## AIRFLOW 父

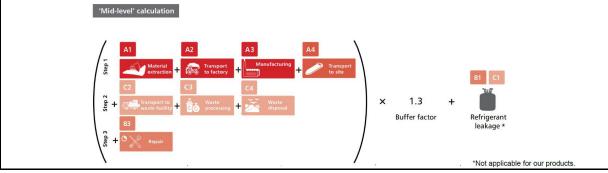
## **CIBSE TM65 Embodied Carbon 'Mid-level' Calculation**



DUPLEXbase PS 4500 - Product Info	ormation	
Type of product	Mechanical Ventilation with	
Type of product	Heat Recovery (MVHR)	
Maximum power input (kW)	5	
Product weight (kg)	408	
Material breakdown for at least 95%	V	
of the product weight? (Y/N)	T	
Service life of the product (years)	15	
Energy consumption of the factory per	0.58	
kg of product (kWh)	0:58	
Location of manufacture	Europe	u 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)]



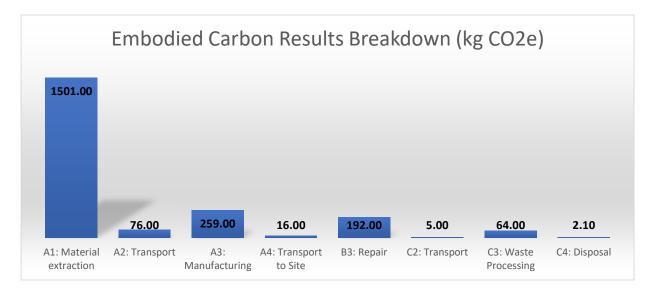
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### **CIBSE TM65 Embodied Carbon 'Mid-level' Calculation**

Embodied Carbon Results Breakdown (kg CO₂e)			
A1: Material extraction	1501.00		
A2: Transport	76.00		
A3: Manufacturing	259.00		
A4: Transport to Site	16.00		
B3: Repair	192.00		
C2: Transport	5.00		
C3: Waste Processing	64.00		
C4: Disposal	2.10		

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

2754



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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