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

Basic report for 100-371 as manufactured by Excel

30/11/23

Self Assessment

Contact email address or assessor	sales@mayrlex.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 $\mathrm{CO}_{2}\mathrm{e})$ — 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)					

	Embodied carbon result	(kg CO ₂ e) — refrigerant leakage only
31 (refrigerant leakage during use) +		0.000 kaCO3a

Basic calculation

15 (terringerant teakage during use) * 0.000 kgCO2e TM65 leakage Type 0 C1 (refrigerant leakage at end of life)

Embodied carbon result with 'basic' calculation method (kg CO2e) — total Result of 'basic' calculation method 0.218 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
B3: Materials replaced as part of repair (%)	CIBSE TM65, Table 2.1	F. g: Source = CIBSE TM65, Table 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.		