

# TM65 Mid-Level Calculation

## FTB-670

|                   |                                      |
|-------------------|--------------------------------------|
| Site name         | Norfolk Bridge Works                 |
| Site address      | 11 Leveson Street, Sheffield, S4 7ER |
| Products per year | 33.970                               |



|                 |                            |
|-----------------|----------------------------|
| Assessment date | 29/06/2022                 |
| Assessor        | Tasha Lyth                 |
| Organisation    | Gripple Ltd                |
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Embodied carbon result with 'mid-level TM65 calculation' method total:

**6.414 (kg CO<sub>2</sub>e)\***

|   |   |
|---|---|
| Type of product   | MEP supports and bracketry              |
| Capacity of equipment (M)                                       | 0.67 m                                  |
| Product weight (kg)   | 1.32 kg                                 |
| Material breakdown for at least 95% of the product weight (Y/N) | Y                                       |
| Service life of the product (years)                             | 25**                                    |
| Types of refrigerant  | N/A                                     |
| Refrigerant GWP   | 0.00 kg                                 |
| Energy consumption of the factory per unit of product (kWh)     | 0.50 kWh:<br>Electricity, natural gas   |
| Location of manufacture   | Sheffield, UK                           |
| Product complexity  | Category 1:<br>See CIBSE TM65 table 4.3 |



\*Figure reached using 'Mid-Level' TM65 calculator

\*\*Product service life when installed in accordance with Gripple key recommendations, 25 year extended product warranty available at Technical Services discretion.

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Embodied carbon result with 'mid-level TM65 calculation' method total:

6.414 (kg CO<sub>2</sub>e)\*

### Embodied carbon results breakdown (kg CO<sub>2</sub>e)

|                         |                            |                     |
|-------------------------|----------------------------|---------------------|
| A1: Material extraction | 3.952 kg CO <sub>2</sub> e | TM65 assumption     |
| A2: Transport           | 0.261 kg CO <sub>2</sub> e | TM65 assumption     |
| A3: Manufacturing       | 0.120 kg CO <sub>2</sub> e |                     |
| A4: Transport to site   | 0.052 kg CO <sub>2</sub> e | TM65 assumption     |
| B1: Use                 | 0.000 kg CO <sub>2</sub> e | TM65 leakage type 0 |
| B3: Repair              | 0.409 kg CO <sub>2</sub> e | TM65 assumption     |
| C1: Deconstruction      | 0.000 kg CO <sub>2</sub> e | TM65 leakage type 0 |
| C2: Transport           | 0.017 kg CO <sub>2</sub> e |                     |
| C3: Waste processing    | 0.120 kg CO <sub>2</sub> e |                     |
| C4: Disposal            | 0.001 kg CO <sub>2</sub> e | TM65 assumption     |

### Embodied carbon results - without refrigerant leakage (kg CO<sub>2</sub>e)

|   |                            |
|---|----------------------------|
| A1-C4 (excluding B1,C1)                     | 4.943 kg CO <sub>2</sub> e |
| A1-C4 with Buffer Factor (excluding B1, C1) | 6.414 kg CO <sub>2</sub> e |

### Embodied carbon result - refrigerant leakage only (kg CO<sub>2</sub>e)

|  |                            |
|--|----------------------------|
| B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life) | 0.000 kg CO <sub>2</sub> e |
|--|----------------------------|

### Assumptions

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

\*Figure reached using 'Mid-Level' TM65 calculator \*\*25 years for project work as decided by Gripple Technical Services

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Gripple's policy is one of continuous development and innovation. We therefore reserve the right to alter specifications, etc. without notice.



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