Embodied Carbon Calculator: Basic Report

Basic calculation



Date of assessment



Notes/source

Form "dd/mm/vv"

If Section A of the 'Input' tab is correctly completed, the results will be shown here.

Please complete all purple and vellow cells.

Name of assessor and assessor organisation

If you would like to assist CIBSE in building knowledge on the embodied carbon of products used in building services, please complete as directed, name this file as instructed in the "introduction and instruction" tab. and email this file to embodied carbonoscibee ore.

Basic report for 205-230 as manufactured by Excel

30/11/23

Self Assessment

Contact email address of assessor	sales@mayflex.com				
Product information					
Type of product	Cables				
Capacity of equipment/size (kW; m³; litre; etc.)	1 m				
Product weight (kg)	0.04 kg				
Material % breakdown for at least 95% of the product weight? (Y/N)	Y				
Product service life (years)	25 Years				
If refrigerant based, type of refrigerant used and GWP	No refrigerant, 0 kgCO2e				
Refrigerant charge (kg)	0.00 kg				
Product complexity category	Category 1	See CIBSE TM65 Table 4.3			
Embodied carbon results (kg CO₂e) — without refrigerant leakage					
A1: Material extraction (original product)	0.125 kgCO2e				
A1: Material extraction (components that are replaced in B3)	0.013 kgCO2e				
M1-A4, B3, C2-C4: Total embodied carbon with scale-up and ouffer factor (excluding refrigerant leakage)	0.233 kgCO2e				

Embodied carbon result (kg $\mathrm{CO_{2}e}$) — refrigerant leakage only				
B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)		0.000 kgCO2e	TM65 leakage Type 0	
Embodied carbon result with 'basic' calculation method (kg CO2e) — total				

Result of 'basic' calculation method 0.233 kgCO2e

Assumptions
A1: Material carbon coefficient source CIBSE TM65, Table 2.1 E.q: Source = CIBSE TM65, Table 2.1

	A1: Material carbon coefficient source	CIBSE TM65, Table 2.1	E.g: Source = CIBSE TM65, Table 2.1
	B1: Refrigerant annual leakage rate (%)	CIBSE TM65, Table 4.4 Type 0	E.g: Source = CIBSE TM65, Table 4.4 type 2
	C1: Refrigerant end of life recovery rate (%)	CIBSE TM65, Table 4.4 Type 0	E.g: Source = CIBSE TM65, Table 4.4 type 2
	B3: Materials replaced as part of repair (%)	CIBSE TM65, Table 2.1	E.g: Source = CIBSE TM65, Table 2.1

	Details
Please provide any relevant details	

Information disclosure	Select Yes if you agree	Notes
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research purposes, on the condition that all identifying	Yes	
information is removed from any published output.		
I consent to CIBSE's use of the data contained in this form in		
order to establish an embodied carbon database for products	Yes	
used in building services.		