

Residential Development with Infill Affordable Housing at 1-5 Nelson Rd, Lindfield NSW

Residential Development

OPERATIONAL WASTE MANAGEMENT PLAN

10/06/2025 Concept DA for SSD-82899468 Report No. 6942 Revision B

Client

Landmark Group

https://www.landmarkgr.com/

Architect

DKO Architecture

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GLOSSARY OF ABBREVIATIONS AND TERMS

Bin-Carting Route Travel path for transporting bins from their allocated storage location to

the nominated collection point

Bin Hoist A device used for lifting or lowering bins between different levels

Bin Lifter A device used to mechanically lift bins for the purpose of emptying them

into larger bins and/or compactors.

Bin Mover Either a handheld device (commonly referred to as a bin tug) or a ride-on

device (typically a tractor or Class C vehicle with an attached bin trailer) used to facilitate the movement of bins across long distances or up ramps

Bulk Bins Containers with a capacity greater than 1100L designed to be collected by

a front-loading vehicle

Bulky Waste Recycling items that are too large to be deposited into bins, including

furniture, whitegoods, electronics and mattresses

Chute A vertical pipe passing from floor to floor of a building with openings at

each level for the disposal of general waste and recycling.

Chute Discharge The termination point of a chute whereby the chute offsets deposited

general waste and recycling into bins

Chute Discharge

Room

A room enclosing the termination point of the chute/s, including bins and

volume handling equipment that is accessible only to the building

caretaker

Collection Designated area or point where bins are loaded onto the collection vehicle

Area/Point for servicing

Comingled Recycling Waste stream for the recycling of plastic bottles, other plastics, paper,

glass and metal containers

Communal Bin Room A central, shared bin room accessible to all residents or staff to dispose of

their waste stream

DA Development Application

DCP Development Control Plan

eDiverter A single chute fitted with a diversion system to allow two separate waste

streams (typically general waste and recycling) to be disposed of

concurrently.

EPA Environment Protect Authority

General Waste All non-recyclable and non-hazardous waste that is sent to landfill

HRV Heavy Rigid Vehicle

L Litre

LEP Local Environmental Plan



Mixed Use Development A development comprising a combination of both residential and commercial units or two or more different land uses within the one

development.

Mobile Bins

Containers with a capacity up to and including 1100L designed to be

collected by a rear-loading vehicle

Multi-unit Residential

Development

Also known as MUD's, residential flat buildings, or apartment blocks, this is a residential development with multiple units that typically share facilities and services such as bins and collections.

Onsite Collection

A collection arrangement whereby all bins are serviced by a collection vehicle within the property boundary, either in the building's basement or

at grade and off-street.

Owners Corporation

An organisation or group of persons that is identified by a particular name and that acts, or may act, as an entity

Paper/ Cardboard Recycling

Waste stream for the recycling of paper and cardboard only.

Service Bins

Supplementary bins which are provided to residents or staff for use during collection periods either in communal bin rooms or under chutes

Source Separation

Receptacles

Communal containers used throughout the development for the day-to-day

disposal of different waste streams

Volume Handling Equipment

Equipment which comes in the form of either carousel or linear tracks positioned at the base of the chute/s to mechanically replace full bins with

empty bins

Waste Stream

A classification used to describe waste of a particular type (eg. food waste

stream)

WHS

Workplace Health and Safety



1.0 ACKNOWLEDGEMENT OF COUNTRY

Elephants Foot Consulting (EFC) acknowledges that every project we work on takes place on First Peoples land. We recognise Aboriginal and Torres Strait Islander People as Traditional Custodians of this land. We pay respect to ancestors and Elders, past and present.

2.0 INTRODUCTION

Elephants Foot Consulting (EFC) has been engaged to prepare the following Operational Waste Management Plan (OWMP) to satisfy the conditions of the Concept Development Application Ku-ring-gai Council requires for the residential development located at 1-5 Nelson Rd, Lindfield NSW.

Robust waste management strategies are required for new developments to support the design and sustainable performance of the building. It is EFC's belief that a successful waste management strategy contains three key objectives:

- *i.* **Promote responsible source separation** to reduce the amount of waste that goes to landfill by implementing convenient and efficient waste management systems.
- *Ensure adequate waste and recycling provisions and procedures* are established that will cater for potential changes during the operational phase of the development.
- iii. **Comply** with all relevant council codes, policies, and guidelines.

To achieve these objectives, this OWMP identifies and details the following components:

- Waste streams expected to be generated onsite and anticipated volumes;
- Suitable bin sizes and quantities;
- Waste and recycling disposal procedures;
- Bin room size estimations and equipment recommendations; and
- Waste collection strategies, locations and frequencies.

It is vital that this OWMP is integrated into the overall management of the building and is clearly communicated to all relevant stakeholders.



2.1 SECRETARY ENVIRONMENTAL ASSESSMENT REQUIREMENTS (SEARS)

This OWMP forms part of the Environmental Impact Statement (EIS) prepared for SSD-82899468; a concept proposal for a residential flat building with infill affordable housing. The EIS has been prepared in accordance with Part 8 of the *Environmental Planning and Assessment Regulation 2021* and the *State Significant Development Guidelines* and addresses the minimum content requirements prescribed under the relevant planning framework.

This report addresses the Secretary's Environmental Assessment Requirements (SEARs) issued for the project, notably:

Table 1: SEARs Requirements

SEARs Requirements	Section of Report where response is provided
Provide details of an overall strategy to be implemented to manage, reuse, recycle and safely dispose of this waste.	' ' '
Identify appropriate servicing arrangements for the site.	Sections 5.5, 13

2.2 SCOPE OF REPORT

This OWMP only applies to the **operational** phase of the proposed development; therefore, the requirements outlined in this OWMP must be implemented during the operational phase of the site and may be subject to review upon further expansion of, and/or changes to the development.

The waste management of the **construction** and **demolition** phases of the development are not addressed in this report. A construction and demolition WMP will need to be provided separately.



2.3 REPORT CONDITIONS

The purpose of this report is to document an OWMP as part of a Concept Development Application, which is supplied by EFC with the following limitations:

- Drawings, estimates and information contained in this OWMP have been prepared by analysing the information, plans and documents supplied by the client and third parties including Council and other government agencies. The assumptions based on the information contained in the OWMP is outside the control of EFC,
- The figures presented in the report are an estimate only the actual amount of waste generated will be dependent on the occupancy rate of the building/s and waste generation intensity as well as the building management's approach to educating residents and tenants regarding waste management operations and responsibilities,
- The building manager will adjust waste management operations as required based on actual waste volumes (e.g. if waste is greater than estimated) and increase the number of bins and collections accordingly,
- The report will not be used to determine or forecast operational costs or prepare any feasibility study or to document any safety or operational procedures,
- The report has been prepared with all due care; however no assurance is made that
 the OWMP reflects the actual outcome of the proposed waste facilities, services, and
 operations, and EFC will not be liable for plans or results that are not suitable for
 purpose due to incorrect or unsuitable information or otherwise,
- EFC offer no warranty or representation of accuracy or reliability of the OWMP unless specifically stated,
- Any manual handling equipment recommended in this OWMP should be provided at the recommendation of the appropriate equipment provider who will assess the correct equipment for supply,
- Design of waste management chute equipment and systems must be approved by the supplier,
- EFC cannot be held accountable for late changes to the design after the OWMP has been submitted to Council.
- EFC will provide specifications and recommendations on bin access and travel paths
 within the OWMP, however it is the architect's responsibility to ensure the architectural
 drawings meet these provisions,
- EFC are not required to provide information on collection vehicle swept paths, head heights, internal manoeuvring or loading requirements. It is assumed this information will be provided by a traffic consultant,
- Council are subject to changing waste and recycling policies and requirements at their own discretion.
- This OWMP is only finalised once the draft watermark has been removed. If the draft watermark is present, the information in the OWMP is not confirmed.



3.0 LEGISLATION & GUIDANCE

Waste management and resource recovery regulation in Australia is administered by the Australian Constitution, Commonwealth laws, and international agreements. State and territory governments maintain primary responsibility for controlling development and regulating waste. The following legislation has been enacted in New South Wales, and provides the lawful underpinnings of this OWMP.

- NSW Environmental Planning & Assessment Act 1979
- NSW Protection of the Environment Operations Act 1997
- NSW Waste Avoidance & Resource Recovery Act 2001

At the local level, councils or Local Government Areas (LGAs) require OWMPs to be included in new development applications. This OWMP is specifically required by:

- Ku-ring-gai Development Control Plan 2024
- Ku-ring-gai Local Environmental Plan 2015

The primary purpose of a Development Control Plan (DCP) is to guide the planning process according to the aims of the corresponding local environmental plan (LEP). The DCP must be read in conjunction with the provisions of the relevant LEP.

Information provided in this OWMP comes from a wide range of waste management guidance at the local, state, and federal levels. The primary sources of guidance include:

- Ku-ring-gai Development Control Plan 2024 Part 25 Waste Management
- NSW Better Practice Guide for Resource Recovery in Residential Developments 2019
- NSW Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities 2012
- NSW Waste Avoidance and Resource Recovery (WARR) Strategy 2014-2021
- NSW Waste and Sustainable Materials Strategy 2041
- NSW Waste Classification Guidelines 2014
- Australia's National Waste Policy 2018



4.0 DEVELOPMENT OVERVIEW

The proposed development falls under the LGA of Ku-ring-gai Council with a site area of 4967m², and consists of:

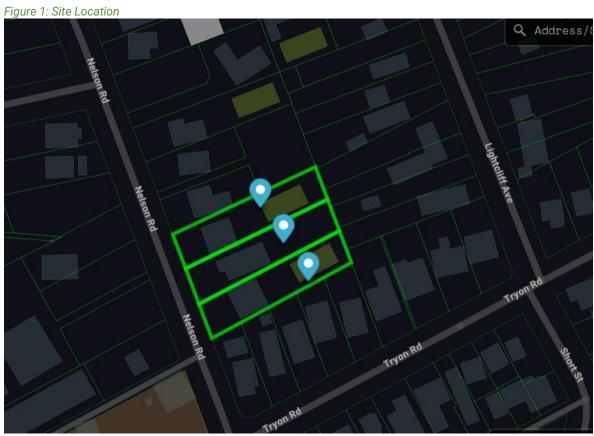
- · Demolition of existing structures;
- · Tree removal and site clearing;
- Construction of a new residential flat building comprising of residential apartments (inclusive of affordable housing apartments) and basement car parking;
- · External landscaping works;
- 167 residential units in total, separated into 2 cores;
 - Core A; 83 units; &
 - o Core B; 84 units
- Approximately 280 parking spots.

17% of total proposed GFA to be dedicated as affordable housing utilising the TOD provisions of SEPP (Housing) 2021 Chapter 5 and Infill affordable housing provisions of SEPP (Housing) 2021 Chapter 2.

All figures and calculations are based on area schedules as advised by our client and shown on architectural drawings.

4.1 SITE LOCATION

The site is located at 1-5 Nelson Rd, Lindfield NSW, as shown in Figure.1 (boundaries are indicative only). The site has frontages and vehicle access via Nelson Road.



Source: Site Area, Landmark Group, 2025



5.0 RESIDENTIAL WASTE MANAGEMENT

The following section outlines best practice waste management for the residential component of the development, including waste stream generation estimates and disposal and collection procedures.

5.1 RESIDENTIAL WASTE GENERATION ESTIMATES

The *Ku-ring-gai Development Control Plan 2024* and Council email correspondences have been referenced to calculate the total number of bins required for the residential units. Calculations are based on generic general waste and recycling rates. Actual volumes of general waste and recycling generated in operation may differ according to the residents' actual waste management practices.

The following table shows the estimated volume (L) of general waste and recycling generated by the development.

Table 2: Estimated Waste and Recycling Volumes - Residential

1 0.010 21 20	able 2. Estimated Waste and Recycling Volumes – Residential						
Building/ Core	# Units	General Waste Generation Rate (L/unit/week)	Generated General Waste (L/week)	Paper/ Cardboard Recycling Generation Rate (L/unit/week)	Generated Paper/ Cardboard Recycling (L/week)	Commingled Recycling Generation Rate (L/unit/week)	Generated Commingled Recycling (L/week)
A	83	120	9960	60	4980	60	4980
В	84	120	10080	60	5040	60	5040
TOTAL	167		20040		10020		10020
Bins & Collections		General Waste Bin Size (L)	660	Paper/ Cardboard Recycling Bin Size (L)	660	Commingled Recycling Bin Size (L)	660
		General Waste Collections per Week	1	Paper/ Cardboard Recycling Collections per Week	1	Commingled Recycling Collections per Week	1
		Total General Waste Bins Required	<u>32</u>	Total Paper/ Cardboard Recycling Bins Required	<u>16</u>	Commingled Total Recycling Bins Required	<u>16</u>
Ding non-D	:	Building/ Core	# Bins	Building/ Core	# Bins	Building/ Core	# Bins
Bins per B Cor		А	16	А	8	А	8
5016		В	16	В	8	В	8

<u>Note</u>: An additional bin should be provided for each chute discharge for use during collection periods. These bins are not included in the above figures.

Note: It is strongly recommended bins/equipment at the base of each chute allow for 1-day's worth of waste generation.



5.2 RESIDENTIAL BIN SUMMARY

Based on the estimated volumes of general waste and recycling generated by the development, the recommended bin quantities and collection frequencies are as follows:

General Waste: 32 x 660L bins collected 1 x weekly

Paper/Cardboard Recycling: 16 x 660L bins collected 1 x weekly

Comingled Recycling: 16 x 660L bins collected 1 x weekly

Service Bins: 2x 1100L bin

During operation, it is the responsibility of the building manager to monitor the number of bins required for the residential component of the development. General waste and recycling volumes may change according to residents' attitudes to waste disposal, building occupancy levels or the development's management. Any requirements for adjusting the capacity of the waste facilities may be achieved by changing the number of bins, the bin sizes or collection frequencies. Building management will be required to negotiate any changes to bins or collections with the collection service provider.

5.3 RESIDENTIAL CHUTE DISCHARGE EQUIPMENT SUMMARY

It is strongly recommended that the bins and equipment at the base of each chute allows for at least 1 day's worth of general waste generation. Based on the estimated general waste volumes generated by each building/core, the following equipment is recommended:

Table 3: Chute Discharge Equipment Summary

rable of onate Bloomarge Equipment currinary						
Volume Handling Equipment						
	General Waste					
Building/ Core	Waste Required for 1					
Core A	9960	2.16	3-Bin Linear System			
Core B	10080	2.18	3-Bin Linear System			

The above is a recommendation only and equivalent volume handling equipment may be used subject to equipment supplier's recommendation/review.

5.4 RESIDENTIAL WASTE DISPOSAL PROCEDURES

All units will be provided with a storage area capable of holding separate receptacles for general waste and recycling. This is typically located within kitchen areas beneath the workbench. This space should be sized to accommodate 40L receptacles (minimum) to account for 1 day's worth of general waste and recycling.

5.4.1 RESIDENTIAL GENERAL WASTE AND RECYCLING DISPOSAL PROCEDURES

A single general waste chutes will be installed in each building core with access provided to all residents on each residential level. Separate 240L recycling bins (2 x 240L bins) will be provided in a compartment adjacent to the general waste chute for the storage of commingled recycling and paper/cardboard recycling.



Residents will be responsible for walking their general waste and recycling to their allocated disposal point and placing their general waste into the general waste chute and commingled recycling and paper/cardboard recycling in the corresponding 240L recycling bin.

Residents will wrap or bag their general waste before placing in the chute. Bagged waste should not exceed 3kg in weight, or 35cm x 35cm x 35cm. Residents will be responsible for loosely placing their recycling into the 240L bins. Recycling should be clean and must not be bagged as soft plastics contaminate recycling.

The general waste will discharge from the chute into 660L bins on chute tracks in the Chute Discharge Rooms. The location of the rooms are to be confirmed.

The building manager will monitor bin capacities under the general waste chute and exchange full bins with empty bins on the track systems when required.

Recycling bins on each level will be monitored by the building caretaker and full bins will be transferred down to the Bin Holding Room where they are to be decanted into 660L collection bins using a bin lifter.

Full and spare bins will be kept in the Bin Holding Room.

Refer to Council guidance for the types of materials accepted in the general waste and recycling streams.

5.5 RESIDENTIAL BIN COLLECTION PROCEDURES

Council will be engaged to collect the residential general waste and recycling in accordance with Council's collection schedule. This report assumes that general waste and recycling will be collected weekly.

Prior to collections, the Building Manager/Caretaker will be responsible for transporting the bins from Chute Discharge Rooms and each residential level to the Bin Holding Room (Collection Point). The location of the Bin Holding room is to be confirmed. The Building Manager/Caretaker is also responsible for ensuring that the bins are adequately arranged for an efficient collection. It is recommended that additional 660L service bins be placed under the chute to collect discharge while the other bins are being serviced.

It is the responsibility of the caretaker to ensure that the loading area is clear of any vehicles or obstructions prior to waste collection.

On the day of collection, a Council collection vehicle will enter the site from Nelson Road and park in the loading bay. The Building Manager/Caretaker will be responsible for ensuring that the collection staff have access to the collection point. The collection staff will exit the vehicle and collect the bins from the Bin Holding Room (Collection Point) and return the empty bins once serviced.

Upon completion of servicing, the collection vehicle will exit the site onto Nelson Road in a forward direction. The Building Manager/Caretaker is responsible for returning the bins to their operational location to resume use.

All access and clearances to the collection point must be able to accommodate a HRV per AS2890.2-2002/ Council's collection vehicle.



5.6 OTHER RESIDENTIAL WASTE MANAGEMENT CONSIDERATIONS

The following sections outline other waste management considerations for the residential components.

5.6.1 RESIDENTIAL COMMON AREAS

Residential common areas will be supplied with suitably branded source separation receptacles where considered appropriate. Receptacles should be placed in convenient locations which are accessible to all residents. The building manager will monitor the capacity of these receptacles and empty the contents into the central collection bins as required.

5.6.2 LANDSCAPED AREAS AND GARDEN ORGANICS

Garden organics generated from surrounding landscaped areas and indoor foliage typically consists of lawn clippings, cuttings, leaves and branches.

Garden organics generated from surrounding landscaped areas will be managed and removed from the site by the designated landscaping contractors as they carry out scheduled landscaping maintenance works.

5.6.3 RESIDENTIAL BULKY WASTE PROCEDURES

An area will be made available for the storage of discarded residential bulky waste items (e.g. whitegoods, furniture, etc.). This room should be located within close proximity of the collection point and must have a minimum doorway width of 1.5m to facilitate the movement of large items in and out of the room.

Ku-ring-gai requires bulk waste storage rooms to be provided for residential buildings at a rate of:

	Number of Dwellings	Minimum Storage Area
i.	Up to 50	6 sqm
ii.	50-100	12 sqm
iii.	100-110	15 sqm
iv.	Above 110	15 sqm + 1 sqm per 10 additional dwellings above 10

Source: Ku-ring-gai Council Development Control Plan 2024, Section 25B.1

Based on this rate, the Bulky Waste Room required for the development will be 21m².

Residents will need to liaise with building management regarding the transportation of bulky items and the availability of the Bulky Waste Room. It is the caretaker's responsibility to arrange collection dates with Council and coordinate these times with the residents.

On the day of bulky waste collection, a Council collection vehicle will enter the site from Nelson Road and park in the loading bay. Collection staff will collect the bulky waste items from the Bulky Waste Room. Once bulky items have been loaded onto the vehicle, the collection vehicle will exit the site onto Nelson Road in a forward direction.



6.0 STAKEHOLDER ROLES & RESPONSIBILITIES

The following table outlines the primary roles and responsibilities of the respective stakeholders:

Table 4: Stakeholder Roles and Responsibilities

Roles	Responsibilities
Strata, Body Corporate or Management	 Co-ordinate the waste strategy within the site. Ensure all waste service providers submit monthly reports on all equipment movements and waste quantities/weights. Organise internal waste audits/visual assessments on a regular basis. Purchase any on-going waste management equipment or maintenance of equipment once building is operational; and Manage any non-compliances/complaints reported through waste audits.
Building Manager or Waste Caretaker	 Co-ordinate general waste and recycling collections Clean and transport bins as required. Maintain and clean chute doors on each level. Organise replacement or maintenance requirements for bins. Organise, maintain and clean bin storage areas. Organise bulky waste collections when required. Investigate and ensure prompt clean-up of illegally dumped waste materials. Prevent storm water pollution by taking necessary precautions (secure bin rooms, prevent overfilling of bins). Abide by all relevant WH&S legislation, regulations, and guidelines. Provide staff/contractors with equipment manuals, training, health and safety procedures, risk assessments, and PPE to control hazards associated with all waste management. Assess any manual handling risks and prepare a manual handling control plan for bin transfers. Ensure site safety for residents, children, visitors, staff and contractors; and Ensure effective signage, communication and education is provided to occupants, tenants, maintenance staff, and cleaning contractors.
Residents	 Dispose of all general waste and recycling in the allocated chutes and/or bins provided. Ensure adequate separation of general waste and recycling; and Comply with the provisions of Council and the OWMP.
Waste Collection Contractor	 Provide a reliable and appropriate bin collection service. Provide feedback to building managers/residents regarding contamination of recyclables; and Work with building managers to customise waste systems where possible.
Gardening/ Landscaping Contractor Remove all garden organics generated during gardening maintenance action.	
Developer	 Purchase all equipment required to implement this OWMP prior to the occupation of the building to be provided to the Strata or Body Corporate.



7.0 SOURCE SEPARATION

Better practice waste management includes the avoidance, reuse, and recovery of unwanted items, which can be achieved through source separation. The table below outlines what is typically included in various waste streams and how they can be managed. Refer to your local council for a list of accepted materials. Planet Ark can be accessed online to find other facilities that recover unwanted items.

Table 5: Operational Waste Streams

Waste Stream	Description Description	Typical Destination	Waste Stream Management
General Waste	The remaining portion of the waste stream that is not recovered for reuse, processing, or recycling. May include soft plastics, food scraps, polystyrene, etc.	Landfill	Waste should be bagged before placing in chutes.
Paper and Cardboard Recycling	Cardboard and paper products are recyclable materials that can be reprocessed into new products.	Resource Recovery Centre	Bulky cardboard must not be placed in any chute. Cardboard should be flattened before placing in the designated cardboard bin.
Commingled Recycling	A mixture of items that are commonly recycled usually segregated through a MRF. Typically include food and beverage containers (e.g. aluminium, glass, steel, hard plastics, cartons).	Materials Recovery Facility (MRF)	Commingled recycling must not be bagged, and instead should be placed loosely in the designated recycling bins.
Food Waste	Food waste consists of unwanted or uneaten kitchen scraps that are easily compostable/biodegradable (e.g. vegetable peels, fruit rinds, coffee grounds).	Composting facility or Landfill	Food waste can be composted on- site, off-site, or else included in the general waste stream.
Garden Organics	Garden organics consists of unwanted organic materials that are easily biodegradable and/or compostable (e.g. lawn clippings, branches)	Resource Recovery Centre	Landscape Maintenance Contractors will remove the garden organics from site during scheduled maintenance.
Electronic Waste	Discarded e-waste, electronic components and materials such as computers, mobile phones, keyboards, etc.	Resource Recovery Centre	Building manager arranges collection for e-waste recycling as needed by residents.
Bulky Waste Items	Items that are to too large to place into general rubbish collection. This includes disused and/or broken furniture, mattresses, white goods, etc.	Resource Recovery Centre or Landfill	Residents liaise with building manager to store in Bulky Goods Room. Building manager arranges with Council for removal.
Sanitary	Feminine hygiene waste generated	Incineration	Sanitary bins are serviced by
Waste Other	from female bathrooms. Other recyclable items that require special recovery may include ink cartridges, batteries, chemical waste, fluorescent tubes, etc.	or Landfill Resource Recovery Facility	sanitary waste contractor. Building manager arranges collection by appropriate recycling services when required.



8.0 EDUCATION

Educational material encouraging correct separation of general waste and recycling must be provided to each resident. This should include the correct disposal process for bulky waste such as old furniture, large discarded items, and other materials including electronic and chemical wastes. It is recommended that the building caretaker provide information in multiple languages to support correct behaviours, and to minimise the possibility of chute blockages and contamination in communal bins.

Education and communication must be provided consistently on a regular basis to encourage behaviour change and account for transient building personnel such as new residents, tenants, or cleaning staff. It is also recommended that the owners' corporation website contain information for residents' referral regarding use of the chute. Information should include:

- Directions on using the chute doors;
- Descriptions of items accepted in the general waste and recycling streams (refer to Council guidance);
- How to dispose of bulky waste and any other items that are not general waste and recycling (refer to Council guidance);
- Residents' obligations to health and safety as well as building management; and
- How to prevent damage or blockages to the chute (example below).

8.1 SIGNAGE

Signage and education are essential components to support best practice waste management including resource recovery, source separation, and diversion of waste from landfill.

Signage should include:

- Clear and correctly labelled bins,
- Instructions for separating and disposing of waste items. Different languages should be considered.
- Locations of, and directions to, the waste storage areas with directional signs, arrows, or lines,
- The identification of all hazards or potential dangers associated with the waste facilities, and
- Emergency contact information should there be issues with the waste systems or services in the building.

The building manager is responsible for waste room signage including safety signage. Appropriate signage must be prominently displayed on doors, walls and above all bins, clearly stating what type of waste or recyclables is to be placed in each bin.

All chute doors on all residential levels will be labelled with signs directing chute operations and use of chute door.

All signage should conform to the relevant Australian Standards.



9.0 POLLUTION PREVENTION

Building management shall be responsible for the following to minimise dispersion of site litter and prevent stormwater pollution to avoid impact to the environment and local amenity:

- Promoting adequate waste disposal into the bins
- Securing all bin rooms (whilst affording access to staff/contractors)
- Prevent overfilling of bins, keep all bin lids closed and bungs leak-free
- Taking action to prevent dumping or unauthorised use of waste areas
- Require collection contractor/s to clean up any spillage when clearing bins

10.0 BIN WASHING

The bins will be cleaned by the building manager periodically to ensure hygiene and minimise odour.

Bin washing can occur within the bin rooms, using the room clean down facilities (i.e., tap connection and drain). Alternatively, a specialist bin washing contractor can be engaged to clean the bins to an agreed schedule. The specialist bin contractor would collect the bins from the bin holding area and clean the bins with their specialised vehicle.

11.0 BIN MOVING PATHS

The building manager is responsible for the transportation of bins from their designated operational locations to the collection area, returning them once emptied to resume operational use.

Any movement of bins should minimise manual handling where possible, as bins become heavy when full. The building manager must assess manual handling risks and provide any relevant documentation to key personal.

The routes along the bin moving path should;

- Allow for a continuous route that is wholly within the property boundary.
- Be free from obstruction and obstacles such as steps and kerbs.
- Be constructed of solid materials with a non-slip surface
- Be A minimum of 300mm wider than the largest bin used onsite.
- If bins are moved manually, the route must not exceed a grade of 1:14.
- If a bin moving device is used, the route cannot exceed the maximum operating grade of the device. This is typically a grade of 1:4, however this will vary depending on the model of bin moving device acquired for the site.

As the distance of the bin moving paths exceeds 10m, a bin moving device will be required to aid the movement of full bins. The developer is responsible for supplying all equipment required for moving bins this includes any bin lifters, bin moving devices and waste transfer bins. This equipment must be new and appropriate for the site. The developer should contact a bin-tug, trailer or tractor consultant to provide equipment recommendations.

Once the site is operational (and the developers is no longer involved) the building proprietors/strata will be responsible for maintaining, repairing and replacing waste management equipment. Bins may have to be fitted with hitches to enable the simultaneous transportation of multiple bins to the collection area. Council must be informed of any hitch attachments required to be installed on bins.



12.0 EQUIPMENT SUMMARY

Table 6: Equipment Summary

таріе 6. Ециіріті	Part	Qty	Notes
Chutes	Please refer to supplier's information		(See APPENDIX: A.1 for Typical Single Chute Layout)
Chute Equipment	General Waste 3-bin 660L bin Linear Track System		(See APPENDIX: A.3 for Typical Linear System)
Other Equipment	Suitable Bin Moving Device	1	(See APPENDIX: C.1 and APPENDIX: C.2 for Typical Bin Movers)
	Bin Lifter	1	(See APPENDIX: C.5 for Typical Bin Lifter)



13.0 WASTE ROOMS

The areas allocated for waste storage and collection areas are detailed in the table below and are estimates only.

The equipment recommended in the chute discharge rooms is to manage 1 day's worth of estimated general waste from that building core. Therefore, this represents the minimum equipment required in these rooms to satisfy best practice requirements. Additional bins or volume handling equipment can be included in these rooms to increase days of capacity or manual labour required in operation.

Table 7: Waste Room Areas

Level	Waste Room Type	Equipment	Estimated Area Required (m²)	Actual Area Provided (m²)
ТВС	Chute Discharge Room A	3-660L bin linear track system (general waste) 1 x 660L bins (service bin)	>19	TBC
ТВС	Chute Discharge Room B	3-660L bin linear track system (general waste) 1 x 660L bins (service bin)	>19	TBC
TBC	Bin Holding Room (Collection Point)	General Waste: 32 x 660L bins Paper/Cardboard Recycling: 16 x 660L bins Comingled Recycling: 16 x 660L bins Equipment 1 x Bin Lifter/Bin Tipper	>126	TBC
TBC	Bulky Waste Room		>21	TBC
	Space for a ride	-on bin mover and trailer for 240L bins (ideally for \geq	8 x 240L bins	s)

EFC recommends bins sizes, collection frequencies and/or equipment for best practice waste management at this site, however EFC also acknowledges there are a range of other suitable options that may alter waste room requirements (e.g., floor area, accessibility, head height, etc.)

The waste room areas have been calculated based on equipment requirements and/or bin dimensions with an additional 70% of bin GFA factored in for manoeuvrability.

In addition, all doorways and passageways facilitating the movement of bins and/or bulky waste items must be at least 1500mm wide.



The following table provides further waste room requirements.

Table 8: Waste Room Requirements

Waste Room Type	Waste Room Requirements
Chute Discharge Rooms	 Ceiling clearance height must be a minimum of 3000mm (subject to penetration location) The chute penetration must have a minimum 500mm clearance of any service pipes or other overhead obstacles All chute discharge points should be caged off to ensure the safety of any personnel accessing the waste room 200mm clearance is required around compaction equipment Where a chute offset is required, the angle of the offset must not exceed 30 degrees (subject to number of consecutive offset and/or up to 1500mm)
Bin Holding Room	Bins must not be stacked in rows that are more than two bins deep.
Bulky Waste Room	 May be a dedicated room or screened area within another waste room Must be in close proximity to the collection area Area must also be allocated for the segregation of e-waste, gas bottles, cardboard, etc. Doorway should be a minimum of 1500mm wide



14.0 CONSTRUCTION REQUIREMENTS

Waste room construction must comply with the minimum standards as outlined in the *Ku-ring-gai Development Control Plan 2024*, in order to minimise odours, deter vermin, protect surrounding areas, and make it a user-friendly and safe area.

The NSW Better practice guide for resource recovery in residential developments (2019) also states that better practice bin storage areas should achieve more than the minimum compliance requirements, which are as follows:

- Ensuring BCA compliance, including ventilation. Where required, ventilation system must comply with AS1668.4-2012 The use of ventilation and air conditioning in buildings.
- Ensuring storage areas are well lit (sensor lighting preferred) and have lighting available 24 hours a day.
- Provision of bin washing facilities, including taps for hot and cold water provided through a centralised mixing valve. The taps must be protected from bins and be located where they can be easily accessed even when the area is at bin capacity.
- Floor constructed of concrete at least 75mm thick.
- Floor graded so that any water is directed to a sewer authority approved drainage connection to ensure washing bins and/or waste storage areas do not discharge flow into the stormwater drain.
- Provision of smooth, cleanable and durable floor and wall surfaces that extend up the wall to a height equivalent to any bins held in the area.
- Ensuring ceilings are finished with a smooth-faced non-absorbent material capable of being cleaned.
- All surfaces (walls, ceiling and floors) finished in a light colour.

14.1 ADDITIONAL CONSIDERATIONS

- Waste room floor to be sealed with a two-pack epoxy;
- All corners coved and sealed 1,200mm up, this is to eliminate build-up of dirt;
- Hot and cold water tap height and light switch height of 1.6m;
- Storm water access preventatives (grate);
- All walls painted with light colour and washable paint;
- Equipment electric outlets to be installed 1700mm above finished floor level;
- Optional automatic odour and pest control system installed
- If 660L or 1100L bins are utilised, 2 x 820mm (minimum) double-doors must be used;
- All personnel doors are hinged, lockable and self-closing;
- Conform to the Building Code of Australia, Australian standards and local laws; and
- Childproofing and public/operator safety shall be assessed and ensured
- Waste and recycling rooms must have their own exhaust ventilation system either;
 - Mechanically exhausting at a rate of 5L/m² floor area, with a minimum rate of 100L/s minimum. Mechanical exhaust systems shall comply with AS1668.4.2012 and not cause any inconvenience, noise or odour problem; or
 - Naturally permanent, unobstructed, and opening direct to the external air, not less than one-twentieth (1/20) of the floor area.



15.0 USEFUL CONTACTS

Elephants Foot Chute Solutions

EFC does not warrant or make representation for goods or services provided by suppliers.

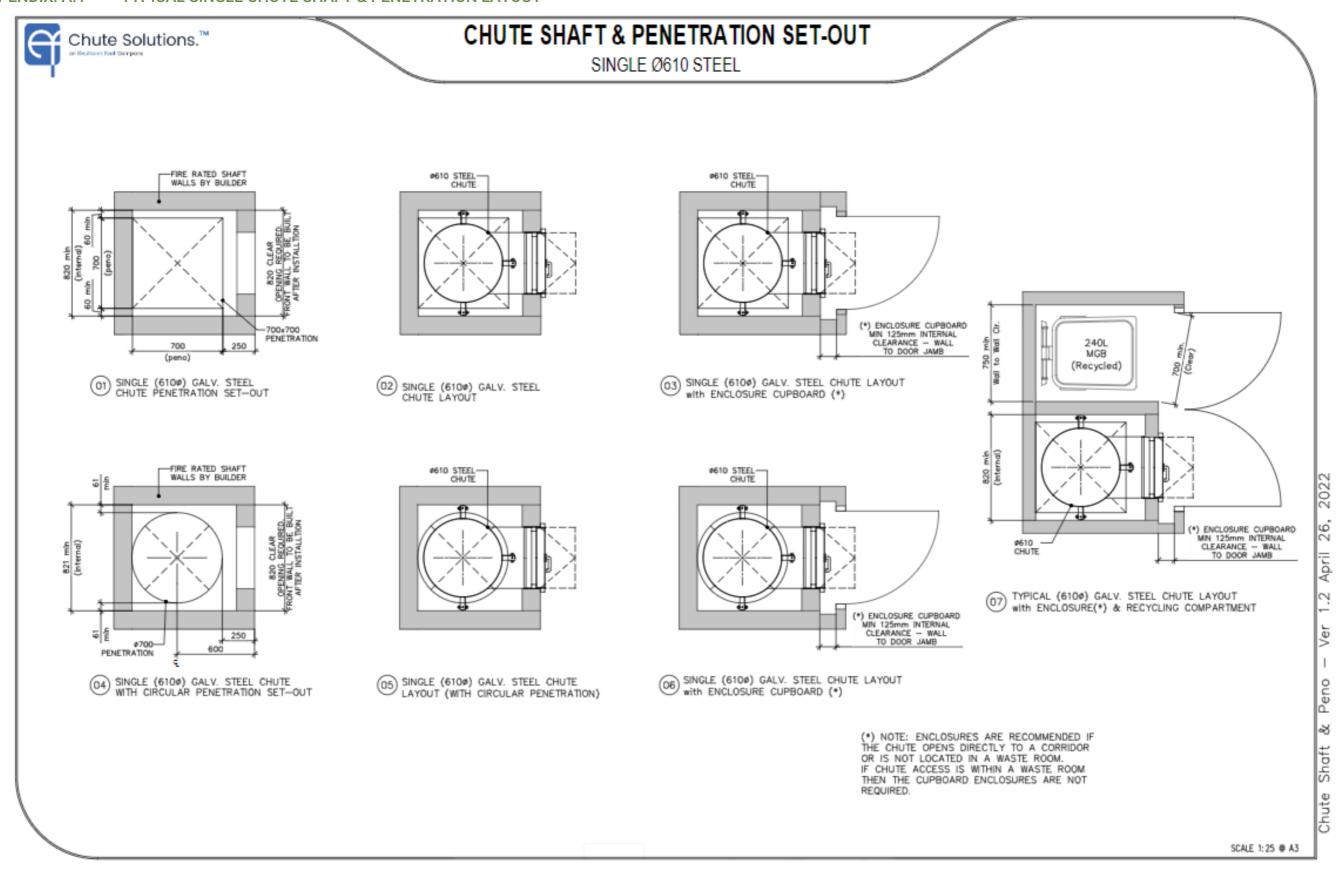
Ku-ring-gai Customer Service	Ph: (02) 9424 0000	E: krg@krg.nsw.gov.au
PRIVATE WASTE COLLECTION P	ROVIDER	
Capital City Waste Services Sydney Waste Waste Clear	Ph: 02 9599 9999 Ph: 02 8661 0031 Ph: 1300 525 352	E: <u>service@ccws.net.au</u> E: <u>admin@wasteclear.com.au</u>
BIN MOVING DEVICE SUPPLIERS	:	
Elephants Foot Equipment Sitecraft	Ph: 1300 435 374 Ph: 1300 363 152	E: equipment@elephantsfoot.com.au E: sales@sitecraft.com.au
BALER SUPPLIERS		
Elephants Foot Equipment	Ph: 1300 435 374	E: equipment@elephantsfoot.com.au
ORGANIC DIGESTERS AND DEHY	/DRATORS	
Elephants Foot Equipment Waste Master	Ph: 1300 435 374 Ph: 1800 614 272	E: equipment@elephantsfoot.com.au E: hello@wastemasterpacific.com.au
COOKING OIL CONTAINERS AND	DISPOSAL	
Cookers Auscol	Ph: 1300 882 299 Ph: 1800 629 476	E: info@cookers.com.au E: sales@auscol.com
ODOUR CONTROL		
Elephants Foot Equipment	Ph: 1300 435 374	E: equipment@elephantsfoot.com.au
SOURCE SPERATION BINS		
Method Recycling	Ph: 0499 890 455	
BINS AND BIN EQUIPMENT		
Elephants Foot Equipment SULO	Ph: 1300 435 374 Ph: 1300 364 388	E: equipment@elephantsfoot.com.au E: sulosales@pactgroup.com

Ph: 1300 435 374

E: chutes@elephantsfoot.com.au



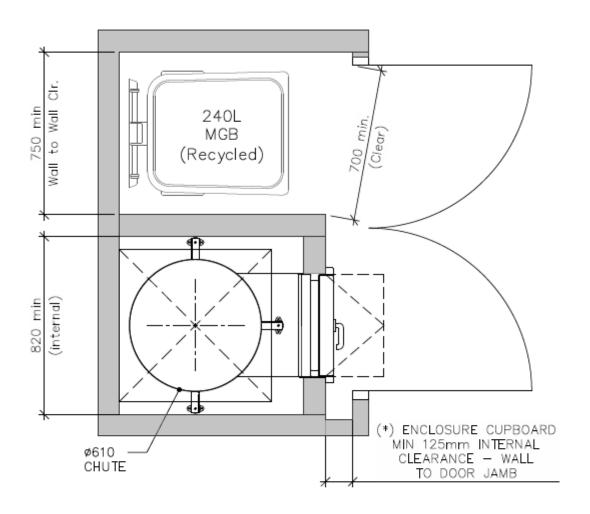
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Please Note: This is an example only – please refer to supplier's information and specification.



APPENDIX: A.2 EXAMPLE RESIDENTIAL LEVEL RECYCLING BIN LAYOUT



O7 TYPICAL (6100) GALV. STEEL CHUTE LAYOUT with ENCLOSURE(*) & RECYCLING COMPARTMENT

Please Note: This is an example only – please refer to supplier's information and specification



APPENDIX: A.3 TYPICAL LINEAR TRACK SYSTEM FOR 660L BINS



660 LITRE LINEAR TRACK SYSTEM

PRODUCT INFORMATION

Elephants Foot 660 Litre bin Linear Track System is a versatile waste handling solution for many types of multi-storey or multi-level developments. The Linear Track System collects waste or recycling being disposed from the floors above through the chute system, discharging the material via a hopper that feeds the bins. Electromechanically driven with automated operation, the system utilises linear motion to automatically change over full bins. Once all the bins are filled, an indicator light will illuminate signifying that the bins are ready for withdrawal and collection. Available with or without compaction unit, our standard 660 litre bin Linear Track System is available in standard 2 or 3. Our 4 Bin option is available as a special order.



SPECIFICATIONS

System Control	Electric PLC
Power Supply	415 V AC / 10A / 5 PIN
Motor Size (kW)	0.55
Maximum bin load	265 kg
Noise (dBA)	<85
Bin Size (L)	660
Cycle time (sec)	60
Bin Quantity options	2, 3, or 4

OPTIONAL EXTRAS

- Compaction unit Please refer to the bin compactor product information sheet for details and specifications
- Enhanced safety add on's Interlocking barriers, occupancy sensors or safety light curtains (presence sensing light barriers)
- · Full bin SMS and email notification
- · CMMS and BMS integration
- Extend warranty Terms and conditions apply

STANDARD FEATURES & BENEFITS

- Simple operation with user friendly controls
- · Increased waste servicing efficiency for the development
- · Automatic system control with manual override
- Robust unit construction for long performance life
- · Low service and maintain costs
- · Rotating flashing beacon (activated during operation)
- Quiet and efficient system operation
- · Maximise safety for residents, caretakers and collectors
- Restrained design with minimal moving parts
- Can suit low ceiling clearances
- · Floor contact components fully galvanised steel
- · Retro fitting options to suit other chutes systems
- Compliant with relevant Building Codes and Standards
- Standard 12 month warranty



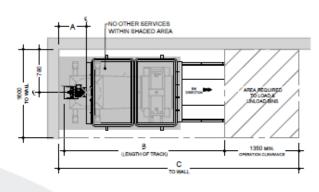




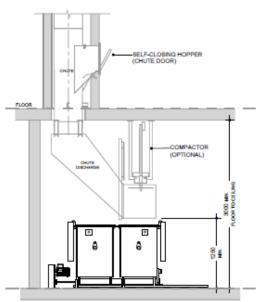
660 LITRE LINEAR TRACK SYSTEM

No. of Bins	Reference (mm)			
NO. OF BIRS	Α	В	С	
2	500	2950	4350	
3	1450	4650	6050	
4	2300	6300	7750	

Available with or without compaction unit, our standard 240 litre bin Linear Track System can support 2, 3 or 4 bin quantities.







Notes:

Bins not provided by Elephants Foot

Drawings shown are for general information purposes only and provide minimum equipment spacial requirements for waste room design.

These drawings are not intended for site specific use or for construction. Each project is unique and will be designed to suit.

Additional equipment options, systems and configurations are available. For design assessment, information and advice, please contact an Elephants Foot design consultant on 1300 435 374

Please Note: This is an example only - please refer to supplier's information and specification



APPENDIX B: PRIMARY WASTE MANAGEMENT PROVISIONS



APPENDIX: B.1 TYPICAL BIN SPECIFICATIONS

Mobile bins

Mobile bins come in a variety of sizes and are designed for lifting and emptying by purpose-built equipment.

Mobile bins with capacities of up to 1700L must comply with AS4123.6-2006 Mobile waste containers which specifies standard sizes and sets out the colour designations for the bodies and lids of mobile waste containers indicating the type of materials they are used to collect.

The most common bin sizes are provided below, although not all sizes are shown. The dimensions are a guide only and differ slightly between manufacturers. Some bins have flat or domed lids and are used with different lifting devices. Refer to *AS4123.6-2006* for further details.

Table G1.1: Average dimension ranges for two-wheel mobile bins



Wheelie bin

Bin capacity	80L	120L		140L		240L	360L
Height (mm)	870	940	1065	1080	1100		
Depth (mm)	530	530		540		735	820
Width (mm)	450	485		500		580	600
Approximate footprint (m²)	0.24	0.26-0.33	3	0.27-0.33		0.41- 0.43	0.49
Approximate weight (kg)	8.5	9.5		10.4		15.5	23
Approximate maximum load (kg)	32	48		56		96	Not known

Sources include Sulo, Single Waste, Cleanaway, SUEZ, just wheelie bins and Perth Waste for two-wheel mobile bins

Table G1.2: Average dimension ranges for four-wheel bulk bins



Bin capacity	660L	770L	1100L	1300L	1700L
Height (mm)	1250	1425	1470	1480	1470
Depth (mm)	850	1100	1245	1250	1250
Width (mm)	1370	1370	1370	1770	1770
Approx footprint (m²)	0.86-1.16	1.51	1.33-1.74	2.21	2.21
Approx weight (kg)	45	Not known	65	Not known	Not known
Approx maximum load (kg)	310	Not known	440	Not known	Not known

Dome or flat lid container

Sources include Sulo, Signal Waste, Cleanaway, SUEZ, Just Wheelie Bins and Perth Waste



APPENDIX: B.2 SIGNAGE FOR WASTE AND RECYCLING BINS

Waste signs

Signs and educational materials perform several functions including:

- · informing residents why it is important to recover resources and protect the environment
- · providing clear instructions on how to use the bins and services provided
- · alerting people to any dangers or hazards within the bin storage areas.

All waste, recycling and organic bins should be Australian Standard colours and clearly and correctly labelled, such as by a sticker on the lid and/or the body of the bin.

Communal bin storage areas should be clearly signposted with signs outlining how to correctly separate waste into the bins provided. The local council responsible for waste services may be a good source of signs and posters and can advise on what signs are suitable.

Information on who to contact to find out more about the recycling and/or other resource recovery services in the building should also be displayed in communal areas, such as on a noticeboard.

The Planet Ark website also has resources available free of charge for use by businesses and councils. These signs can be found at businessecycling.com.au/research/signage.cfm

Figure I1.1: Examples of waste wall posters (EPA supplied)



Figure I1.2: Examples of bin lid stickers (EPA supplied)





Problem waste signs

The EPA has also produced a range of images and signs that can be used for problem wastes, such as fluoro globes and tubes, household and car batteries, e-waste and smoke detectors. To access these resources, contact the NSW EPA. Some examples are shown below.

Figure I2.1: Problem waste signs



Safety signs

The use of safety signs for waste resource recovery rooms must comply with AS1319 Safety signs for occupational environments. Safety signs must be used to regulate and control safety related to behaviour, warn of hazards and provide emergency information, including fire protection information. Suitable signs should be decided for each development as required.

Figure I3.1: Example safety signs





APPENDIX: B.3 EXAMPLE COLLECTION VEHICLE INFORMATION

General

Appropriate heavy rigid vehicle standards should be incorporated into the road and street designs in new developments where onsite collections are proposed. Road and street designs must comply with relevant Acts, regulations, guidelines, and codes administered by Austroads, Standards Australia, NSW Roads and Maritime Services, WorkSafe NSW and any local council traffic requirements.

Applicants and building designers should consult with councils and other relevant authorities before designing new roads or streets and access points for waste collection vehicles to establish specific design requirements.

Table H4.1: Australian Standards for turning circles for medium and heavy rigid class vehicles

Vehicle class	Overall length (m)	Design width (m)	Design turning radius (m)	Swept circle (m)	Clearance (travel) height (m)
Medium rigid vehicle	8.80	2.5	10.0	21.6	4.5
Heavy rigid vehicle	12.5	2.5	12.5	27.8	4.5

Source: Better Practice Guide For Resource Recovery In Residential Developments 2019, NSW Environmental Protection Authority

Large collection vehicles

Waste collection vehicles may be side-loading, rear-loading, front-lift-loading, hook or crane lift trucks. Vehicle dimensions vary by collection service, manufacturer, make and model. It is not possible to provide definitive dimensions, so architects and developers should consult with the local council and/or contractors.

The following characteristics represent typical collection vehicles and are provided for guidance only. Reference to AS2890.2 Parking facilities: off-street commercial vehicle facilities for detailed requirements, including vehicle dimensions, is recommended.

Table B2.1: Collection vehicle dimensions

Vehicle type	Rear-loading	Side-loading*	Front-lift- loading	Hook truck	Crane truck
Length overall (m)	10.5	9.6	11.8	10.0	10.0
Width overall (m)	2.5	2.5	2.5	3.0	2.5
Travel height (m)	3.9	3.6	4.8	4.7	3.8
Operational height for loading (m)	3.9	4.2	6.5	3.0	8.75
Vehicle tare weight (t)	13.1	11.8	16.7	13.0	13.0
Maximum payload (t)	10.0	10.8	11.0	14.5	9.5
Turning circle (m)	25.0	21.4	25.0	25.0	18

^{*} The maximum reach of a side arm is 3 m.

Sources: JJ Richards, SUEZ, MacDonald Johnson, Cleanaway, Garwood, Ros Roca, Bingo and Edbro. Figures shown represent the maximum dimensions for each vehicle type.



Rear-loading collection vehicles

These vehicles are commonly used for domestic waste collections from MUDs and RFBs and sometimes for recycling. They can be used to collect waste stored in mobile bins or bulk bins, particularly where bins are not presented at the kerbside. They are also used for collecting bulky waste.



Rear-loading waste collection vehicle

Side-loading collection vehicles

This is the most commonly used vehicle for domestic waste, recycling and organics collections. It is only suitable for collecting mobile bins up to 360L in capacity.



Side-loading waste collection vehicle

Front-lift-loading collection vehicles

These vehicles are commonly used for collecting commercial and industrial waste. They can only collect specially designed front-lift bulk bins and not mobile bins.



Front-lift-loading waste collection vehicle

Small collection vehicles

Typically, councils and their contractors operate with large collection vehicles (heavy rigid class vehicles) because they carry greater payloads and allow for more cost-effective collection services. Some councils, or their contractors, may have smaller collection vehicles in their fleet. Early discussion with the council is important to confirm this, but it should not be assumed that the council will have access to small collection vehicles.

The waste management systems and the location of the collection point should always be designed so that the council can provide the standard domestic waste service.



APPENDIX C: SECONDARY WASTE MANAGEMENT PROVISIONS



APPENDIX: C.1 EXAMPLE HANDHELD BIN MOVERS



MOVEXX T2500 BIN MOVER BATTERY ELECTRIC

Moveox T2500 Tow Tug is an extremely user friendly battery powered mobile towing unit that is ideal for applications where trolleys and rolling objects need to be moved from one place to another simply, efficiently and without physical effort. Some standard features included are: battery indicator, on board battery charger, battery, adjustable handle, dual speed and electric brake.

These units are fitted with an electromagnetic brake system for use on ramps and slopes

Features

- · Electromagnetic brake for use on ramps and slopes
- Adjustable height handle



SPEC	IFICATION				
MODEL	DIMENSIONS (MM)	OPTIONS		PULL - PUSH CAPACITY (KG)	BATTERY
T2500-D	511 (w) x 757 (l)	* Centre mount 2x 240 lt. wheelie	bin attachment	2500	AGM batteries 2x 85AH up to 8 hrs continuous operation
1	OWING CAPACITY - ON F	LAT GROUND (all models)		TOWING CAPACITY - SLOPE	(all models)
	Towing up to 4x 66	50 lt. Wheelie Bin	Towing up to 2)	x 660 lt. Wheelie Bin Up / Dow	m maximum 25% (1:4 slope)
	Towing up to 4x 11	00 lt. Wheelle Bin	Towing up to 1x	1100 lt. Wheelie Bin Up / Day	vn maximum 25% (1:4 slope
			**Ele	ctromagnetic brake for use on	ramps and slopes



Please Note: This is an example only – please contact supplier for specific recommendations.

Source: Sitecraft - <u>www.sitecraft.net.au</u>



APPENDIX: C.2 EXAMPLE SEATED BIN MOVERS



MOTREC MT180 36V BATTERY ELECTRIC BIN MOVER

This hardworking tow device delivers outstanding performance. With its efficient motor and 4,500kg push-pull capacity.

The MTI80 is ideal for moving bin trailer also narrow enough to fit through most door openings. From its all-steel construction

to its all-wheel brailing, this tow tractor is built for years of heavy use in total comfort and safety. All this combined with superior AC technology makes short work of though requests.

- Front & rear brakes
- Preumatic Tyres
 Comfortable ergonomic adjustable seat.
- Complete with headlight, break lights, tailing lights & hom



MODEL	DIMENSIONS (MM)	OPTIONAL EXTRAS	PULL - PUSH CAPACITY (KG)	BATTERY
		Flashing light on pole		
V3E 081TN	760 (w) x 2030 (l)	Conditional registration kit	4500	48V TPPL battery pack
(T180 36V x 1160 (h)	x 1160 (h)	Cabin includes windscreen	4500	157AH
		Weather Curtains		
	T	OWING CAPACITY - ON FLAT GROUND / SLOP	E (all models) (all models)	

Towing up to 4x 1100 lt. Wheelie Bin Up / Down maximum 25% (1:4 slope)



Please Note: This is an example only – please contact supplier for specific recommendations.

Source: Sitecraft - <u>www.sitecraft.net.au</u>



APPENDIX: C.3 EXAMPLE BIN TRAILERS



BIN TRAILER

Bin trailer suitable for moving 240lt, 660lt and 1,100lt bins including a 1200mm rear ramp complete with locking latches and gas strut assist. Height draw bar fitted with a jockey wheel large pneumatic tyres with precision bearing hubs





MODEL	DIMENSION (MM)	SUITABLE FOR MOVING	PART NUMBERS	REAR RAMP DIMENSION (MM)
4x Bins Trailer	Internal - 1560 (I) × 1200 (w)	4x 240lt. Wheelie Bin	78811604	1200mm rear ramp complete with
4x Diris Trailer	External - 2300 (I) x 1500	1x 110lt. Wheelie Bin	70011004	positive locking and gas strut assis
6x Bins Trailer	Internal - 2350 (I) x 1200 (w)	6x 240lt. Wheelie Bin	78811065	1200mm rear ramp complete witi positive locking and gas strut assis
	External - 3100 (I) x 1500 (w)	3x 660lt. Wheelie Bin		
	external - 3100 (i) x 1500 (w)	2x 1100lt. Wheelie Bin		
	Internal - 3200 (I) x 1200 (w)	8x 240lt. Wheelie Bin	78811066	1200mm rear ramp complete with positive locking and gas strut assis
8x Bins Trailer	External - 3900 (I) x 1500 (w)	4x 660lt. Wheelie Bin		
		3x 1100lt, Wheelie Bin		
	Internal - 3900 (I) x 1200 (w)	10x 240lt. Wheelie Bin		1000
0x Bins Trailer		5x 660lt. Wheelie Bin	78811067	1200mm rear ramp complete with positive locking and gas strut assis
	External - 4600 (I) x 1500 (w)	4x 1100lt. Wheelie Bin		positive locking and gas strat assis
OPTIO	NC			

• Upgrade Includes : Lights | Wiring | Suspension | aaa Tyres | Compliance Plate

Please Note: This is an example only – please contact supplier for specific recommendations.

Source: Sitecraft - <u>www.sitecraft.net.au</u>



APPENDIX: C.4 EXAMPLE BIN TOWING ATTACHMENTS

Logistec

UNIVERSAL BIN TOWING ATTACHMENTS

SUITE 660LT / 1100LT WHEELIE BINS

PARTS & FEATURES

Front Only - Part Number: 78811672

- Suit Sulo & Otto 600it / 1100it MGBs
- · Spring loaded draw bar folds up
- . No drilling of holes in the bin required
- . Solidly fixed to the base of the bin using the castor mounting bolts
- · Passivated zinc finish for long life
- Correct Rear Fixed or Directional Lock castors should be used

Rear Only - Part Number: 78811673

- Suit Sulo & Otto 600lt / 1100lt MGBs
- . No drilling of holes in the bin required
- . Solidly fixed to the base of the bin using the castor mounting bolts
- Passivated zinc finish for long life
- Correct Rear Fixed or Directional Lock castors should be used

For Steel Bin Front Only - Part Number: 78811781

- . Suit Sulo & Otto 600it / 1100it MGBs
- No drilling of holes in the bin required
- · Solidly fixed to the base of the bin using the castor mounting bolts
- Passivated zinc finish for long life
- Correct Rear Fixed or Directional Lock castors should be used

Direction Lock: 53191001

- Suit Sulo & Otto 600lt / 1100lt MGBs
- No drilling of holes in the bin required
- Solidly fixed to the base of the bin using the castor mounting bolts
- Passivated zinc finish for long life
- Correct Rear Fixed or Directional Lock castors should be used





Please Note: This is an example only – please contact supplier for specific recommendations.

Source: Sitecraft - www.sitecraft.net.au



APPENDIX: C.5 EXAMPLE BIN LIFTER FOR 240L BINS



Versatip Bin Tipper - 1500mm Tip



Specifications

Product Code	69121009
Product Name	1500mm Tip – Battery Powered
Capacity (kg)	250
Height (mm)	2085
Length (mm)	1330
Power Source	Battery Powered
Tipping Height (mm)	1500
Width (mm)	990

Please Note: This is an example only – please contact supplier for specific recommendations.

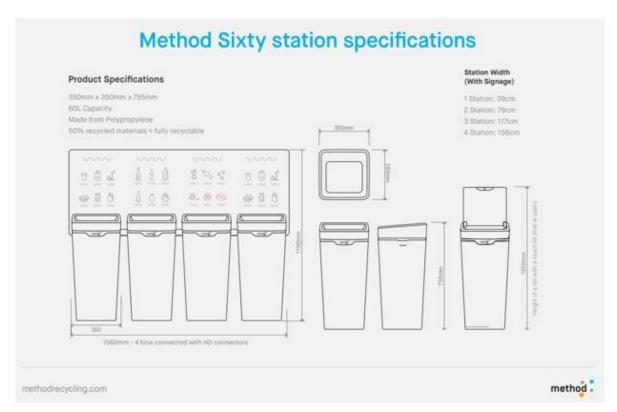
Source: Elephants Foot Equipment - www.elephantsfoot.com.au/equipment/



APPENDIX: C.6 EXAMPLE SOURCE SEPARATION RECEPTACLES







Source: Method Recycling - www.methodrecycling.com