

# Embodied Carbon Calculator: Mid-level Report

(CIBSE TM65 Digital Tool)



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 above, name this file as instructed in the 'Introduction and Instructions' tab, and email this file to [embodiedcarbon@cibse.org](mailto:embodiedcarbon@cibse.org).

If you are a manufacturer and would like to share the results of your calculations with clients, please create PDFs of the relevant tabs ONLY (instructions are available in the 'Introduction and Instructions' tab). You may not share any CIBSE tool with clients. Instead, please refer any interested party to [www.cibse.org/TM65](http://www.cibse.org/TM65), where they will be able to download the most up-to-date version of the relevant CIBSE tool.

## Mid-level report for 212-120 as manufactured by Excel

| 'Mid-level' calculation                    |                                                          | Notes/source    |
|--------------------------------------------|----------------------------------------------------------|-----------------|
| Date of assessment                         | 05/05/26                                                 | Form "dd/mm/yy" |
| Name of assessor and assessor organisation | Self Assessment                                          |                 |
| Contact email address of assessor          | <a href="mailto:sales@mayflex.com">sales@mayflex.com</a> |                 |

| Product information                                                |                                       |                          |
|--------------------------------------------------------------------|---------------------------------------|--------------------------|
| Type of product                                                    | Cable Containment                     |                          |
| Capacity of equipment/size (kW; m <sup>3</sup> ; litres; etc.)     | 0.0001548 m <sup>3</sup>              |                          |
| Product weight (kg)                                                | 0.08 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 kgCO <sub>2</sub> e |                          |
| Refrigerant charge (kg)                                            | 0.00 kg                               |                          |
| Energy consumption of the factory* per unit of product             | 0.02 kWh                              | Electricity - Asia       |
| Location of manufacture*                                           | Shenzhen, Guangdong, China            |                          |
| Product complexity category                                        | Category 1                            | See CIBSE TM65 Table 4.3 |

| Embodied carbon results (kg CO <sub>2</sub> e) – breakdown |                           |                     |
|------------------------------------------------------------|---------------------------|---------------------|
| A1: Material extraction                                    | 0.251 kgCO <sub>2</sub> e | TM65 assumption     |
| A2: Transport                                              | 0.016 kgCO <sub>2</sub> e | TM65 assumption     |
| A3: Manufacturing                                          | 0.014 kgCO <sub>2</sub> e |                     |
| A4: Transport to site                                      | 0.017 kgCO <sub>2</sub> e | TM65 assumption     |
| A5: Construction                                           | n/a                       |                     |
| B1: Refrigerant leakage during use                         | 0.000 kgCO <sub>2</sub> e | TM65 leakage Type 0 |
| B2: Maintenance (if information given by manufacturer)     | n/a                       |                     |
| B3: Repair                                                 | 0.031 kgCO <sub>2</sub> e | TM65 assumption     |
| B4: Replacement                                            | n/a                       |                     |
| B5: Refurbishment                                          | n/a                       |                     |
| B6: Operational energy                                     | n/a                       |                     |
| B7: Operational water                                      | n/a                       |                     |
| C1: Refrigerant leakage when decommissioning               | 0.000 kgCO <sub>2</sub> e | TM65 leakage Type 0 |
| C2: Transport                                              | 0.001 kgCO <sub>2</sub> e |                     |
| C3: Waste processing                                       | 0.014 kgCO <sub>2</sub> e |                     |
| C4: Disposal                                               | 0.000 kgCO <sub>2</sub> e | TM65 assumption     |

| Embodied carbon results (kg CO <sub>2</sub> e) – without refrigerant leakage |                           |  |
|------------------------------------------------------------------------------|---------------------------|--|
| A1-C4 without buffer factor (excluding B1, C1)                               | 0.345 kgCO <sub>2</sub> e |  |
| A1-C4 with buffer factor (excluding B1, C1)                                  | 0.449 kgCO <sub>2</sub> e |  |

| Embodied carbon result (kg CO <sub>2</sub> e) – refrigerant leakage only      |                           |  |
|-------------------------------------------------------------------------------|---------------------------|--|
| B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life) | 0.000 kgCO <sub>2</sub> e |  |

| Embodied carbon result with 'mid-level' calculation method (kg CO <sub>2</sub> e) – total |                           |  |
|-------------------------------------------------------------------------------------------|---------------------------|--|
| Result of 'mid-level' calculation method                                                  | 0.449 kgCO <sub>2</sub> e |  |

| Assumptions                                     |                                |                                              |
|-------------------------------------------------|--------------------------------|----------------------------------------------|
| A1: Material carbon coefficient source          | Source = CIBSE TM65, Table 2.1 | E.g.: Source = CIBSE TM65, Table 2.1         |
| B1: Refrigerant annual leakage rate (%)         | 0%                             | E.g.: Source = CIBSE TM65, Table 4.13 type 2 |
| C1: Refrigerant end of life recovery rate (%)   | 100%                           | E.g.: Source = CIBSE TM65, Table 4.13 type 2 |
| B3: Materials replaced as part of repair (%)    | 10%                            | E.g.: Source = CIBSE TM65                    |
| C4: Percentage of product going to landfill (%) | 50%                            | E.g.: Source = CIBSE TM65                    |