

Waste Management Plan



Prepared for: Meriton Apartments

Project Site: Stage 3 – Buildings 11 12 13 14 15 16 & 17
81 Mobbs Lane
Epping Park

Date of Issue: 25th March 2013

Prepared by: Kristian Horana – Project Coordinator



WASTECH SERVICES PTY LTD

Free Call: 1800 465 465

Online: wastech.com.au

ABN: 52 059 404 152

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1. INTRODUCTION

Wastech Services Pty Ltd was commissioned by Meriton to prepare a waste and recycling plan associated with a proposed development to be located at 81 Mobbs Lane Epping Park.

The project consists of:

- Building 11 - Residential Apartments (47);
- Building 12 - Residential Apartments (78);
- Building 13 - Residential Apartments (36);
- Building 14 - Residential Apartments (36);
- Building 15 - Residential Apartments (43);
- Building 16 - Residential Apartments (43);
- Building 17 - Residential Apartments (41);

Scope: Wastech Services will review the building layout drawings and apartment details and provide a Waste Management Plan including the following:

- Calculation of weekly waste and recyclable volumes
- Provide recommendations for compaction, storage and transportation of waste and recyclables within the building
- Highlight relevant design issues that may affect the handling and movement of Waste and Recyclables within the development
- Include technical brochures and drawings for recommended equipment
- Provide recommendation for collection vehicle type
- Reference collection companies and/or council collection/disposal services
- Provide a bound, hard copy and electronic version of the report

All recommendations and equipment shall be in compliance with council codes, BCA, Australian Standards, and statutory requirements.

The results of the above analyses are outlined in the following sections.

3. WASTE MANAGEMENT PLAN

This waste management plan is based on the following conditions

3.1 Inclusions

- On-going use of the premises. Does not include demolition or construction stages.
- Figures and calculations are based on drawings and information supplied by Meriton Apartments.
- Waste volume figures are estimates only and will be influenced by the tenant, resident and operator's disposition toward waste disposal and recycling, and by the development's occupancy rate. Refer to the enclosed tables for rates and assumptions.

3.2 Exclusions

- Hard rubbish and green/garden wastes. Disposal shall be arranged by the building manager via appropriate contractors.

3.3 Refuse Room Dimensions

The Building 11 refuse room shall be sufficiently sized to accommodate the garbage equipment and bins specified within this report.

BUILDING 11 - REFUSE ROOM DIMENSIONS				
Bin Type	Length (mm)	Width (mm)	Quantity	Area Required (m ²)
240 litre	585	730	12	5.12
1100 litre	1240	1070	4	5.31
TOTAL AREA REQUIRED				10.43
(does not include area required for bin movements)				

The Building 12 refuse rooms shall be sufficiently sized to accommodate the garbage equipment and bins specified within this report.

BUILDING 12 CHUTE A - REFUSE ROOM DIMENSIONS				
Bin Type	Length (mm)	Width (mm)	Quantity	Area Required (m ²)
240 litre	585	730	10	4.27
1100 litre	1240	1070	3	3.98
TOTAL AREA REQUIRED				8.25
(does not include area required for bin movements)				

BUILDING 12 CHUTE B - REFUSE ROOM DIMENSIONS					
Bin Type		Length (mm)	Width (mm)	Quantity	Area Required (m ²)
240	litre	585	730	11	4.70
1100	litre	1240	1070	3	3.98
TOTAL AREA REQUIRED					8.68
(does not include area required for bin movements)					

The Building 13 refuse room shall be sufficiently sized to accommodate the garbage equipment and bins specified within this report.

BUILDING 13 - REFUSE ROOM DIMENSIONS					
Bin Type		Length (mm)	Width (mm)	Quantity	Area Required (m ²)
240	litre	585	730	9	3.84
1100	litre	1240	1070	3	3.98
TOTAL AREA REQUIRED					7.82
(does not include area required for bin movements)					

The Building 14 refuse room shall be sufficiently sized to accommodate the garbage equipment and bins specified within this report.

BUILDING 14 - REFUSE ROOM DIMENSIONS					
Bin Type		Length (mm)	Width (mm)	Quantity	Area Required (m ²)
240	litre	585	730	9	3.84
1100	litre	1240	1070	3	3.98
TOTAL AREA REQUIRED					7.82
(does not include area required for bin movements)					

The Building 15 refuse room shall be sufficiently sized to accommodate the garbage equipment and bins specified within this report.

BUILDING 15 - REFUSE ROOM DIMENSIONS					
Bin Type		Length (mm)	Width (mm)	Quantity	Area Required (m ²)
240 litre		585	730	11	4.70
1100 litre		1240	1070	3	3.98
TOTAL AREA REQUIRED					8.68
(does not include area required for bin movements)					

The Building 16 refuse room shall be sufficiently sized to accommodate the garbage equipment and bins specified within this report.

BUILDING 16 - REFUSE ROOM DIMENSIONS					
Bin Type		Length (mm)	Width (mm)	Quantity	Area Required (m ²)
240 litre		585	730	11	4.70
1100 litre		1240	1070	3	3.98
TOTAL AREA REQUIRED					8.68
(does not include area required for bin movements)					

The Building 17 refuse rooms shall be sufficiently sized to accommodate the garbage equipment and bins specified within this report.

BUILDING 17 CHUTE A - REFUSE ROOM DIMENSIONS					
Bin Type		Length (mm)	Width (mm)	Quantity	Area Required (m ²)
240 litre		585	730	6	2.56
1100 litre		1240	1070	2	2.65
TOTAL AREA REQUIRED					5.22
(does not include area required for bin movements)					

BUILDING 17 CHUTE B - REFUSE ROOM DIMENSIONS					
Bin Type		Length (mm)	Width (mm)	Quantity	Area Required (m ²)
240 litre		585	730	6	2.14
1100 litre		1240	1070	2	2.65
TOTAL AREA REQUIRED					4.79
(does not include area required for bin movements)					

4. GENERATED WASTE VOLUME ESTIMATE

The enclosed waste estimates, expressed in uncompacted cubic metres per week, are summarised as follows;

Refer to the enclosed waste generation calculations for further detail.

RESIDENTIAL WASTE	Number of Apartments	Garbage	Commingled Recycling
Building 11	47	6.58	5.64
Building 12 – chute A	39	5.46	4.68
Building 12 – chute B	39	5.46	4.68
Building 13	36	5.04	4.32
Building 14	36	5.04	4.32
Building 15	43	6.02	5.16
Building 16	43	6.02	5.16
Building 17 – chute A	21	2.94	2.52
Building 17 – chute B	20	2.80	2.40
Collection Bins		1100 litre	240 litre
Total (m³ / wk uncompacted)		45.36	38.88

Note: Commingled Recycling incorporates Glass, HDPE and PET containers, paper and cardboard.

5. RESIDENTIAL WASTE MANAGEMENT

The following is recommended:

5.1 Waste Streams

Residential waste shall be sorted on-site by the residents into the following streams and associated bins:

- Garbage; and
- Commingled Recycling (Glass, PET, aluminium, HDPE and Paper/Cardboard).

Buildings 11, 12, 13, 14, 15, 16

5.2 Residential Garbage Disposal

Residential apartments shall be furnished with plastic lined under bench storage bins, with a minimum capacity of 15 litres, for the temporary holding of garbage waste. Residents shall transfer bagged garbage to the garbage chutes for disposal. Each building shall have garbage chutes servicing all apartment levels. All garbage chutes shall discharge into 1100 litre bins located at the carpark or lower ground levels. The building manager shall replace full bins under the chutes with clean empty ones as required.

5.3 Commingled Recycling Disposal

Residential apartments shall be furnished with under bench storage bins for the temporary holding of commingled recyclable wastes with a minimum capacity of 10 litres. Residents shall transfer commingled recyclables, as required, to the 240 litre commingled recycling bins located in the chute airlock at each apartment level adjacent to the lift cores for disposal.

The building manager shall collect full 240 litre bins, as required, from each apartment level for transfer to the collection room at refuse rooms at the carpark level. The building manager shall collect clean empty bins for return to each apartment level upon deposit of full bins to the collection room.

5.4 Residential Garbage & Recycling Collection

The building manager shall make 1100 litre bin transfers between the carpark and lower ground level refuse rooms and the collection room at ground level. Full bins only are to be transferred to the collection room. The building manager shall return emptied bins to the respective carpark and lower level refuse rooms upon completion of collection. The building manager shall transfer full 240 litre commingled recycling bins between the apartment levels and the collection room at carpark level.

Twice a week garbage and recycling collections are envisaged.

The collection of waste and recycling bins is to be performed by a private contractor, to be confirmed by Meriton Apartments, from the loading dock at ground level within building 11. The collection contractor shall transfer full bins from the collection room to the collection vehicle for emptying and return emptied bins to the collection room.

There are no overhead restrictions at the proposed collection point. Traffic management consultants shall provide swept path diagrams confirming sufficient area is provided for 8.8m long collection vehicles to service the bins.

Building 17

5.5 Residential Garbage Disposal

Residential apartments shall be furnished with plastic lined under bench storage bins, with a minimum capacity of 15 litres, for the temporary holding of garbage waste. Residents shall transfer bagged garbage to the garbage chutes for disposal. Each garbage chute shall service all apartment levels. Both garbage chutes shall discharge into 1100 litre bins located at the carpark level. The building manager shall replace full bins under the chutes with clean empty ones as required.

5.6 Commingled Recycling Disposal

Residential apartments shall be furnished with under bench storage bins for the temporary holding of commingled recyclable wastes with a minimum capacity of 10 litres. Residents shall transfer commingled recyclables, as required, to the 240 litre commingled recycling bins located in the chute airlock at each apartment level adjacent to the lift cores for disposal.

The building manager shall collect full 240 litre bins, as required, from each apartment level for transfer to the collection room at ground level. The building manager shall collect clean empty bins for return to each apartment level upon deposit of full bins to the collection room.

5.7 Residential Garbage & Recycling Collection

The building manager shall make 1100 litre bin transfers between the carpark refuse rooms and the collection room at ground level. Full bins only are to be transferred to the collection room. The building manager shall return emptied bins to the respective carpark level refuse rooms upon completion of collection. The building manager shall transfer full 240 litre commingled recycling bins between the apartment levels and the collection room at ground level.

Twice a week garbage and recycling collections are envisaged.

The collection of waste and recycling bins is to be performed by a private contractor, to be confirmed by Meriton Apartments, from the collection room at ground level adjacent to the carpark entry ramp. The collection contractor shall transfer full bins from the collection room to the collection vehicle for emptying and return emptied bins to the collection room. There are no overhead restrictions at the proposed collection point.

6. RESIDENTIAL WASTE HANDLING EQUIPMENT

The following waste handling equipment is recommended:

Garbage Chutes: 530mm diameter galvanised steel or Smoothubes® chute serving all apartment levels, as supplied by Wastech Services (or equivalent).

Quantity required = nine (9)

6.1 Residential Waste Calculations

Building 11		
GARBAGE		
Weekly Garbage Volume (Uncompacted)	6.58	cubic metres
Bin Type	1100	litre
Frequency of collection	2	per week
Bins required for collection (volume / bin capacity)	3	
Spare Bins required	1	
Garbage Total bins required	4	

RECYCLING		
Weekly Recycling Volume	5.64	cubic metres
Bin Type	240	litre
Frequency of collection	2	per week
Bins required for collection	12	
Spare Bins required	6	
Recycling Total bins required	18	

Building 12 - chute A		
GARBAGE		
Weekly Garbage Volume (Uncompacted)	5.46	cubic metres
Bin Type	1100	litre
Frequency of collection	2	per week
Bins required for collection (volume / bin capacity)	2	
Spare Bins required	1	
Garbage Total bins required	3	

RECYCLING		
Weekly Recycling Volume	4.68	cubic metres
Bin Type	240	litre
Frequency of collection	2	per week
Bins required for collection	10	
Spare Bins required	6	
Recycling Total bins required	16	

Building 12 - chute B		
GARBAGE		
Weekly Garbage Volume (Uncompacted)	5.46	cubic metres
Bin Type	1100	litre
Frequency of collection	2	per week

Bins required for collection (volume / bin capacity)	2	
Spare Bins required	1	
Garbage Total bins required	3	

RECYCLING		
Weekly Recycling Volume	4.68	cubic metres
Bin Type	240	litre
Frequency of collection	2	per week
Bins required for collection	10	
Spare Bins required	6	
Recycling Total bins required	16	

Building 13		
GARBAGE		
Weekly Garbage Volume (Uncompacted)	5.04	cubic metres
Bin Type	1100	litre
Frequency of collection	2	per week
Bins required for collection (volume / bin capacity)	2	
Spare Bins required	1	
Garbage Total bins required	3	

RECYCLING		
Weekly Recycling Volume	4.32	cubic metres
Bin Type	240	litre
Frequency of collection	2	per week
Bins required for collection	9	
Spare Bins required	6	
Recycling Total bins required	15	

Building 14		
GARBAGE		
Weekly Garbage Volume (Uncompacted)	5.04	cubic metres
Bin Type	1100	litre
Frequency of collection	2	per week

Bins required for collection (volume / bin capacity)	2	
Spare Bins required	1	
Garbage Total bins required	3	

RECYCLING		
Weekly Recycling Volume	4.32	cubic metres
Bin Type	240	litre
Frequency of collection	2	per week
Bins required for collection	9	
Spare Bins required	6	
Recycling Total bins required	15	

Building 15		
GARBAGE		
Weekly Garbage Volume (Uncompacted)	6.02	cubic metres
Bin Type	1100	litre
Frequency of collection	2	per week
Bins required for collection (volume / bin capacity)	2	
Spare Bins required	1	
Garbage Total bins required	3	

RECYCLING		
Weekly Recycling Volume	5.16	cubic metres
Bin Type	240	litre
Frequency of collection	2	per week
Bins required for collection	11	
Spare Bins required	6	
Recycling Total bins required	17	

Building 16		
GARBAGE		
Weekly Garbage Volume (Uncompacted)	6.02	cubic metres
Bin Type	1100	litre
Frequency of collection	2	per week
Bins required for collection (volume / bin capacity)	2	
Spare Bins required	1	
Garbage Total bins required	3	

RECYCLING		
Weekly Recycling Volume	5.16	cubic metres
Bin Type	240	litre
Frequency of collection	2	per week
Bins required for collection	11	
Spare Bins required	6	
Recycling Total bins required	17	

Building 17 - chute A		
GARBAGE		
Weekly Garbage Volume (Uncompacted)	2.94	cubic metres
Bin Type	1100	litre
Frequency of collection	2	per week
Bins required for collection (volume / bin capacity)	1	
Spare Bins required	1	
Garbage Total bins required	2	

RECYCLING		
Weekly Recycling Volume	2.52	cubic metres
Bin Type	240	litre
Frequency of collection	2	per week
Bins required for collection	6	
Spare Bins required	4	
Recycling Total bins required	10	

Building 17 - chute B		
GARBAGE		
Weekly Garbage Volume (Uncompacted)	2.80	cubic metres
Bin Type	1100	litre
Frequency of collection	2	per week
Bins required for collection (volume / bin capacity)	1	
Spare Bins required	1	
Garbage Total bins required	2	

RECYCLING		
Weekly Recycling Volume	2.40	cubic metres
Bin Type	240	litre
Frequency of collection	2	per week
Bins required for collection	5	
Spare Bins required	4	
Recycling Total bins required	9	

7. BIN PRESENTED FOR COLLECTION

Building 11 Bins Presented For Collection

1100 litre Garbage bins	3
240 litre Recycling bins	12
TOTAL BINS PRESENTED	15

Building 12 Bins Presented For Collection

1100 litre Garbage bins	4
240 litre Recycling bins	20
TOTAL BINS PRESENTED	24

Building 13 Bins Presented For Collection

1100 litre Garbage bins	2
240 litre Recycling bins	9
TOTAL BINS PRESENTED	11

Building 14 Bins Presented For Collection

1100 litre Garbage bins	2
240 litre Recycling bins	9
TOTAL BINS PRESENTED	11

Building 15 Bins Presented For Collection

1100 litre Garbage bins	2
240 litre Recycling bins	11
TOTAL BINS PRESENTED	13

Building 16 Bins Presented For Collection

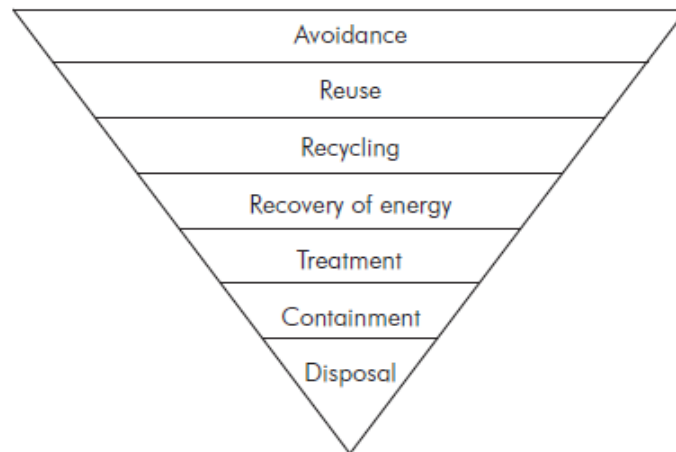
1100 litre Garbage bins	2
240 litre Recycling bins	11
TOTAL BINS PRESENTED	13

Building 17 Bins Presented For Collection

1100 litre Garbage bins	2
240 litre Recycling bins	11
TOTAL BINS PRESENTED	13

8. WASTE MINIMISATION STRATEGIES

The operator (Body Corporate) will be responsible for the education of residents in the practices of waste reduction/minimisation to divert waste from landfill. This will be achieved by the following:



- Document and distribute details of the waste management system that is in place on site to all residents
- Distribution of notices to all residents encouraging waste separation
- All bins to be labelled and colour coded stating types of waste that can be deposited i.e. paper/cardboard bins, container recycling bins, garbage bins
- Residents will be provided with a manual, upon residency, detailing items that can be disposed of via the garbage chutes in accordance with the manufacturers recommendations
- Any future change to regulatory requirements or to the developments' waste generation rates will require the operator to conduct a waste audit and revise the waste management system that is in place accordingly

9. ADDITIONAL WASTE MANAGEMENT INFORMATION

As bins would be “wheeled” throughout the building, any ramps would require a maximum gradient of 1:14 to meet regulatory requirements (steps not permitted).

Items unsuitable for disposal via garbage or recycling bins would need to be disposed with the assistance of the building manager. This would include: large, heavy, and liquid waste items.

To minimise security, vandalism, odour/visual impact, and health/safety issues, the following shall be implemented:

- Transferring waste and shifting bins shall require the minimum possible manual handling. The operator will assess manual handling risks as per regulatory requirements and provide appropriate documentation to the building manager;
- Signage and usage labels for the garbage and recycling bins will be provided by the operator;
- Refuse rooms will be secure and vermin proof and ventilated in accordance with Australian Standard AS 1668.2;
- A bin wash area comprising a tap and floor drain with trap and sewer connection will be located within each refuse room;
- The building manager shall keep clean the refuse rooms, keep bin lids closed and wash bins regularly;
- A designated hard rubbish collection point for each building shall be provided with a minimum footprint of 2m² for residents to place hard rubbish for collection on specified days. Direct access from the street for the collection provider will be included;
- The building manager will ensure prompt return of empty bins once collection has occurred;
- The Body Corporate of the proposed development shall source and enter into service agreements for waste collection services. The Body Corporate will be responsible for all payments and costs associated with the waste collection service provided by collection contractors;
- The building manager shall prepare operational instructions and an operational health and safety procedure for site staff; and
- A traffic management plan and collection-vehicle safe operation procedure shall be prepared by the operator of the development in consultation with the collection contractor, when appointed, prior to collections being performed on site.

10. CONTACT INFORMATION

Parramatta City Council

30 Darcy Street, Parramatta NSW 2150
Ph 9806 5050

SITA Environmental Solutions

(private waste collector)
201-205 Newton Road, Wetherill Park, NSW 2164
Ph: 9725 3255

Veolia Environmental Services

(private waste collector)
Cnr Unwin and Shirley Streets, Rosehill NSW 2142
Ph: 132 955

VISY Waste Management Integrated Solutions

(private waste collector)
6 Herbert Place, Smithfield, NSW 2164
Ph: 9794 3188

Electrodrive Pty Ltd

(tug manufacturer)
C/o Wastech Engineering

Eco-Safe Technologies

(odour control equipment supplier)
C/o Wastech Engineering

Wastech Services Pty. Ltd.

Waste Equipment Designer & Manufacturer
Valerie Collins
National Sales Executive
33 Wedgewood Road, Hallam VIC 3803
Ph 03 8787 1600
valerie@wastech.com.au

APPENDIX I – Waste Estimates

Site	Building 11 - 81 Mobbs Lane Epping Park	Date:	25-Mar-13
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RESIDENTIAL APARTMENTS	47		
Garbage (m ³ /week uncompacted):	6.58	(Rate/apartment) ¹ :	0.140
Commingled Recyc. (m ³ /week uncompacted):	5.64	(Rate/apartment) ¹ :	0.120

COLLECTIONS	Time Between Collections (days)	No. of Bins Collected
Garbage Disposal	3.5 days (1100 litre bins)	3.0
Commingled Recyc.	3.5 days (240 litre bins)	11.8

Site	Building 12 - 81 Mobbs Lane Epping Park	Date:	25-Mar-13
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RESIDENTIAL APARTMENTS - CHUTE A	39		
Garbage (m ³ /week uncompacted):	5.46	(Rate/apartment) ¹ :	0.140
Commingled Recyc. (m ³ /week uncompacted):	4.68	(Rate/apartment) ¹ :	0.120

COLLECTIONS	Time Between Collections (days)	No. of Bins Collected
Garbage Disposal	3.5 days (1100 litre bins)	2.5
Commingled Recyc.	3.5 days (240 litre bins)	9.8

Site	Building 12 - 81 Mobbs Lane Epping Park	Date:	25-Mar-13
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RESIDENTIAL APARTMENTS - CHUTE B	39		
Garbage (m ³ /week uncompacted):	5.46	(Rate/apartment) ¹ :	0.140
Commingled Recyc. (m ³ /week uncompacted):	4.68	(Rate/apartment) ¹ :	0.120

COLLECTIONS	Time Between Collections (days)	No. of Bins Collected
Garbage Disposal	3.5 days (1100 litre bins)	2.5
Commingled Recyc.	3.5 days (240 litre bins)	9.8

Site	Building 13 - 81 Mobbs Lane Epping Park	Date:	25-Mar-13
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<u>RESIDENTIAL APARTMENTS</u>	36		
Garbage (m ³ /week uncompacted):	5.04	(Rate/apartment) ¹ :	0.140
Commingled Recyc. (m ³ /week uncompacted):	4.32	(Rate/apartment) ¹ :	0.120

COLLECTIONS	Time Between Collections (days)	No. of Bins Collected
Garbage Disposal	3.5 days (1100 litre bins)	2.3
Commingled Recyc.	3.5 days (240 litre bins)	9.0

Site	Building 14 - 81 Mobbs Lane Epping Park	Date:	25-Mar-13
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<u>RESIDENTIAL APARTMENTS</u>	36		
Garbage (m ³ /week uncompacted):	5.04	(Rate/apartment) ¹ :	0.140
Commingled Recyc. (m ³ /week uncompacted):	4.32	(Rate/apartment) ¹ :	0.120

COLLECTIONS	Time Between Collections (days)	No. of Bins Collected
Garbage Disposal	3.5 days (1100 litre bins)	2.3
Commingled Recyc.	3.5 days (240 litre bins)	9.0

Site	Building 15 - 81 Mobbs Lane Epping Park	Date:	25-Mar-13
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RESIDENTIAL APARTMENTS	43		
Garbage (m ³ /week uncompacted):	6.02	(Rate/apartment) ¹ :	0.140
Commingled Recyc. (m ³ /week uncompacted):	5.16	(Rate/apartment) ¹ :	0.120

COLLECTIONS	Time Between Collections (days)	No. of Bins Collected
Garbage Disposal	3.5 days (1100 litre bins)	2.7
Commingled Recyc.	3.5 days (240 litre bins)	10.8

Site	Building 16 - 81 Mobbs Lane Epping Park	Date:	25-Mar-13
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RESIDENTIAL APARTMENTS	43		
Garbage (m ³ /week uncompacted):	6.02	(Rate/apartment) ¹ :	0.140
Commingled Recyc. (m ³ /week uncompacted):	5.16	(Rate/apartment) ¹ :	0.120

COLLECTIONS	Time Between Collections (days)	No. of Bins Collected
Garbage Disposal	3.5 days (1100 litre bins)	2.7
Commingled Recyc.	3.5 days (240 litre bins)	10.8

Site	Building 17 - 81 Mobbs Lane Epping Park	Date:	25-Mar-13
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RESIDENTIAL APARTMENTS - CHUTE A	21		
Garbage (m ³ /week uncompacted):	2.94	(Rate/apartment) ¹ :	0.140
Commingled Recyc. (m ³ /week uncompacted):	2.52	(Rate/apartment) ¹ :	0.120

COLLECTIONS	Time Between Collections (days)	No. of Bins Collected
Garbage Disposal	3.5 days (1100 litre bins)	1.3
Commingled Recyc.	3.5 days (240 litre bins)	5.3

Site	Building 17 - 81 Mobbs Lane Epping Park	Date:	25-Mar-13
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RESIDENTIAL APARTMENTS - CHUTE B	20		
Garbage (m ³ /week uncompacted):	2.80	(Rate/apartment) ¹ :	0.140
Commingled Recyc. (m ³ /week uncompacted):	2.40	(Rate/apartment) ¹ :	0.120

COLLECTIONS	Time Between Collections (days)	No. of Bins Collected
Garbage Disposal	3.5 days (1100 litre bins)	1.3
Commingled Recyc.	3.5 days (240 litre bins)	5.0

References/Notes:

- 1) Better practice guide for waste management in multi-unit dwellings NSW 2008
- 2) Waste generation rates -140 litres garbage per unit and 120 litres recycling per unit - from Parramatta City Council waste management plan guide

APPENDIX I – Waste Collection Room

Extract of Site Plan showing waste collection room



APPENDIX III – 240 Litre Bin

240 LITRE CONTAINER

Material

- **Polymer components:**
 - Injection moulded from specially designed HDPE
 - Resistant to decay, frost, heat and chemicals
 - Special UV-stabilisation provides excellent ageing characteristics
- **Corrosion resistant steel axle**
- **Noise reduction:**
 - Quiet-running solid rubber tyres
 - Tight-fitting axle
- **Long service life:**
 - High quality materials
 - Most advanced manufacturing processes
 - Withstands exposure to high mechanical stress levels
- **Recycling:**
 - All container parts are recyclable

Advantages

- Easy to manoeuvre
- Versatile, with a comprehensive accessories range
- Complies with EN840 and AS4123 quality requirements
- Particularly stable due to external position of wheels
- Safe and easy to handle
- Suitable for all DIN lifting equipment
- Double angle rail for greater safety when emptying
- Compatible with identification and weighing systems
- Special ribs prevent containers from becoming jammed when stacked

Imprints and markings

- Manufacturer, year of manufacture, material
- Nominal volume, max permitted total weight
- EN 840 and AS4123 markings
- Individual markings with imprints, hot-foil printing or adhesive labels*
- Customer specific serial numbers if required*

Accessories

- For accessories and special design variations such as lid apertures and locks please refer to the separate accessories sheet for 2-wheeled containers

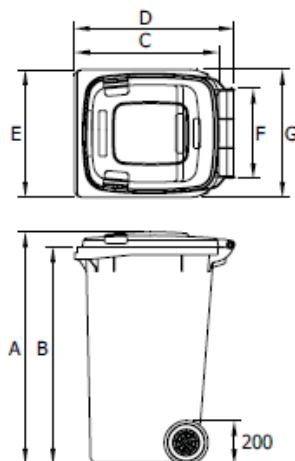
Quality

- Certified according to EN840
- Manufactured in accordance with AS4123

Dimensions - Weights - Standards

- Nominal volume: 240 litres
 - Net weight: approx 13 kg
 - Max load: 96 kg
 - Permitted total weight: 110 kg
- | | | |
|-------------|------------|------------|
| ■ A 1060 mm | ■ D 730 mm | ■ G 550 mm |
| ■ B 990 mm | ■ E 585 mm | |
| ■ C 660 mm | ■ F 400 mm | |

Measurements to be used as a guide only – variations will occur



Colours

- Standard colours: black, nature green, dark green, grey
- Special colours are available on request* – common colours include blue, yellow, red, brown, orange, purple



SULO®

SULO MGB Australia Pty Ltd
123 Wisemans Ferry Road
Somersby NSW 2250

Australia

Tel: +61 (0) 2 - 4348 8188
Fax: +61 (0) 2 - 4348 8128
Internet: www.sulo.com.au
E-mail: info@sulo.com.au

SULO – Queensland Office
11 Argon Street
Sumner Park QLD 4074

Australia

Tel: +61 (0) 7 - 3725 5000
Fax: +61 (0) 7 - 3725 5099

SULO – Victorian Office
1950 Hume Hwy
Campbellfield VIC 3061

Australia

Tel: +61 (0) 3 - 9357 7320
Fax: +61 (0) 3 - 9357 7340

SULO - New Zealand
PO Box 58 962
Greenmount, Manukau City 2141

New Zealand

Tel: +64 9 - 968 2180
Fax: +64 9 - 968 2188

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31000-100

APPENDIX IV – 1100 Litre Bin

1100 Litre Flat Lid Container

Material

- Polymer components:
 - Injection moulded from specially designed HDPE
 - Resistant to decay, frost, heat and chemicals
 - Special UV-stabilisers provide excellent ageing characteristics
- Corrosion resistant steel components
- Noise reduction:
 - Wheel assemblies with solid rubber tyres
- Long service life:
 - High quality materials
 - Excellent manufacturing processes
 - Withstands exposure to high mechanical stress levels
- Recycling:
 - All container parts are recyclable

Design

- Easy handling through the use of ergonomic handles
- Versatile, with a comprehensive accessories range
- In accordance with the safety requirements of EN-840
- Easy grip handles on all sides
- Safe, easy handling, even with heavy loads
- Various wheel assembly configurations for different applications
- Improved water drainage as a result of rounded lids
- Water drainage plug as standard¹
- Compatible with identification and weighing systems
- Reinforced base, front and rear panels for greater stability
- Fitted as standard with chip nest in accordance with RAL GZ 951/1
- Easy to clean due to smooth surfaces and rounded internal corners

Accessories

- For accessories and special design variations such as lid apertures, locks and towing brackets, please refer to the separate accessories sheet for 4-wheeled containers

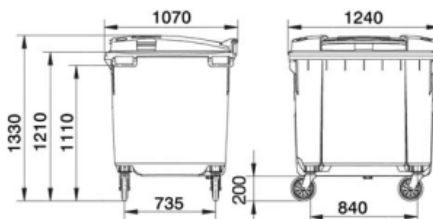
Quality

- Certified according to DIN EN 840 and RAL GZ 951/1
- Constant quality control through manufacturers laboratory as well as independent institutes

Dimensions - Weights - Standards

- Nominal volume: 1100 litres
- Net weight: approx. 65 kg
- Max. load: 440 kg
- Permitted total weight: 510 kg

Measurements to be used as a guide only - variations will occur



Note: Certification and Quality Marks depicted in this brochure are registered to SULO Umwelttechnik GmbH & Co. KG

Colours

- Standard colours: green, blue, yellow
- Special colours are available on request²
- All additives are cadmium free and environmentally friendly



Imprints and markings

- Manufacturer, year of manufacture, material
- Nominal volume, max. permitted total weight
- EN 840, RAL markings
- Individual markings with imprints, hot-foil printing or adhesive labels available on request³



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E-mail: info@sulo.com.au

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Sumner Park QLD 4074
Australia
Tel: +61 (0) 7 - 3725 5000
Fax: +61 (0) 7 - 3725 5099

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1950 Hume Hwy
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SULO - New Zealand
PO Box 58 962
Greenmount, Manukau City 2141
New Zealand
Tel: +64 9 - 968 2180
Fax: +64 9 - 968 2188

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