

Refuse Chute Management

1. Introduction

This strategy is produced further to condition 34 attached to decision notice 125573/FO/2019

34) Notwithstanding the details within 2 (i) prior to occupation of each phase details of the maintenance and management of the refuse chutes including full bin rotation, cleaning, odour and noise control shall be submitted to and approved in writing by the City Council as local planning authority. The details of the approved scheme shall be implemented prior to occupation shall remain in situ whilst the use or development is in operation.

2. Strategy

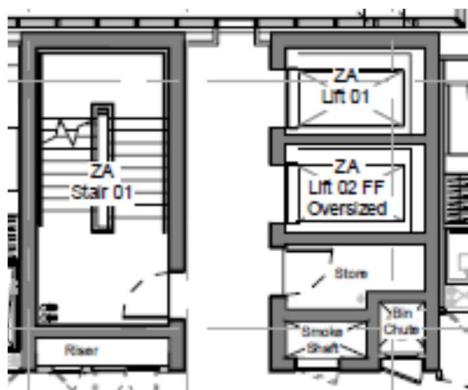
The development has been designed to comply with Manchester City Council's document 'Waste and Recycling Storage and Collection Requirements Guidance for Architects and Developers'. Within the refuse and recycling store, the bins will be rotated regularly for effective bin chute usage. The residents will be responsible for the deposit of all refuse and recycling into the correct chutes.

The management team will ensure that: -

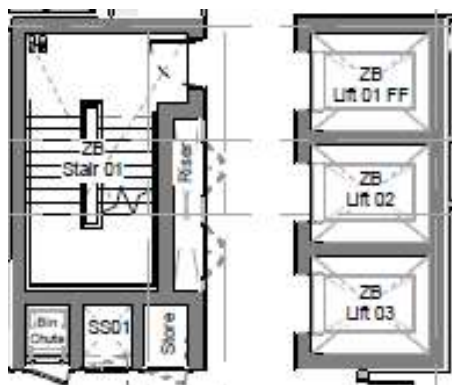
- all refuse is stored safely and collected as frequently as is required to maintain sufficient capacity for waste.
- the bin stores are cleaned and disinfected as often as is necessary to prevent pest infestations and odour.
- the bin chutes are serviced at quarterly intervals as recommended by specialist maintenance contractor.
- when notified by the bin chute automated alert system that bins are rotated for effective bin chute usage
- bin chutes are deep cleaned at quarterly intervals to prevent odour.
- residents are aware on how to use the bin chutes – using bags, keeping them clean, no large items, ensuring full disposal etc.

Each of Blocks A and B have their own recycling chute, located on the main lift/stair core as below.

Block A



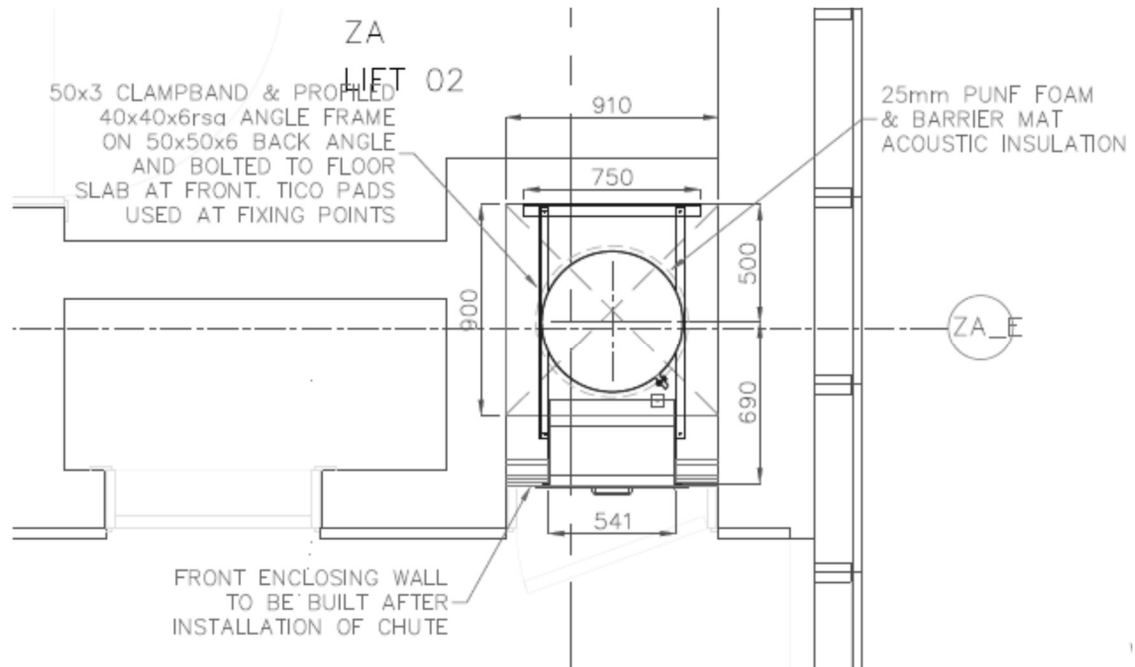
Block B



The chute is fitted in its own dedicated concrete shaft.

The shaft is ventilated to avoid the build up of smells, but the chute is also enclosed with a stud wall at the front, and further screened by a door.

In addition to the acoustic performance of the concrete walls, the chute is wrapped with an acoustic foam.



The chute installed is a Hardall with Slow-closing Grey Hammer hoppers which conform to BS1703:2005

Access is provided on every floor. Behind the screening door, the resident will be faced with a chute door control panel which will open the door after the appropriate waste stream is identified – either general waste or recycling. The doors will not open if the bin is full or the chute is already in use – warning lights are provided on the front panel explaining this.

Once selected, the Tri Separator unit will set to position. Whilst this occurs the LED indicator will flash until the separator is set, the LED indicator will then stay illuminated and the interlock system will release the hopper for use. The electrical interlock mechanism provides a full automated lock-off of all remaining hopper doors on that Chute system when one is in use. The purpose of this is to avoid colliding waste and eliminate cross contamination.



The chutes come with an Auto-Clean system. This disinfectant and sanitizing device is contained within its own housing above the top entry of the Chutes which is made accessible for maintenance and inspection purposes through a Side Hung Access Door with lock and key. Activated by a push of a button, from the Main Control panel located in the bin stores, the Auto-clean system will begin its cleaning cycle. A cylindrical brush gear will travel down the Chute assisted by the spraying of disinfectant cleaning the complete internals of the main body until it reaches the discharge section.

The device will then retract and repark at the top of the Chute within its housing leaving the Chutes cleaned, sanitised and available to use.

Contained within the cleaning housings will be a Class 'F' continuously rated foul-air extractor fan capable of displacing **324m³ per hour**.

Two bins are located at the bottom of the chute, and the bi=separator on the chute directs the waste to the appropriate bin.

Container Volume Sensors (CVS) will be mounted to the system constantly monitoring the waste levels. Once the containers are $\frac{3}{4}$ full, the sensors will send notification out via the Building Management System as well as to the remote monitors, located at the concierge/maintenance desk, with an alert to change over the bin.

