



Recycling 30120 ltr  
**Commercial 221 m2** equal 125 x 240 ltr bins  
**equal to 331 waste and 331 recycling**

**Building B 65 units**

65 units @ 120 ltr per weeks 7800 ltrs. equal 12 x 660 ltr bins  
**Compacted compacted = 6 x 660 bins**  
Recycling 7800 ltr equal 33 x 240 ltr bins

**Building C: 160 units**

160 units @ 120 ltr per weeks 19200 ltrs. equal 30 x 660 ltr bins  
**Compacted compacted = 15x 660 bins**  
Recycling 19200 ltr equal 80 x 240 ltr bins

**Building D: 207 units**

207 units @ 120 ltr per weeks 24840 ltrs. equal 38 x 660 ltr bins  
**Compacted compacted = 19 x 660 bins**  
Recycling 248400 ltr equal 103 x 240 ltr bins  
**Commercial 479 m2 equal to 720 waste and 720 recycling**

**Building E 50 units**

50 units @ 120 ltr per weeks 6000 ltrs. equal 9 x 660 ltr bins  
**Compacted compacted = 5 x 660 bins**  
Recycling 6000 ltr equal 25 x 240 ltr bins  
**Commercial 394 m2 equal to 590 waste and 590 recycling**

**Waste management system:**

As shown on the drawings there is one chute per core in each buildings with inlet on every residential and retail level and area for a recycling bin in each chute inlet room.

**Waste handling.**

All residents and retails personnel will deposit their garbage in the chute located in a designated room on each level.

With the number of bins generated weekly & to reduce management cost, recommendation to compact all the garbage under the chutes with an Elephant's Foot 660 ltr bin compactor & carousel conveyor.

As for the recycling, in each garbage room on the levels an area is made available for 240 ltr recycling bins to be placed for the occupants to deposit the recycling material. Part of the cleaner's duty will be to exchange these recyclables bins & store them in the main garbage rooms below ready for collection.

### **Garbage rooms & bins:**

As mentioned above the waste will be compacted at a ratio of 2:1 reducing the bins by half.

Building "E" is situated on Gauthorpe Street where the main drive is located as well as the main garbage and recycling holding room.

When all bins are full it will be the caretaker's duty to transfer all the bins to the main holding room in building "E" and store them ready for collection.

**Total bins after compaction: 72 x 660 ltr garbage bins & 370 x 240 recycling bins, including all retail waste.**

### **Garbage chute:**

All chute doors on the levels will be labelled with signs encouraging the occupants to recycle & minimize their waste, stating " ONLY GARBAGE IN THE CHUTE", a separate sign will be positioned instructing the residents how & where to place the recyclables, instead of in the chute.

### **Compactors:**

The chutes fitted with 660 ltr compactor & carousel conveyor, the waste from the chutes will fall directly in the 660 ltr bins on the conveyor, when this bin is filled with un-compacted waste, the compactor will start automatically & compact the waste, this will continue until the bin is full of compacted material, the conveyor will start automatically & move the full bin away & replace it with an empty one.

When all bins are filled with compacted waste a red light will indicate on the control panel, it is the caretaker's duty to remove the full bins & replace them with empty ones & re-set the conveyor in the start position.

### **Waste collection:**

With all bins stored in the main holding room, the service truck will enter the building from Gauthorpe St, reverse to the double door and empty all bins.

The recycling and garbage bins will be stored separately.

Due to the large amount of bins generated we recommend twice weekly collection for garbage and recycling.

### ***Further recommendations and savings:***

*The total number of recycling bins can be reduced by up to 40% by installing an Elephant's Foot vertical baler to compact all the cardboard into nice dense 80 to 100 kg bales, that can be collected by a recycling firm and rebates may be applicable according to volumes, offsetting management cost.*

### **Garbage rooms construction requirements:**

The garbage room will be require to contain the following facilities to minimize odours, protect surroundings areas & make it a user friendly & safe area:

- 1- The room floor to be sealed with a two pack epoxy
- 2- All corners coved and sealed 100 mm up, this is to eliminate build up of germs.
- 3- A hot & cold water facility provided for washing all the bins.
- 4- A bucket trap type floor waste installed where all concrete levels are to direct the water to.
- 5- All wall painted with light colour & washable paint.
- 6- Equipment electric out lets to be installed 1700 mm above FFL.
- 7- The room must be mechanically ventilated
- 8- Optional automatic odour pest control system installed to eliminating all pest types. "This can be done after hand over where management can install if needed"
- 9- All hinged doors are to self closing, roller doors must be key operated with only access to authorised personnel.
- 10- Garbage collection area, must be provided adjacent to the garbage room with in the building envelope, all bin movements should on even surface away from ramps.

**P.S. The above numbers are only a guide to assist with the waste management of these buildings.**

**If you require any further information please do not hesitate to call me on 9780 3500.**

**Regards,**



**Eddy Saidi**