Embodied Carbon Calculator: Basic Report

Basic calculation



Date of assessment



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 190-219 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.)	500 m					
Product weight (kg)	27.20 kg					
Material % breakdown for at least 95% of the product weight?	Υ					
(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)	94.139 kgCO2e					
A1: Material extraction (components that are replaced in B3)	9.414 kgCO2e					
A1-A4, B3, C2-C4: Total embodied carbon with scale-up and	175.005 kgCO2e					
buffer factor (excluding refrigerant leakage)	175.005 kgCOZE					

Embodied carbon result (kg CO₁e) - 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 175.005 kgCO2e

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
R3: Materials replaced as part of repair (%)	CIDSE TMAS. Table 2.4	E a: Source - CIBSE TM45 Table 2 1

Details

Please provide any relevant details

	Information disclosure	Select Yes if you agree	Notes
Ιc	consent to CIBSE's use of the data contained in this form for		
re:	search purposes, on the condition that all identifying	Yes	
int	formation is removed from any published output.		
Ιc	consent to CIBSE's use of the data contained in this form in		
on	der to establish an embodied carbon database for products	Yes	
1			