% 0.32% 0.32% Image: Composition of the state of t	0.97% 0.97% 0.64% 0.32% 0.32% Main formation Copper Plastics (general) Printed circuit board mixed Rubber Silicon Stainless steel from old scrap Aluminium primary ingot PMMA (acrylic, plexiglass)	0.97% 0.97% 0.64% 0.32% 0.32% Main and the second secon	20%	14.19%
0.97% 0.97% 0.64% 0.32% 0.32%	(general) board mixed from old scrap primary ingot plexiglass)	(general) board mixed from old scrap primary ingot plexiglass)	(general) board mixed from old scrap primary ingot plexiglass)	(general) board mixed from old scrap primary ingot plexiglass)	(general) board mixed from old scrap primary ingot plexiglass)		
Copper Plastics Printed circuit Rubber Silicon Stainless steel Aluminium Ingot Aluminium PMMA (acrylic, (general) board mixed from old scrap primary ingot plexiglass)		mounted	mounted	mounted	mounted	Copper Plastics Printed circuit Rubber Silicon Stainless steel Aluminium Ingot Aluminium ((general) board mixed from old scrap primary ingot	PMMA (acrylic, plexiglass)

STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

Interior LED Channel

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material Extraction	7.110
A2: Transport	0.123
A3: Manufacturing	1.829
A4: Transport to Site	0.012
B3: Repair	6.041
C2: Transport	0.004
C3: Waste Processing	0.914
C4: Disposal	0.002
Embodied Carbon Results (kg CO ₂ e)	
A1-C4	16.04
A1-C4 with Buffer Factor	20.85
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 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.



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

www.stoanelighting.com