

## 55 Portland Street Waste Management Strategy- Rev 03

24th November 2021

The following Waste Management Strategy is compliant with BS5906:2005.

The proposal is for a project at 55 Portland Street, Manchester, which includes the construction of a new build 329 bedroom hotel with associated ancillary bar, restaurant and public area, business suite, together with hotel drop-off / service bay, boundary treatments and associated works. The strategy for waste management for the proposed building is described below.

### Number of bins provided

In accordance with BS5906:2005, the typical weekly waste arising from the development will be 350 litres per bedroom per week. There are 329 bedrooms in the hotel. Therefore, the proposed building will generate a total of 115,150 litres per week (350 litres X 329 rooms). In addition, there will be a refuse requirement for the restaurant / bar and business centre at ground, mezzanine and first floor levels. Therefore, the total refuse requirement for the hotel is 155,864 litres ((115,150 litres (hotel rooms) plus 37,500 litres (restaurant and bar) plus 3,214 litres (business centre) per week).

The proposed frequency of refuse collections per week is 14. It is proposed the refuse bins will have a 1,100 litre capacity. Therefore, the refuse room will need to accommodate a minimum of 11 number 1,100 litre capacity bins  $[(155,864 \text{ litres per week} \div 1,100 \text{ litre bin}) \div 14 \text{ collections per week}] + [(1,559 \text{ litres per week} \div 240 \text{ food recycling litre bin}) \div 7 \text{ collections per week}]$ .

The refuse will be accommodated in different bins, relating to the type of waste. These types include general refuse (49%), pulvable recycling (25%), mixed recycling (25%) and food recycling (1%). This equates to 5 number 1100ltr containers for general refuse, 3 number 1100ltr containers for pulvable recycling, 3 number 1100ltr containers for mixed recycling and 1 number 240ltr containers for food recycling. The minimum number of 1,100 litre bins required is 11.

### Bin storage area

The appended drawing 7410-al(05)200-P04, illustrates 11 number 1,100 litre bins and 1 number 240 litre bins located within a dedicated refuse room at ground floor level (highlighted in green), which is to be mechanically ventilated. The bin store has a dedicated area to wash the bins. For convenience, this room is adjacent to the proposed service lift and has direct access to a lay-by on Sackville Street from where the refuse vehicle will park.

### Bin collection arrangements

The hotel management will be responsible to move the refuse bins from the refuse room (highlighted in green) and temporarily stored on the pavement of Sackville Street opposite the proposed lay-by where the refuse vehicle (highlighted in red) will be parked. Thereafter, the bins will be returned to the refuse rooms. It is expected the duration of the refuse collection will be about 5 minutes.

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## refuse schedule for a hotel in 55 Portland Street, Manchester - Rev 03

24th November 2021

| Hotel                     |                   |                 |                |                                      |
|---------------------------|-------------------|-----------------|----------------|--------------------------------------|
|                           | units             | litres per week | volume         | 1100 containers per week / 14        |
| beds                      | 329               | 350             | 115,150        |                                      |
| restaurant (covers)       | 180               | 75              | 13,500         |                                      |
| bar (covers)              | 320               | 75              | 24,000         |                                      |
| business centre (m2)      | 450               | 50              | 3,214          |                                      |
| total                     |                   |                 | <b>155,864</b> | 11                                   |
| <b>Refuse waste</b>       |                   |                 |                |                                      |
|                           | <b>% of waste</b> |                 | <b>volume</b>  | <b>1100 containers per week / 14</b> |
|                           | 49%               |                 | 76,374         | 5                                    |
| <b>Pulpable recycling</b> |                   |                 |                |                                      |
|                           | <b>% of waste</b> |                 | <b>volume</b>  | <b>1100 containers per week / 14</b> |
|                           | 25%               |                 | 38,966         | 3                                    |
| <b>mixed recycling</b>    |                   |                 |                |                                      |
|                           | <b>% of waste</b> |                 | <b>volume</b>  | <b>1100 containers per week / 14</b> |
|                           | 25%               |                 | 38,966         | 3                                    |
| <b>food recycling</b>     |                   |                 |                |                                      |
|                           | <b>% of waste</b> |                 | <b>volume</b>  | <b>240 containers per week / 7</b>   |
|                           | 1%                |                 | 1,559          | 1                                    |
| <b>TOTAL</b>              |                   |                 |                |                                      |
|                           |                   |                 |                | <b>1100 containers per week/ 14</b>  |
|                           |                   |                 |                | 11                                   |

