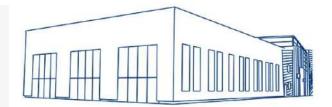


## TM65 Mid-Level Calculation ANGEL-HOOK

Site name Riverside Works

Site address Carbrook Street Sheffield, S9 2JE

Products per year 62,070



Assessment date 01/11/2023

**Assessor** Tasha Lyth

Organisation Gripple Ltd

Contact sustainability@gripple.com

Embodied carbon result with 'mid-level TM65 calculation' method total:

**0.110** (kg CO<sub>2</sub>e)\*

Type of product	Acoustic & lighting supports
Capacity of equipment (M)	1.0 m
Product weight (kg)	0.02 kg
Material breakdown for at least 95% of the product weight (Y/N)	Υ
Service life of the product (years)	25**
Types of refrigerant	N/A
Refrigerant GWP	0.00 kg
Energy consumption of the factory per unit of product (kWh)	0.01 kWh: Electricity, natural gas
Location of manufacture	Sheffield, UK
Product complexity	Category 1: See CIBSE TM65 table 4.3
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<sup>\*\*</sup>Product service life when installed in accordance with Gripple key recommendations, 25 year extended product warranty available at Technical Services discretion.

























<sup>\*</sup>Figure reached using 'Mid-Level' TM65 calculator



## TM65 Mid-Level Calculation **ANGEL-HOOK**



Embodied carbon result with 'mid-level TM65 calculation' method total:

0.110 (kg CO<sub>2</sub>e)\*

Embodied carbon results breakdown (kg CO <sub>2</sub>	<u></u>	
A1: Material extraction	0.068 kg CO <sub>2</sub> e	TM65 assumption
A2: Transport	0.003 kg C0 <sub>2</sub> e	TM65 assumption
A3: Manufacturing	0.002 kg CO <sub>2</sub> e	
A4: Transport to site	0.001 kg CO <sub>2</sub> e	TM65 assumption
B1: Use	0.000 kg CO <sub>2</sub> e	TM65 leakage type 0
B3: Repair	0.008 kg CO <sub>2</sub> e	TM65 assumption
C1: Deconstruction	0.000 kg CO <sub>2</sub> e	TM65 leakage type 0
C2: Transport	0.000 kg CO <sub>2</sub> e	
C3: Waste processing	0.002 kg CO <sub>2</sub> e	
C4: Disposal	0.000 kg C0 <sub>2</sub> e	TM65 assumption

Embodied carbon results - without refrigerant leakage (kg CO <sub>2</sub> e)		
A1-C4 (excluding B1,C1)	0.084 kg CO <sub>2</sub> e	
A1-C4 with Buffer Factor (excluding B1, C1)	0.110 kg CO <sub>2</sub> e	

Embodied carbon result - refrigerant leakage only (kg CO <sub>2</sub> e)		
B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life)	0.000 kg CO <sub>2</sub> e	

Assumptions	
A1: Material carbon coefficient source	Source = CIBSE TM65 table 2.1
B1: Refrigerant annual leakage rate (%)	0%: Source = CIBSE TM65 table 4.13 type 2
C1: Refrigerant end of life recovery rate (%)	100%: Source = CIBSE TM65 table 4.13 type 2
B3: Materials replaced as part of repair (%)	10%: Source = CIBSE TM65
C4: Percentage of product going to landfill (%)	10%: Source = CIBSE TM65

<sup>\*</sup>Figure reached using 'Mid-Level' TM65 calculator \*\*25 years for project work as decided by Gripple Technical Services



















