

WASTE AND RECYCLING BIN ALLOCATION, STORAGE AND COLLECTION GUIDANCE

NEW DEVELOPMENTS AND CONVERSIONS

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1. Waste and Recycling service

This guide is for architects and other people involved in designing developments in Watford to ensure that they enable waste and recycling to be stored and collected safely. All premises must have adequate provision to store waste and recycling.

The waste collection service is delivered by the council's partner Veolia. All residential developments are entitled to waste and recycling collections provided they meet the requirements as set out in this guide.

Developers are required to let the council know if they are not going to use the council's waste provider for the collection of waste and recycling.

2. Bin allocation and collection frequency

Table 1

	Non-recyclable waste	Recycling	Food waste	Chargeable garden waste (optional)
Collection frequency	Fortnightly	Weekly	Weekly	Fortnightly
House	140 litre black wheelie bin	240 litre blue-lidded wheelie bin	23 litre bin	240 litre green wheelie bin (optional)
Flats 1-5 or Flats 4/5	140 litre wheelie bin per flat 1 x 660 litre bin	240 litre blue-lidded wheelie bin per flat 1 x 1100 litre bin	23 litre bin per flat	240 litre green wheelie bin per flat (optional)
Flats 6-10	1 x 1100 litre bin	1 x 1100 litre bin	1 x 140 litre bin	*1 x 240 litre bin
Flats 11-17	2 x 1100 litre bin	2 x 1100 litre bin	2 x 140 litre bin	*2 x 240 litre bin
Flats 18-24	3 x 1100 litre bin	3 x 1100 litre bin	3 x 140 litre bin	*3 x 240 litre bin
Flats 25-31	4 x 1100 litre bin	4 x 1100 litre bin	4 x 140 litre bin	*4 x 240 litre bin
Flats 32+	Follow same pattern above allowing 140 litres per flat	Follow same pattern above allowing 140 litres per flat	Follow same pattern as above allowing 23 litres per flat	*Follow same pattern as above allowing 23 litres per flat
HMO	See section 4.3	See section 4.3	See section 4.3	N/a

*Chargeable garden waste bins can be provided where communal properties have a garden. This optional, paid for service would be dependent on the managing agent/site manager's preference and can be rolled out after the development has been completed if required.

2.1 Purchase and delivery of waste bins

Developers must contact Veolia to arrange the purchase and delivery of waste bins giving at least one month's notice prior to the occupation of the property. Only bins supplied by Watford Borough Council will be emptied. Contact details for the managing agent of the development must also be provided.

Please visit www.watford.gov.uk/newdevelopmentsbins for current prices.

Only bins containing the correct waste will be emptied.

3. Container types and dimensions

The table below sets out the dimensions of various bin types to allow for sufficient bin storage to be planned for,

Table 2

Bin Type	Capacity (litres)	Height (cm)	Width (cm)	Depth (cm)
23 litre food bin	23	40	32	40
140 litre wheelie bin	140	95	50	55.5
240 litre wheelie bin	240	110	58	74
660 litre wheelie bin	660	132	126.5	74
1100 litre wheelie bin WASTE	1100	138	127	100
1100 litre wheelie RECYCLING	1100	133	137	107.5

4. Bins and storage

4.1 Houses

Bins

All houses should use Watford Borough Council issued wheelie bins as per table 1. For new houses the developer should contact Veolia on 0203 567 6900 to arrange payment and delivery of bins, please check www.watford.gov.uk/newdevelopmentsbin for prices.

Storage

All bins must be stored within the property boundary. Householders are required to put their bins at the front boundary of the property by 6am on the day of collection and are not permitted to store bins permanently on the highway, therefore consideration should be given to the provision of an area where bins can be put out for collection without restricting

access to the property or obstructing the public highway. Bins must be accessible to crews directly from the kerbside, without pulling distances.

4.2 Houses converted to flats

The preferred option is individual bin allocation please refer to Table 1 'Flats 1-5' for numbers of bins required. Refer to 'Houses' section for service details and storage requirements.

4.3 House of Multiple Occupation (HMO's)

Bin provision will be based on how many residents are in each unit, but are based on 100 litre capacity per unit for both waste and recycling.

Waste	
Bedrooms/Units	Bins
2	1 x 240 litre
3	2 x 240 litre
4	2 x 240 litre
5	2 x 240 litre
6 - 7	1 x 660 litre
8 – 12	1 x 1100 litre
13 – 14	2 x 660 litre
15 - 23	2 x 1100
Recycling	
Bedrooms/Units	Bins
2 to 3	1 x 240 litre
4	2 x 240 litre
5 - 6	2 x 240 litre
7 - 14	1 x 1100 litre
15 - 23	2 x 1100 litres
Food	
Bedrooms/Units	Bins
2	2 x 23 litre
3 - 12	1 x 140 litre
13 -23	2 x 140 litre

Flats 1-5

For small scale developments of flats up to and including 5 flats, single bin provision will apply, or, for 4-5 flats the option of a 660 litre wheelie bin for waste and a 1100 litre bin for recycling. Please refer to 'Houses' section for service details and storage requirements.

4.4 Flats 6 or more

Bins

Developers should use the calculations provided in Table 1 to work out the correct capacity required for the development. All developments must ensure that residents have access to waste, recycling and food bins. Garden waste is optional, but if this service is required these bins should also be factored into the design. The calculations for recycling and waste are based on an allocation of 140 litres each per flat and at least 23 litres per flat for food waste.

Large properties may require additional waste services over and above this allowance. In this circumstance landlord/managing agent/site manager must do one of the following:

- Arrange for the removal of the waste themselves. They will need a waste carriers licence to do this
- Pay a company to collect and dispose of the waste. This must be a registered waste carrier

Storage

All developments of purpose built flats must provide a dedicated storage for the required number of bins for all waste streams.

- All enclosures and storage areas should be located within the boundary of the development and be easily accessible to residents and for collections.
- Sufficient clearance provided to allow full opening of a container lid.
- 300mm clear space between and around containers, each bin to be accessible and manoeuvrable.
- Minimum working headroom of at least 2 m (where bin store is covered)
- Secure the bin store using key pad access system or similar locking device. To prevent access from non-residents and discourage dumping of large household items.
- There should be a minimum clearance of 500mm width through any doorway over and above the bin size.
- Consideration should be made for the provision of “Keep Clear” markings in front of bin stores and at the designated vehicle access/loading point to ensure accessibility for collections.
- Clear flat access without steps and other obstacles should be provided between the bin stores and the nearest point of access for the collection vehicle.
- Installation of a dropped kerb where necessary to allow safe manoeuvre of bins.
- Where it is necessary for the collection crew to move bins from the bin storage areas to tip they should not have to move the container more than 10m.
- An area for signage showing residents how to separate their waste should be clearly displayed.
- Adequate lighting in the bin store area.

- For developments with several bin stores, bin stores should be clearly labelled with which flats each bin store serves.
- For large developments please include all details of how the bins will be managed in a Site Management Plan

5. Collection access

- Waste collection will not commence until road surfaces are complete to base layer and access is unhindered by ongoing construction work.
- Roads and parking areas should be laid out to ensure unblocked access for the collection vehicles and crew.
- Collection vehicles must not need to reverse into or from the highway for collection.
- Sufficient turning circles on site if manoeuvring onsite is required (requires vehicle tracking on site plans). See Appendix 1.
- Pathways adjacent to bin stores of sufficient width to fully accommodate and manoeuvre the bins.
- Bins should be on ground level for collection.
- Our waste contractor is unable to operate timed collections.

Slopes should be avoided, please consider this in respect to bin storage in underground car parks.

6. Alternative Waste Management Options

Generation of waste from new large scale developments will have an impact on local environment and will place additional burden on collection, treatment and disposal infrastructure in Watford and Hertfordshire.

Watford Borough Council will expect to see a detailed plan/strategy all new large scale sites explaining how household and commercial waste will be managed across the whole development.

For larger developments and particularly those comprising buildings of several storeys Watford Borough Council strongly recommends that alternative waste technologies are investigated. The use of such technologies can significantly reduce the space required for traditional methods of on-site storage, which for large numbers of properties could impact on land set aside for car parking and commercial units. New technologies can help to minimise noise, disruption and can help new developments achieve a higher environmental standard.

There are a number of existing and proposed technology options for managing and treating waste on site. Developers are encouraged to ensure that all appropriate options have been investigated and should consider the potential of trial projects as a means of attracting external funding to assist with initial capital costs.

OLYMPUS - 6x2RS Narrow - Smooth Body RCV

Elite 6 - 6x2RS Narrow Track

Euro 6 SPECIFICATIONS



Vehicle model	New variant for Euro 6	
	OL-16N 6x2RS	OL-19N 6x2RS
Compaction body type - effective volume(s)	Olympus 16N (16.7 m ³)	Olympus 19N (18.7 m ³)
Elite chassis type	6x2RS (Rear Steer) Narrow Track	
GVW (Gross Vehicle Weight)	26000	
Front axle plated weight	8000 (7100*)	
Rear axle/bogie plated weight	19000	
Recycling box type	-	
Recycling box type (capacity m ³)	-	
V1 Overall wheelbase	4800	5250
Turning circle - overall (metres)	16.2***	17.7***
Vehicle unladen weight**	13130	13280
V2 Overall length [§]	8750	9190
Overall length - tailgate raised [§]	9830	10270
V3 Front axle to front of compaction body	650	
V4 Front overhang	1665	
Front overhang - cab tilted	3465	
V5 Rear overhang	2285	
Rear overhang - tailgate raised	3145	
V6 Overall height	3450	
Overall height - tailgate raised	5100	
V7 Height at exhaust tip - nominal	3500	
V8 Cab roof height	3130	
Cab roof height - cab tilted	3690	
V9 Cab floor height	825 Driver side, 885 Passenger side	
V10 First cab step height from ground	495	
V11 Rave rail height	1050	
V12 Ground clearance at lowest part of vehicle	250	
V13 Ground clearance - tailgate	410	
V14 Approach angle	15.5°	
V15 Departure angle	16°	

(*) Optional front axle plated weight of 7100 kg with 295/80R22.5 tyres.

(**) Typical rear mounted lifting device equipment will add up to 1200 kg.

(***) Turning circle shown is for worst case, fitment of optional tyres may reduce turning circle.

(§) Excludes front view mirror which adds approx. 230 mm

NOTE: Unless otherwise stated, all dimensions are nominal, in mm and represent an unladen vehicle without a lifting device and fitted with standard tyres; tyre deflection is not included. All specifications are subject to manufacturers tolerances. An allowance of +/- 2% should be made for all weights. All weights are in kgs and include oil and water, and on diesel fuelled vehicles, AdBlue and 50 litres of fuel. Additional equipment may alter dimensions and weights quoted.

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