Embodied Carbon Calculator: Basic Report



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 yellow cells.

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 Instructions' tab, and email this file to embodiedcarbon@cibse.org.

Basic report for 100-327 as manufactured by Excel

30/11/23

Name of assessor and assessor organisation	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)	0.03 kg			
Material % breakdown for at least 95% of the product weight?	Y			
(Y/N)	'			
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 CO ₂ e) — without refrigerant leakage				
A1: Material extraction (original product)	0.117 kgCO2e			
A1: Material extraction (components that are replaced in B3)	0.012 kgCO2e			
A1-A4, B3, C2-C4: Total embodied carbon with scale-up and	0.218 kgCO2e			
buffer factor (excluding refrigerant leakage)	0.210 kgC02e			

	Embodied carbon result (kg C	O ₂ e) — refrigerant leakage only
akage during use) +		

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 0.218 kgCO2e

Basic calculation

Assumptions			
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 (%)	CIRSE TM65 Table 2.1	F a: Source = CIRSF TM65 Toble 2.1	

Details

Please provide any relevant details

Information disclosure	Select Yes if you agree	Notes
I consent to CIBSE's use of the data contained in this form for		
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.		