

Waste Management Plan

Prepared for: GL Investment Co Pty Ltd ATF GL No 1 Trust

Project Site: 161 Sussex Street Redevelopment

Date of Issue: 8th June 2012

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1. INTRODUCTION

Wastech Services Pty Ltd was commissioned by GL Investment Co. Pty Ltd ATF CL No1 Trust to prepare a waste and recycling plan associated with a proposed expansion project to be located at 161 Sussex Street Sydney.

The hotel currently consists of:

- 696 Hotel Rooms;
- Conference and Meeting Spaces (1,160m², estimated);
- Prefunction and Circulation Facilities (180m², estimated);
- Dining Area (300m², estimated);
- Kitchen (240m², estimated);and
- Bars (330m², estimated).

The expanded configuration comprises:

- 927 Hotel Rooms;
- Conference and Meeting Spaces (3,065m², estimated);
- Prefunction and Circulation Facilities (1,075m², estimated);
- Dining Area (570m², estimated);
- Kitchen (775m², estimated);and
- Bars (330m², estimated); and
- Offices (GFA 5,775m² estimated).

Scope: Wastech Services will review the building layout drawings and provide a Waste Management Plan incorporating the current waste management system with the expansion project to 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.

Conclusion:

Wastech Services Pty Ltd has analysed the waste requirements of the expanded hotel/conferencing facility and confirms that these can be managed via the existing facility in the loading dock plus the new commercial garbage room.

2. OPERATIONAL SUMMARY

Management of the waste services need to be conducted as follows to work within the newer garbage rooms.

Hotel/Conferencing

- Cleaning/kitchen staff will be responsible for transferring bagged garbage and recyclables for disposal in the compactor located in the lower ground level hotel refuse area
- Cleaning/kitchen staff will be responsible for transferring food waste in 125 litre bins for disposal to lower ground level hotel refuse room
- Cleaning/kitchen staff will be responsible for transferring cardboard to the cardboard baler for disposal in the lower ground level hotel refuse room
- The hotel manager will be responsible for transferring all full bins for collection from the hotel refuse room to the BOH collection point and return to the refuse rooms upon completion of collection
- The hotel manager shall prepare the compactor for collection and coordinate with the private collection contractors on day of collection
- Collections shall be performed seven (7) times a week for the garbage/recycling and food waste streams, and twice (2) times a week for the cardboard recyclables. All hotel waste collections shall be conducted by private contractors from within the lower ground level loading zone which has entry off Slip Street

Based on our figures and calculations the current compactor can cater for the expected increase in garbage and recyclable waste from the hotel, with the frequency of collections being increased. Additional bins will be required to transfer food waste from the kitchens and hotel rooms.

Commercial

- Cleaning staff shall transfer full 240 litre garbage bins, recycling bins and 240 litre paper bins from each office level to the lower ground level commercial refuse room for collection; and return clean empty bins to each office level
- Collections shall be performed up two (2) times a week for garbage with weekly collections for the recycling and paper waste streams.
- Collections shall be conducted by private waste collection contractors from within the lower ground level commercial refuse room in the loading zone which has entry off Slip Street.

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 Cadence Australia and Cox Richardson Architects.
- Waste volume figures are estimates only and will be influenced by the guests 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 hotel manager via appropriate contractors.
- Liquid waste such as cooking oil shall be collected and disposed of by a specialist contractor engaged by the tenancy operator. Waste oil will be stored within the tenancy and collected as required.

3.3 Refuse Area

Refer to Cadence drawing - Lower Ground Level Plan Revision F - Appendix X

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.

	Garbage	Food Waste	Recycling	Cardboard/Paper
Hotel Rooms	2.27	0.32	1.36	0
Conference & Meeting Space	2.15	1.07	42.91	0
Prefunction & Circulation	0.75	0.38	15.05	0
Kitchens/Café/Bar/Dining	70.35	17.59	70.35	11.73
Offices	2.89	0	1.44	1.44
Total (m³/wk uncompacted)	78.41	19.36	131.11	13.17
Collection Bins	240 litre bins	125 litre bins	240 litre bins	240 litre bins

5. HOTEL WASTE MANAGEMENT

The following is recommended:

5.1 Waste Streams

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

- Garbage and Recycling (Glass, PET, aluminium, steel and HDPE);
- Food waste;
- Cardboard and Paper.

5.2 Hotel Rooms

Hotel rooms shall be furnished with suitable plastic lined garbage bins. Cleaning staff shall periodically transfer bagged garbage and commingled recycling using a cleaner's trolley or similar, into 240 litre collection bins located in the maids pantry area on each guest level. Cleaning staff shall empty full 240 litre bins into the compactor located in the lower ground level loading bay utilising a bin lifter, and return clean empty bins to the maids pantries.

Cleaning staff shall periodically transfer food wastes, using a cleaner's trolley or similar, to the 125 litre collection bins located in the maids pantry area on each level. Cleaning staff shall transfer full 125 litre bins to the bin storage area within the loading bay on the lower ground level and return clean empty bins to the maids pantries.

5.3 Convention Meeting Space

The convention meeting space comprises of meeting rooms, function rooms and prefunction rooms.

Rooms will be furnished with suitably sized plastic lined bins. Cleaning staff shall transfer bagged garbage and commingled recycling using a cleaner's trolley or similar, into 240 litre collection bins located in the kitchens at ground and mezzanine levels. Cleaning staff shall empty full 240 litre bins into the compactor located in the lower ground level loading bay, utilising a bin lifter, and return clean empty bins to the kitchens.

Cleaning staff shall transfer food wastes, using a cleaner's trolley or similar, to the 125 litre collection bins located in the kitchens on the ground and mezzanine floors. Cleaning staff shall transfer full 125 litre bins to the bin storage area within the loading bay on the lower ground level and return clean empty bins to the kitchens.

5.4 Kitchen/Café

Plastic lined garbage and recycle bins, 240 litre capacity, shall be provided for the kitchen/café areas. Kitchen/café staff shall empty full 240 litre bins into the compactor located in the lower ground level loading bay, utilising a bin lifter, and return clean empty bins to the kitchens.

Food waste bins, 125 litre capacity, shall be provided for the kitchen/cafe areas. Kitchen staff shall periodically transfer full food waste bins to the hotel refuse room at lower ground level for disposal. Kitchen staff shall collect clean empty bins for return to the kitchen/bar/dining areas upon deposit of full bins.

5.5 Garbage & Recycling Collection

The hotel operator shall prepare all 125 litre bins and the transportable compactor for collection and coordinate with collection vehicle arrival so that bins or vehicles do not impede access into the loading dock.

Full 125 litre bins only are to be transferred to the collection point on day of collection and returned to the refuse storage area upon completion of collection by the hotel operator.

Seven (7) times a week food waste collections are envisaged for the hotel.

Seven (7) times a week garbage and recyclable waste collections are envisaged for the hotel.

Two (Twice) a week cardboard Bales collections are envisaged for the hotel.

The collection of waste and recycling bins is to be performed by a private collection contractor to be confirmed by Cadence Australia, from within the loading dock which has entry off Slip Street.

A minimum 5.5m overhead clearance is provided within the loading dock. The minimum overhead clearance height required for a transportable 8m³ compactor is truck is 4.5m.

Refer to Traffic management consultants CBHK traffic report to confirm collection vehicle swept path.

6. HOTEL WASTE HANDLING EQUIPMENT

The following waste handling equipment is recommended.

Compactor: 8 cubic meter transportable compactor

Compacted calculation = (weekly garbage+recycling volume/3:1 compaction ratio)
= (36.19+87.83/3): 41.345m³ for weekly collection

Note: to be operated by building manager and collected by private contractor

Cardboard Compactor: Cardboard compactor with holding cage and compaction ratio of 3:1,

Note: to be operated by building manager and collected by private contractor

Bin Lifter: Bin Lifter for lifting 240 litre garbage/recycling bins into compactor.

7. HOTEL WASTE CALCULATIONS

TOTAL			
GARBAGE / COMMINGLED RECYCLED			
Weekly Garbage Volume	160.13		cubic metres
Compacted Volume	53.37		ratio 3:1
8m ³ Compactor	8		cubic metre
Frequency of collection	7		per week
Bins required for transfer	1		240 litre

FOOD / ORGANIC WASTE			
Weekly Organic Volume	18.29		cubic metres
Bin Type	125		litre
Frequency of collection	7		per week
Bins required for collection	21		
Organic Total bins required	21		

CARDBOARD			
Weekly Paper/Cardboard Volume	11.73		cubic metres
Compacted Volume	3.91		ratio 3:1
Bale Size (LxW)	1.300x1.300		Square metre
Frequency of collection	2		weekly
Approximate number of bales collected	2		per week

8. COMMERCIAL WASTE MANAGEMENT

The following is proposed:

8.1 Waste Streams

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

- Garbage and Recycling (Glass, PET, aluminium, steel and HDPE);
- Paper.

8.2 Offices / Administration

Office work stations and amenities shall be furnished with suitable plastic lined garbage bins. Cleaning staff shall periodically transfer recyclables into a 240 litre bin for disposal in the commercial refuse room at lower ground level.

Suitable recycling bins shall be provided for the office work stations and amenities. Cleaning staff shall periodically transfer recyclables into a 240 litre bin for disposal in the commercial refuse room at lower ground level.

240 litre paper bins will be provided on each level. Cleaning staff shall transfer full paper bins to the refuse area of the loading bay on the lower ground level for disposal. Cleaning staff shall return clean empty bins to each office level.

8.3 Garbage & Recycling Collection

The building manager shall prepare all 240 litre bins for collection and coordinate with collection vehicle arrival so that bins or vehicles do not impede access into the loading dock.

Full bins only are to be transferred to the collection point on day of collection and returned to the commercial refuse room upon completion of collection by the building manager.

Two (2) times a week garbage and weekly recyclable and paper waste collections are envisaged for the offices.

The collection of waste and recycling bins is to be performed by private contractors, to be confirmed by Cadence Australia, from within the loading dock at lower ground level which has entry off Slip Street.

The minimum overhead clearance height required for a rear lift garbage collection truck is 3.5m. A minimum 5.5 m overhead clearance height is provided at the waste collection area and for the collection vehicle path of travel. Traffic management consultants shall advise and confirm how collection vehicles are to manoeuvre within the lower ground level from Slip Street to the collection point.

9. COMMERCIAL WASTE CALCULATIONS

TOTAL			
GARBAGE / COMMINGLED RECYCLED			
Weekly Garbage Volume	2.64		cubic metres
Bin Type	240		litre
Frequency of collection	2		per week
Bins required for transfer	7		per week

RECYCLABLES			
Weekly Recycle Volume	1.32		cubic metres
Bin Type	240		litre
Frequency of collection	1		per week
Bins required for collection	7		per week

PAPER			
Weekly Paper Volume	1.32		cubic metres
Bin Type	240		litre
Frequency of collection	1		weekly
Bins required for collection	7		per week

(One garbage bin, one recycle bin and one paper bin per office floor)

10. BIN SUMMARY

10.1 Hotel Bins for Storage and Collection

125 litre Food Bins	30
8m ² Compactor	1
Cardboard Bales	2

10.2 Commercial Refuse Room

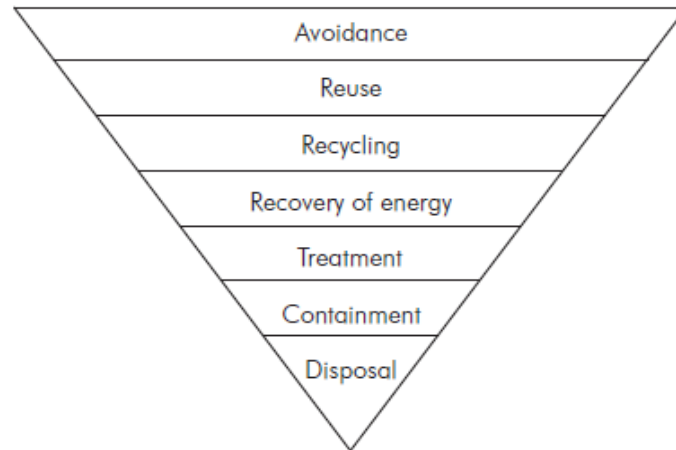
240 litre Garbage Bins	7
240 litre Recycle Bins	7

10.3 Commercial Bins for Collection

240 litre Garbage Bins	7
240 litre Recycle Bins	7
240 litre Paper Bins	7

11. WASTE MINIMISATION STRATEGIES

The operator will be responsible for the education of staff 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 staff
- Distribution of notices to all staff 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/garbage bins
- 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

12. ADDITIONAL WASTE MANAGEMENT INFORMATION

As bins and cleaner's trolley 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 hotel operator will assess manual handling risks as per regulatory requirements and provide appropriate documentation to staff;
- Signage and usage labels for the garbage and recycling bins will be provided by the operator;
- Bin stores 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 has been provided;
- The hotel operator shall keep clean the bin stores, keep bin lids closed and wash bins regularly;
- The hotel operator will ensure prompt return of empty bins once collection has occurred;
- The hotel and commercial operators shall source and enter into service agreements for waste collection services. The hotel operator will be responsible for all payments and costs associated with the waste collection services provided by collection contractors;
- The hotel operator 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 hotel operator in consultation with Sydney City Council prior to collections being performed on site.

13. CONTACT INFORMATION

City of Sydney

GPO Box 1591, Sydney NSW 2001

Ph 9265 9333

council@cityofsydney.nsw.gov.au

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

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 1 – Hotel Waste Calculations

Site	161 Sussex Street Expansion Project	Date:	8-Jun-12
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Hotel Rooms			
No of Hotel Rooms	927	Usage: 7 days per week	
Garbage for Disposal (m ³ /wk uncompactd):	2.27	(Rate: m ³ /day/100m ² area)	0.035
Food Waste (m ³ /wk uncompactd):	0.32	(Rate: m ³ /day/100m ² area)	0.005
Recyclables m ³ /wk uncompactd):	1.36	(Rate: m ³ /day/100m ² area)	0.021
Conference and Meeting Spaces			
Floor Area (m ² , estimated)	3065	Usage: 7 days per week	
Garbage for Disposal (m ³ /wk uncompactd):	2.15	(Rate: m ³ /day/100m ² area)	0.010
Food Waste (m ³ /wk uncompactd):	1.07	(Rate: m ³ /day/100m ² area)	0.005
Recyclables m ³ /wk uncompactd):	42.91	(Rate: m ³ /day/100m ² area)	0.200
Prefunction and Circulation			
Floor Area (m ² , estimated)	1075	Usage: 7 days per week	
Garbage for Disposal (m ³ /wk uncompactd):	0.75	(Rate: m ³ /day/100m ² area)	0.010
Food Waste (m ³ /wk uncompactd):	0.38	(Rate: m ³ /day/100m ² area)	0.005
Recyclables m ³ /wk uncompactd):	15.05	(Rate: m ³ /day/100m ² area)	0.200
Kitchens/Café/Bar/Dining			
Floor Area (m ² , estimated)	1675	Usage: 7 days per week	
Garbage for Disposal (m ³ /wk uncompactd):	70.35	(Rate: m ³ /day/100m ² area)	0.600
Food Waste (m ³ /wk uncompactd):	17.59	(Rate: m ³ /day/100m ² area)	0.150
Recyclables (m ³ /wk uncompactd):	70.35	(Rate: m ³ /day/100m ² area)	0.600
Cardboard (m ³ /wk uncompactd):	11.73	(Rate: m ³ /day/100m ² area)	0.100
TOTALS			
Garbage (m³/wk uncompactd):	73.37		
Food Waste(m³/wk uncompactd):	18.29		
Recyclables m³/wk uncompactd):	86.76		
Cardboard (m³/wk uncompactd):	11.73		

References/Notes:

Brisbane City Council - "Draft" Development Applications - Waste Management and Resource Recovery Guidelines 2007

Combined Sydney Region of Councils - Draft Waste Management Guidelines 2005 and 2008

APPENDIX 2 – Commercial Waste Estimate

Job:	161 Sussex Street Redevelopment	Date:	5-Jun-12
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OFFICES			
Floor Area (m ² , estimated)	5775	Usage: 5 days per week	
Garbage (m ³ /wk uncompacted):	2.89	m ³ /day/100m ² area	(Rate: 0.010
Office Paper (m ³ /wk uncompacted):	1.44	m ³ /day/100m ² area	(Rate: 0.005
Recyclables m ³ /wk uncompacted):	1.44	m ³ /day/100m ² area	(Rate: 0.005
TOTALS			
Garbage (m³/wk uncompacted):			2.89
Office Paper (m³/wk uncompacted):			1.44
Recyclables m³/wk uncompacted):			1.44

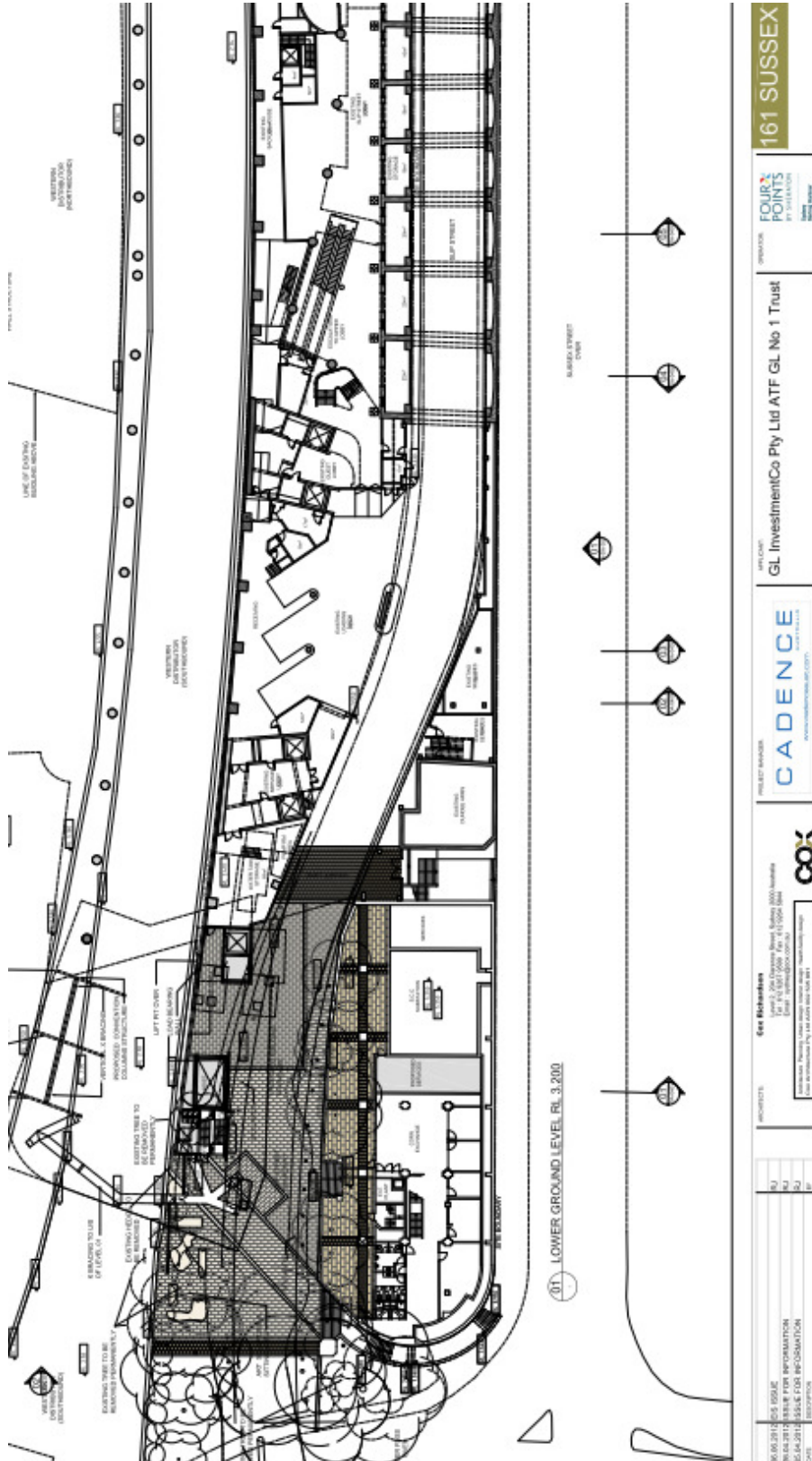
References/Notes:

Brisbane City Council - "Draft" Development Applications - Waste Management and Resource Recovery Guidelines 2007

Combined Sydney Region of Councils - Draft Waste Management Guidelines 2005 and 2008

APPENDIX 3 – Hotel Loading Bay

Extract of Cadence Drawing A-DA-0200 rev F



APPENDIX 4 – Bin Dimensions 120 litre bin

120 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

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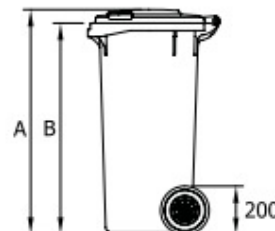
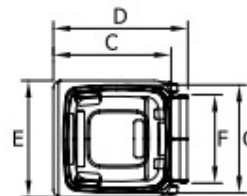
Quality

- Certified according to EN840
- Manufactured in accordance with AS4123

Dimensions - Weights - Standards

- Nominal volume: 120 litres
 - Net weight: approx 9.3 kg
 - Max load: 48 kg
 - Permitted total weight: 60 kg
- | | | |
|------------|------------|------------|
| ■ A 930 mm | ■ D 545 mm | ■ G 480 mm |
| ■ B 870 mm | ■ E 480 mm | |
| ■ C 480 mm | ■ F 335 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



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©2009 Subject to technical amendments. *Minimum batch quantities required

101124-400

APPENDIX 5- Bin Dimensions 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

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Quality

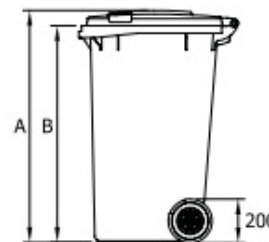
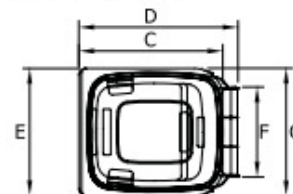
- Certified according to EN840
- Manufactured in accordance with AS4123

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



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©2009 Subject to technical amendments. *Minimum batch quantities required

28340-709

APPENDIX 6 – Example of Transportable Compactor

Transportable Compactor







Transportable Compactors for compaction & containment of medium to large volumes of wet & general waste

The transportable compaction head is joined to the compaction container to suit wet or food type wastes. When full, the whole unit is transported off site for emptying. The units can be Hand, Bin Lifter or Chute loaded and comply with all Australian Safety Standards. Superior compaction forces provide high payloads to reduce transport costs to landfill.

Features

- A raised packer floor repels liquids from the compaction area.
- Rolled container walls reduce tare weight and improves cleanliness.
- Large compaction chamber to suit high throughput and larger product.
- Remote mounted power pack and controls to reduce tare weight and prevent shock loads during transport.
- Dual action rear door seal and turn buckle lock for maximum liquid retention.

Options

- Various Feed Hoppers
- Mobile Bin Lifters
- Remote SMS Monitoring
- Reversible pick up
- Odour Control System
- Custom sized units

Technical specifications

* other models and technical specifications available

MODEL	BLADE PAK	AUG-PAK
Swept Volume	1.0m ³	1.0m ³
Clear Top Opening	1500 x 1000	1300 x 1000
Machine Throughput m ³ /hr	109	120
Cylinder Size	2 x 102mm	N/A
Blade Penetration into Bin	200mm	350mm
Cycle Time	33seconds	Continuous
Normal Packing Force	158 kpa	Variable
Max. Packing Force	196 kpa	19,000 nm torque
Max. Hyd. Pressure	159 bar	N/A
Pump Displacement	38 lt/min	Gear Driven
Electric Motor Size	7.5 kw	7.5 kw
Volts/Amps Required	415volt / 20amp	415volt / 20amp



General arrangement drawing - Model Bladepak



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APPENDIX 7 – Example of BALER



Bramidan Balers

MODEL: 4 X 16



MODEL: 3 X 12



MODEL: B4



MODEL: B3



Bramidan Vertical Balers compact a range of products from Cardboard, Plastic, Polystyrene and Waste in dense bales for ease of handling and lower transport costs.

Technical specifications

	4 X 30	4 X 16	3 X 12	B4	B3
Press Force (t)	30	16	12	4	3
Bale Weight (kg) - Cardboard	340	230	80 - 100	70 - 100	30 - 50
Bale Weight (kg) - Plastic	450	300	100 - 120	80 - 120	40 - 70
Bale size LxWxH (mm)	1200 x 800 x 1000	1200 x 800 x 800	800 x 600 x 600	1000 x 700 x 850	700 x 500 x 700
Loading Door Opening WxH (mm)	1090 x 600	1090 x 510	715 x 715	1000 x 490	700 x 490
Cycle Time (sec)	50	28	20	18	18
Machine Dimensions LxWxH (mm)	1720 x 1290 x 2280	1720 x 1220 x 1980	1245 x 760 x 1890	1270 x 850 x 2400	870 x 660 x 1980
Machine Weight (kg)	1540	1320	835	580	420
Power Requirement	415V x 16A 3 phase	415V x 16A 3 phase	415V x 16A 3 phase	240V x 10A Single Phase	240V x 10A Single Phase



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