

# Waste guidelines for new residential, commercial and mixed-use developments within Cardinia Shire Council



These guidelines are to provide some basic guidance to developers around waste and waste collection in Cardinia Shire. This document outlines what needs to be provided with planning applications to allow council officers to assess waste provision.

All residential developments, and the residential components of mixed-use developments, should be planned to allow for Council’s Waste Services to deliver a waste collection.

This ensures that residents have every opportunity to receive an efficient and cost-effective waste service which they are required to pay for regardless under the *Local Government Act*.

A waste management plan must be submitted with a planning permit application for developments of three or more dwellings, for small commercial sites and for mixed use sites that require a kerbside waste collection.

## Council’s waste collection services – residential and small commercial

Council currently provides the following waste service to each residential property in the Shire. Some small commercial properties can utilise these services, with a limit of 4 bins per commercial property inclusive of all bin types. Commercial bins must be presented to the kerbside under the same conditions as the residential service.

Table 1. Residential waste collection

<p><b>Garbage</b></p> 	<p>120L or 80L bin option Red lid</p>	<p><b>Collected weekly</b> From side lift vehicle (left-hand side)</p>
<p><b>Recycling</b></p> 	<p>240L bin Yellow lid</p>	<p><b>Collected fortnightly</b> From side lift vehicle (left-hand side)</p>

<p><b>Food and Garden organic waste</b></p> 	<p>240L or 120L bin option Light Green lid</p>	<p><b>Collected fortnightly</b> From side lift vehicle (left-hand side) Currently an optional service</p>
<p><b>Separated Glass recycling</b></p>	<p>TBC Purple lid <i>Service to be in place before 2027</i></p>	<p><b>TBC</b></p>
<p><b>Hard Waste collection</b></p> 	<p>2 cubic metres per property.  For multi-occupancy housing allow 2m3 allocated space for every 3 dwellings.</p>	<p><b>Bookable collection.</b> From rear load and flat tray vehicle.</p>

*Note: Additional bins are available to properties that may be producing more waste than what is outlined, this is based on assessment of request and payment by the rate payer. Maximum of 6 bins per residential property (combination of any type).*

Bin dimensions must be considered when locating bins. Adequate bin storage areas must be constructed along with adequate space for presentation during collection:

- Bin storage areas must allow for a minimum of 4 bins per dwelling. Storage area distance cannot exceed 40 meters from bin presentation area.
- Presentation areas must provide space for a minimum of 3 bins to be presented kerbside at the same time per dwelling (Table 3). Allow 50cm of space between each bin or other obstruction, such as poles, trees, etc. to allow safe reach of the truck arm (Figure 1).

**Table 2. Standard bin sizes used in Cardinia Shire kerbside collection**

Type (Litres)	Width (m)	Depth (m)	Height (m)
120	0.5	0.6	1.0
240	0.6	0.8	1.1

*Figure 1. Example of bin spacing for 3 bins.*



**Table 3.**

*Kerbside frontage space required for collecting standard Cardinia wheeled bins with appropriate spacing*

Total minimum kerbside frontage required including spacing (metres)	
<b>One property</b>	<b>2.2 m</b>
<b>Two properties</b>	<b>5.4m</b>
<b>Three properties</b>	<b>8.1m</b>
<b>Four properties</b>	<b>10.8m</b>
<b>Five properties</b>	<b>13.5m</b>
<b>Six properties</b>	<b>16.2m</b>
<b>Seven properties</b>	<b>18.9m</b>
<b>Eight properties</b>	<b>21.6m</b>
<b>Nine properties</b>	<b>24.3m</b>
<b>Ten properties</b>	<b>27m</b>

Sizes of waste collection vehicles must be accounted for with consideration given to pedestrian safety and property damage when vehicles are turning. This should be clearly outlined in plans accompanying the Waste Management Plan.

Clear access is required to accommodate the height of the waste truck, the arm lifting the bin, the length of the waste truck and the turning circle. There are to be no property overhangs (awnings, balconies etc), parking or other mobile obstructions on days of waste collection.

Note: waste collection vehicles may change with different council contracts. To allow for changes and access for emergency vehicles, provision of access and turning should be constructed to AustRoads standards for 8.8m service vehicles and account for the maximum dimensions of 10.8m in length and 3.92m in height

Figure 2. Dimensions of residential kerbside garbage and recycling collection vehicles currently used in Cardinia Shire (2020)

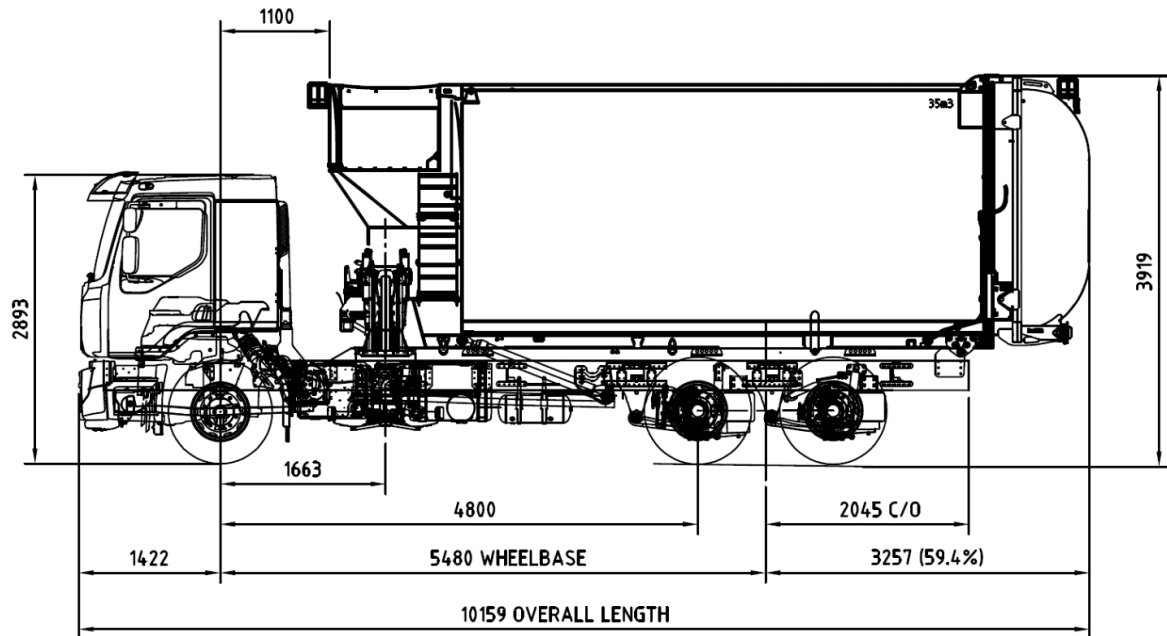


Figure 3. Dimensions of Hard Waste collection vehicles currently used in Cardinia Shire (2020)

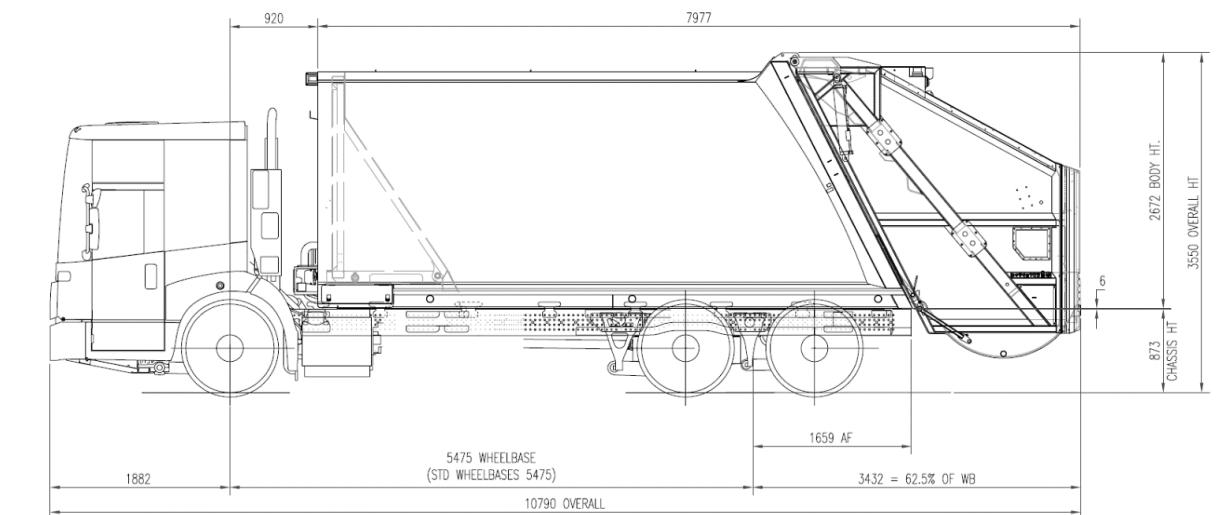


Figure 4. Example of kerbside street collections. Note: Left hand vehicle arm can extend to maximum of 3.8 metres.



## Waste generation and other information to consider when developing the waste management plan.

Commercial and multi-unit residential properties proposing private waste services must show calculation of waste generation. This can be calculated using the Sustainability Victoria tool <https://calculators.sustainability.vic.gov.au/mud-waste-management/>

For residential properties using Council services: 120 Litres garbage per week + 240 Litres recycling (combination) per fortnight + 120 OR 240 Litres green waste is suitable for properties of up to 3 bedrooms.

Properties of 4+ bedrooms should have consideration given to if additional garbage or recycling bins may need to be accommodated. Additional food and green waste bins would be dependent on food waste management in the home and property garden size. Food and green waste bins and additional garbage or recycling bins are supplied at cost to the ratepayer in addition to that of the general garbage charge.

### Mixed use developments

Developments proposed with commercial components as well as residential dwellings will be assessed as to whether they are suitable for a kerbside waste collection on a case-by-case basis, please note additional information:

- Commercial waste must not be mixed with residential waste.
- Clinical waste private service arrangements must be made for any type of medical facilities.
- Private service arrangements may need to be made for commercial premises.
- Collection methods should not negatively impact the amenity of the area.

Commercial businesses are responsible for their own waste collection arrangements and may take up the services of any number of commercial waste collection providers, or Council's commercial waste collection service.

## Kerbside Collection

Council's waste service vehicles can collect from private roads if several requirements are met. This includes:

- Provision of a satisfactory and full swept-path diagram for the entire area.
- Provision of a satisfactory map of all bin collection points with suitable spacing allocations.
- Provision of a Section 173 Agreement.

All swept path diagrams must show waste collection vehicles traveling forwards without reversing. To enable safe vehicle movement, courts, cul-de sacs and 't-heads' should be designed to accommodate waste truck movements and manoeuvres.

## Cul De Sacs and Turning Areas.

Where a residential street includes a Cul de Sac or a court, provision must be made for a standard 8.8 metre service vehicle to turn in a "three-point move" (drive in - reverse - drive out) on the pavement area (see figure 5). The vehicle may overhang the kerb provided the area behind the kerb is clear of obstructions. Vehicle crossings must not form part of the paved turn area.

At the temporary end of a street, which will be extended in a later stage of the development, provision must be made for a standard 8.8 metre service vehicle to turn in a "three-point move" (drive forward - reverse - drive out) on a paved area. The turning area may comprise either a temporary pavement or residential vehicle crossing. If a vehicle crossing forms part of the temporary turning area it must be constructed as a Heavy Duty Crossing as per EDCM 503.

Bin placement must be able to occur on the straights of the road (see figure 6) with sufficient street frontage to accommodate bins and spacing for the appropriate number of properties. (see figure 3 above).

*Figure 5. Minimum dimensions of turn areas (reference [Engineering Design and Construction Manual for Subdivision in Growth Areas](#) (2019))*

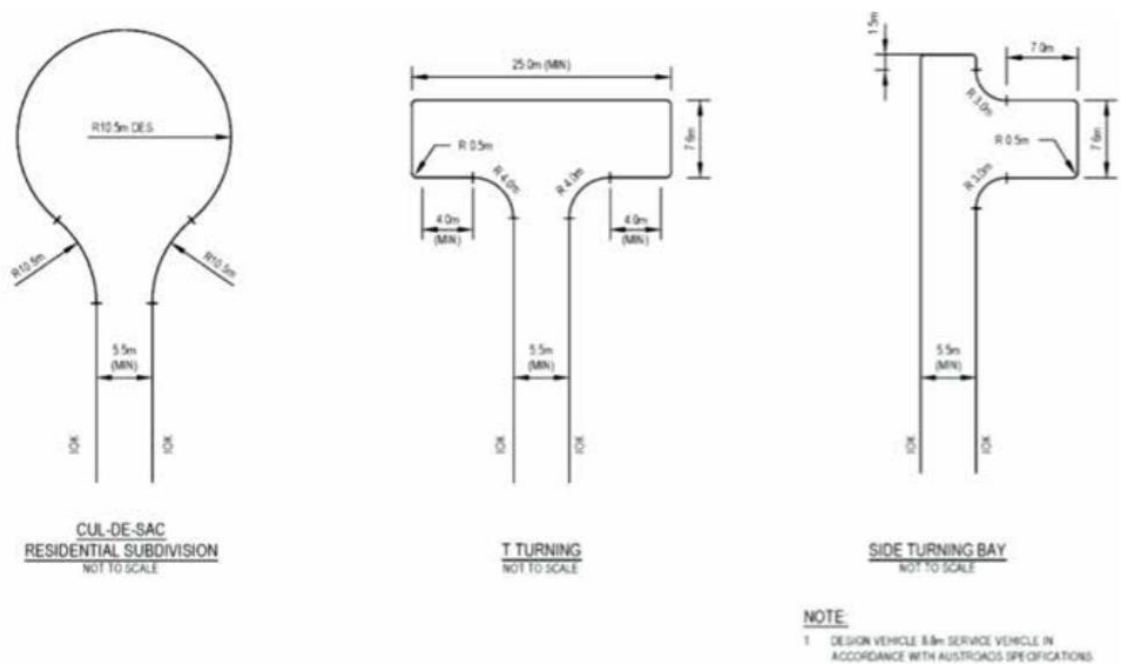


Figure 6. Correct placement for bins in 't-heads' and court bowls.



Under normal circumstances collections are scheduled to occur between 6am and 6pm on weekdays, these collection times may be altered on the advice and approval of the authorised Council officer, clear access should be provided at all times.

## Hard Waste collections

Hard Waste collections in Cardinia Shire are an at-call service, able to be booked at a time suitable to the rate payer. Each premises is entitled to two x 2m<sup>3</sup> collections per year included as part of the general garbage charge, a component of the annual rates notice. For multi-unit developments a minimum provision of 2m<sup>2</sup> must be provided for every 3 dwellings. This must be shown on the waste management plan.

### Collections within property boundary

Collections from within property boundaries need to accommodate forward and one directional collections, have adequate space for bin storage, as well as collection points. Where required, turning circles need to be sufficiently sized to accommodate waste service vehicles and allow for a margin of driver error (see Figure 3 above). All pavements (internal roads) intended to carry the garbage truck should be designed and constructed for a design life of 20 years for 15 tonne vehicles. Access needs to be provided at all times, without obstructions from parked cars, overhanging's, letter boxes, trailers, delivered goods, or any other obstructions. Designated turning areas should be clearly marked and be accessible to the waste collection vehicles during collection week between 6:00am – 6:00pm each day. Appropriate 'no standing' signage should be installed on-site to clearly indicate this requirement.

A Waste Management Plan will be assessed for approval by the Waste Services Team when a planning permit is issued. A permit condition may require alterations to be made to the Waste Management Plan if not satisfactory. Additionally, a condition will require that the permit holder enter into a Section 173 Agreement to enforce the Waste Management Plan prior to a certificate of occupancy being issued. The Section 173 Agreement entered into with Council will clearly inform future occupants of the development of their waste management requirements. The Section 173 Agreement will require the Waste Management Plan to be made part of any lease agreement.

Additionally, where appropriate, a deed poll may need to be signed providing indemnity to enter the development for waste collections prior to occupation.

Council requires at least **six weeks to approve and sign the Section 173 Agreement.**



## Using Waste Services in Multi-Occupancy Developments

To ensure good waste behaviours, including minimal contamination and timely bin placement and return, it is highly recommended that each property has their own bin, with storage within their own property boundary. This eliminates a variety of issues that can occur with communal bin areas such as:

- Dumping
- Damage and vandalism caused to bins
- Contamination within bins

The responsible entity for common property (usually Owners Corporation), is responsible for any of these issues including financial costs and implications of rectification.

### Communal waste storage areas

If it is not considered practical for individual bins, communal bin areas will be considered. The waste storage area must:

- be of adequate size for storage of the required number of bins, manoeuvring of bins, cleaning storage area and undertaking maintenance and servicing requirements
- be clear of other services associated with the development so as to not block access (e.g. electrical meter boards, gas meters, conduits or firefighting equipment)
- be screened from the street, secure and provide protection against vandalism and illegal dumping.
- be well lit to allow use after dark.
- be well ventilated
- be located to allow convenient and easy access to residents (no more than 40m from dwelling)
- storage area should not exceed 40m from the collection point
- be easy to clean with access to water and drainage to the sewer
- be within reaching distance of any on-site firefighting equipment, e.g. emergency hose or extinguishers
- clear signage of correct use of bins, including appropriate separation of waste streams and colouring that complies with council standards (red for garbage, yellow for commingled recycling, bright green for food and garden waste and purple for separated glass). The signage should include contact details of the responsible entity to report any issues.

## Planning process

An application for three or more dwellings must be accompanied, in addition to usual requirements with the following:

- 1) Waste management plan (utilising Councils template)
- 2) Maps of sufficient size (to scale 1:100 and/or 1:200) showing:
  - a) Adequate access and turning circles for Councils Waste Vehicles to AustRoads standards 8.8m service vehicle (waste vehicle length up to 10.8m)
  - b) Location, type, size and number of dwellings proposed at the site, including the number of bedrooms within each dwelling
  - c) Location of waste and recycling for storage and collection (specifying number and size of bins)
  - d) Collection hazards on street, e.g. traffic slow point device, or nearby intersections
  - e) Gradients of the development and/or street
  - f) Sight distance requirements
  - g) Existing or proposed parking bays (both within property and/or on street)
  - h) Existing or proposed parking signage (both within property and/or on street)
  - i) Any other existing or proposed feature(s) or hazard(s) that has or will have the potential to affect waste & recycling collections in any way, whether within the property, on the nature strip or the roadway.
  - j) Designated hard waste collection area of a minimum of 2m<sup>2</sup> per three dwellings

Where collections are within private developments, maps and/or plan must also include locations of the following:

- Vehicular access to the bin collection points and a turning template for the waste collection vehicles, where required
- Trees (to edge of canopy)
- Poles
- Buildings
- Fences
- Letter boxes
- Width of access roads, including how it accommodates the waste vehicles and passing points for other drivers within the development.
- Dimensions of vehicle crossings and entry points showing road design, and how it accommodates waste vehicles. Provisions should be made to prevent obstructions of access road during waste collection time.