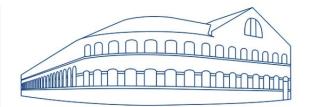


## TM65 Mid-Level Calculation HF2 - Hanger

Site name Old West Gun Works

Site address Savile Street East Sheffield, S9 7UQ

Products per year 3,440,714



Assessment date 29/07/2022

Assessor Tasha Lyth

Organisation Gripple Ltd

Contact sustainability@gripple.com Embodied carbon result with 'mid-level TM65 calculation' method total:

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

| 1.0 m                                   |
|---|
| 0.01 kg                                 |
| Υ                                       |
| 25**                                    |
| N/A                                     |
| 0.00 kg                                 |
| 0.07 kWh:<br>Electricity, natural gas   |
| Sheffield, UK                           |
| Category 1:<br>See CIBSE TM65 table 4.3 |
|   |





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



























<sup>\*</sup>Figure reached using 'Mid-Level' TM65 calculator



## TM65 Mid-Level Calculation

## HF2 - Hanger



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

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

| Embodied carbon results breakdown (kg CO,e) |                            |                     |
|---|----------------------------|---------------------|
| A1: Material extraction                     | 0.057 kg CO <sub>2</sub> e | TM65 assumption     |
| A2: Transport                               | 0.003 kg CO <sub>2</sub> e | TM65 assumption     |
| A3: Manufacturing                           | 0.002 kg CO <sub>2</sub> e |                     |
| A4: Transport to site                       | 0.001 kg CO <sub>2</sub> e | TM65 assumption     |
| B1: Use                                     | 0.000 kg CO <sub>2</sub> e | TM65 leakage type 0 |
| B3: Repair                                  | 0.006 kg CO <sub>2</sub> e | TM65 assumption     |
| C1: Deconstruction                          | 0.000 kg CO <sub>2</sub> e | TM65 leakage type 0 |
| C2: Transport                               | 0.000 kg CO <sub>2</sub> e |                     |
| C3: Waste processing                        | 0.002 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)  | 0.069 kg CO <sub>2</sub> e |  |
| A1-C4 with Buffer Factor (excluding B1, C1)                                  | 0.090 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 C0 <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 (%) | 50%: Source = CIBSE TM65                    |

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



TM65-ENG-HF2





