

CIBSE TM65 Embodied Carbon 'Mid-level' Calculation

16.09.2024 Assesment Date:

Embodied Carbon Result with Organisation: Airflow Developments Ltd 'TM65 Calculation' Method Total:

info@airflow.com Contact email:

954 kg CO₂e



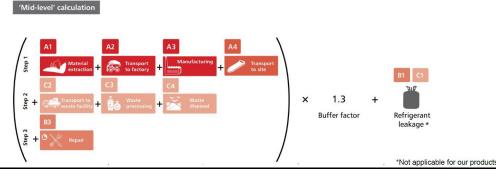


DUPLEXbase PT 500 - Product Information

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Type of product	Mechanical Ventilation with Heat Recovery (MVHR)							
Maximum power input (kW)	0.23							
Product weight (kg)	147							
Material breakdown for at least 95% of	V							
the product weight? (Y/N)	ı							
Service life of the product (years)	15							
Energy consumption of the factory per	0.58							
kg of product (kWh)	0.00							
Location of manufacture	Europe							
Product Complexity	Category 3: High							

TM65 Calculation Methodology

TM65 calculation methodology outlines the need for product embodied carbon assessment related to building services engineering systems. Embodied carbon is understood as the greenhouse gas emissions associated with the manufacture of a product, its installation, maintenance, repair, replacement, and end of life. It covers the whole life cycle, excluding operational aspects and the potential recovery, reuse or recycling of materials. [Ref. CIBSE TM65 Embodied carbon in building services: A calculation methodology (2021)]





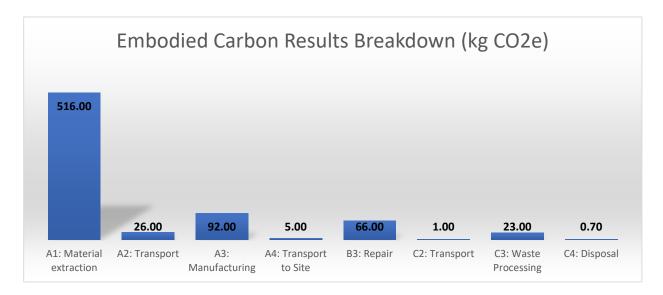
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Em	bo	die	ed	C	arbo	on l	Results	Breako	lown	(kg	CO ₂ e)
		-	•	_								

A1: Material extraction	516.00
A2: Transport	26.00
A3: Manufacturing	92.00
A4: Transport to Site	5.00
B3: Repair	66.00
C2: Transport	1.00
C3: Waste Processing	23.00
C4: Disposal	0.70

Total embodied carbon results (kg CO2e) Mid-Level:

954



Assumptions

A1: Material carbon coefficient source TM65 Table 2.1

A2, A4 and C2 TM65 Table 4.7 & Table 4.8

A2 and A3 Product complexity TM65 Table 4.9

A3: Manufacturing TM65 Table 4.10 & Table 4.11

A4: Transport to site TM65 Table 4.12

C3 and C4 TM65 Table 4.14 & Table 4.15 B3: Repair 10% (TM65 Assumption)

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