

CIBSE TM65 Embodied Carbon 'Mid-level' Calculation

Assesment Date: 26.04.2024

Organisation: Airflow Developments Ltd

Embodied Carbon Result with 'TM65 Calculation' Method Total:

Contact email: info@airflow.com

3242 kg CO₂e



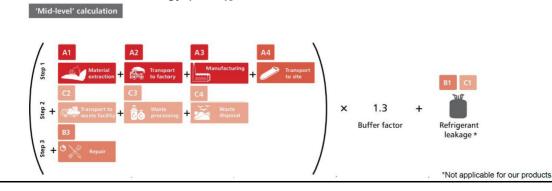


DUPLEXbase PT 2800 - Product Information

DUPLEXBASE PT 2800 - Product Information		
Type of product	Mechanical Ventilation with	
'' '	Heat Recovery (MVHR)	
Maximum power input (kW)	1.66	
Product weight (kg)	518	
Material breakdown for at least 95% of	v	
the product weight? (Y/N)	'	
Service life of the product (years)	15	
Energy consumption of the factory per	0.43	п
kg of product (kWh)	0.40	
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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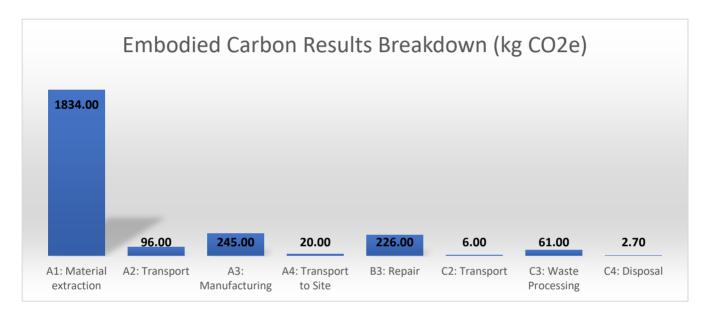
Embodied Carbon Results Breakdown (kg CO2e) A1: Material extraction 1834.00

A2: Transport 96.00 A3: Manufacturing 245.00 A4: Transport to Site 20.00 B3: Repair 226.00

C2: Transport C3: Waste Processing 61.00 C4: Disposal 2.70

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

3242



6.00

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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