

CIBSE TM65 Embodied Carbon 'Mid-level' Calculation

Assesment Date: 10.11.2023

Organisation: Airflow Developments Ltd

Embodied Carbon Result with 'TM65 Calculation' Method Total:

Contact email: info@airflow.com

1939 kg CO₂e







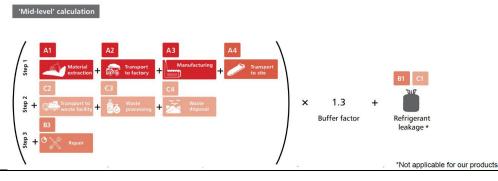


DUPLEXbase PS 2300 - Product Information

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Type of product	Mechanical Ventilation with Heat Recovery (MVHR)	
Maximum power input (kW)	1.66	U
Product weight (kg)	292	
Material breakdown for at least 95% of the product weight? (Y/N)	Υ	
Service life of the product (years)	15	
Energy consumption of the factory per kg of product (kWh)	0.58	
Location of manufacture	Europe	U
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)]





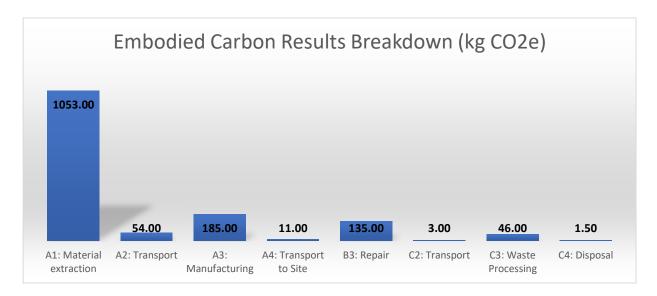
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Embodied Carbon Results Breakdown (kg CO2e)

A1: Material extraction	1053.00
A2: Transport	54.00
A3: Manufacturing	185.00
A4: Transport to Site	11.00
B3: Repair	135.00
C2: Transport	3.00
C3: Waste Processing	46.00
C4: Disposal	1.50

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

1939



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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