

# Refuse and Recycling

## Advice note For Developers

September 2015

### Contents

- 1.0 Refuse and recycling planning guidance background
  - 1.1 Introduction
  - 2.0 Planning and design
    - 2.1 Good Practice
    - 2.2 Internal storage facilities for waste prior to collection
    - 2.3 External storage/collection methods
  - 3.0 Shropshire Waste and Recycling Services
    - 3.1 Domestic waste and recycling collections
    - 3.2 Capacity requirements for households
    - 3.3 Container dimensions
      - 3.4 Houses
      - 3.5 Flats and Apartments
      - 3.6 Mixed use developments
    - 3.8 Bulky Waste
    - 3.9 Other
- 4.0 Collection Specification
  - 4.1 Summary
  - 4.2 Vehicle Specifications
- 5.0 Contacts

## 1.0 Refuse and recycling planning guidance background

This advice note has been prepared to assist developers and applicants by highlighting Shropshire Council's current management of refuse and recycling collections and what provisions will be expected when proposals for new dwellings come forward in the future.

### 1.1 Introduction

Shropshire Council is committed to reducing the amount of waste sent to landfill and to maximise reuse and recycling: To this end we offer a collection of domestic waste, garden waste and recycling service to all households within the county with a wide range of recyclable materials collected. To ensure that we meet the objectives outlined above it is vital that new buildings are designed to provide facilities that ensure waste can be managed efficiently and effectively, for segregation of recycling, and to be stored and collected in such a way that is suitable to all parties involved.

This guidance has been developed by the Councils Waste Management department in consultation with Planning Services and other relevant departments to assist developers in relation to:

- Single houses or developments of 2 or more houses
- Facilities within individual or groups of properties or premises for the separation and storage of waste for collection and for composting

The Council's refuse and recycling service is reviewed on a regular basis and applicants/agents are advised to contact Shropshire Council's Waste Management Unit to ascertain that the details outlined within this document are still applicable at the time.

## 2.0 Planning and Design

This guidance should be referred to from the earliest stages of building design. The provision of an effective and efficient refuse/recycling service is a key Council operation, and it is essential that the needs of this service are considered at the earliest design stage for all new residential developments. All new developments shall be designed so that waste and recycling issues are fully taken into account of as part of the pre-planning application process. Adequate storage areas for waste management facilities and good access for collection crews and vehicles can be difficult to retrofit at later stages in the design process.

Applications for new developments should be accompanied by a concise waste management report that addresses relevant aspects of this guidance. A report of this nature will enable this element of the development to be dealt with in a comprehensive and efficient way, and it need not be particularly lengthy or expensive to prepare. The report should clearly set out the measures proposed to be taken to ensure waste reduction and recycling provision within the new development and must include a vehicle tracking plan. Relevant officers will be happy to discuss the contents and format of the report at the pre-application stage.

## 2.1 Good Practice

There are a number of factors which need to be taken into consideration when designing refuse and recycling storage facilities for flats/apartments, and housing developments to ensure efficient collection by the collection vehicles/operatives and as a means of encouraging use by residents.

Adhering to methods of good practice and following guidelines laid out in this document will help to achieve both of these things.

Forward planning with regard to refuse and recycling storage and collection will provide benefits to developers, residents and the Council. Developers able to disguise and screen bin areas make developments more attractive to potential buyers. For flats and apartments ensure Residents are provided with a secure bin areas for communal use which decreases the risk of contamination and vandalism allowing a more effective collection operation.

In all situations refuse and recycling materials collection facilities shall be protected from the weather, where possible to encourage occupants to recycle their waste.

## 2.2 Internal storage facilities for recycling prior to collection.

In built storage within the kitchen or utility room should be designed into each property/unit as an integral part of the built form of the development proposals, to allow the segregation of recycling at the earliest opportunity. This will allow temporary storage of waste and recycling until it can be transferred to external containers.

### 3.0 Shropshire Council's Waste and Recycling Service Specification

#### Domestic waste and recycling collections

Please note that for most properties all collections take place on the same day of the week, but for different materials a find out the collection day for a property or street, go to our website homepage – waste collection day finder or contact Shropshire Council's Customer Service Centre on 0345 678 9007.

Shropshire Council's current household collection scheme is based on the provision of wheeled bins for residual waste and garden waste, and a set of 3 boxes for recycling, all of which are carried out on a fortnightly basis as per the collection calendars.

Collection normally occurs from the edge of the property (curtilage) or such other collection point as has been agreed with the council, developer and resident. In the case of shared units with communal wheeled bins the collection occurs from the designated bin store or storage area.

Residual collection – the standard container is 240ltr wheeled bin (black) or 360ltrs where there are 6 or more people permanently resident at a property.

Recycling collection –

T

The standard recycling containers are 3 x 55 litre black

Boxes	1 for paper
	1 for glass bottles and jars
	1 for the plastic bottles, tubs, trays food and drink cans

Food Collections are available in certain areas – Residents will be advised, (the information is included with the collection calendar. )

Garden Waste Collection – All properties are entitled to 1 x 240 litre garden waste wheel bin Shropshire Council also offers residents the option of paying an annual charge for an additional 240 litre garden waste wheelbin.

Communal recycling and refuse containers - Where developers opt for traditional bin stores waste collection is usually from 1100ltr containers.

Please refer to the specific guidance in section 3.2 and 3.5 regarding communal collections

### 3.2 Capacity and storage requirements

The Council requires that all residential developments incorporate a minimum of the capacities for external storage for refuse and recycling.

Storage must also be sufficient to allow for the storage of additional recycling materials that Shropshire Council may collect in the future. Provision for compost bins in gardens should also be considered.

Any storage areas should be sensitively located and designed to fit in with the local environment new and existing developments should take into account the visual impact of the bins and their enclosures.

They should also include adequate ventilation to prevent the smells.

### 3.2 Capacity requirements for households

Number of properties	Number of containers required for refuse	Number of containers required for recycling
Individual houses	1 x 240 litre bin or where 6 or more people are resident 1 x 360 litre wheeled bin	1 x 240 Garden Waste 1 x 55 recycling box for the following Cans, plastic bottles, tubs & trays. 1 x 55 litre box for glass bottles and jars 1 x 55 litre box for newspapers, magazines and junk mail
Communal Bin Store servicing 1-5 properties	1 x 1100 litre bins	1 x 1100 litre bin
Communal Bin Store servicing 6-10 properties	2 x 1100 litre bins	2 x 1100 litre bins

1 Communal Bin Store servicing 11-15 properties	3 x 1100 litre bins	3 x 1100 litre bins
Communal Bin Store servicing 16-20 properties	4 x 1100 litre bins	4 x 1100 litre bins

### 3.3 Container dimensions

Container	Dimensions (mm)	Min floor space required
140 litre wheeled bin	Width – 560 Depth – 558 Height – 1054	570 x 570
240 litre wheeled bin	Width – 720 Depth – 734 Height – 1063	730 x 750
360 litre wheeled bin	Width 760 Depth 880 Height 1100	770 x 900
660 litre wheeled bin (	Width 1000 Depth 800 Height 1000	1200 x 1200

1100 litre wheeled bin	Width – 1375 Depth – 1000 Height – 1470 Height with lid open - 2470	1575 x 1300
1280 litre	Width – 1500 Depth – 1000 Height – 1470 Height with lid open - 2470	1700 x 1200

### 3.4 Domestic properties - Houses

The containers required must all be stored within the boundary of the property and the storage space must bear relation to the size of the property.

Householders are expected to present their waste and recycling at the kerbside for collection on the scheduled day and any containers returned to the property as soon as possible but no later than the end of the collection day. Containers should therefore be stored at the property in a position that is convenient for the householder to present them at the kerbside for collection and located away from windows and ventilators to avoid any nuisance odours entering the premises. To minimise noise disturbance and visual intrusion containers should be located 6 metres from buildings/windows.

Storage areas should also be accessible to the crews in order to accommodate any assistance required in presenting the waste which may be required by the future owners.

For homes with front gardens where no rear access is proposed, well designed refuse and recycling storage facilities should be provided in covered areas capable of accommodating the bin requirement at time of construction, with the facility to completely lift the bin lid in situ and permitting the separate collection of recyclable materials

### 3.5 Domestic Properties - Flats and Apartments

Containers should be stored in a designated external storage area which has been sensitively located and designed to provide easily accessible and

mutually convenient waste storage for the occupants and the collection crew (see section 4.0)

Doorways should provide at least 1.3m clearance (including thickness of doors). A walkway of at least 1.3m should also be provided within the store the store without the need to move any other container.

It is the responsibility of the caretaker/management company (or similar) to allow access to individual containers, enabling each to be removed from to allow the collection crews access to the container stores/collection point on collection day and to ensure that access is not restricted, for example by parked cars. And if bin store is fitted with locks then four sets of keys or fobs (and replacement sets as required) must be supplied to Shropshire Council's Waste Management contractor Veolia at no cost.

Within storage facilities, a minimum clearance of 150mm is required around all sides of the bins, and these should be placed side by side so residents are not inconvenienced accessing other bins. The entrance doors should have a minimum height of 1.8m to allow ease of access for both residents and operatives. And a minimum of 2.5 metres from floor to ceiling to ensure the lids on all containers can be opened fully.

The location of bin storage should take account of risk from fire and the impact of smells in relation to adjoining residential properties. To minimise noise disturbance and visual intrusion containers should be located 6 metres from buildings/windows

Where communal bins are proposed it is essential that any bin store is located immediately adjoining the road the RCV will have access to, and not within communal parking areas (unless these are adopted and can provide the necessary turning circle). Where flats are proposed, a communal recycling facility should be provided at a convenient location for both residents and collection operatives.

Collection points should be sited clear of any road and pavement/cycleway, and should be hard surfaced in a material that compliments the surrounding built environment. They should be of a size that will be capable of accommodating the required number of bins/recycling boxes so there is no overflow onto the public right of way. For dwellings adjoining the RCV

route collection points should be sited at the edge of the residential curtilage.

### 3.6 Mixed Use Developments

Mixed use developments should have separate stores for refuse and recycling containers for the commercial aspects and residential aspects of a development respectively.

**No mixing of commercial waste and residential waste is permitted.**

### 3.7 Other

Consideration should be given to composting facilities within new developments (including the communal gardens space in multi-occupation premises) as treatment of waste at source is recognised as the most sustainable method of treatment. Gardens should, where possible, be laid out so that sufficient space is allowed for home composting.

The collection of recyclable and compostable materials is an evolving service, and developers should contact the Council's and Waste Management Unit for specific advice on current recycling collection arrangements.

## 4.0 Collection requirements

### 4.1 Summary:

- Residents should not have to pull/push bins or carry waste for more than 25 metres
- Collection crews should not have to push/pull 2 wheeled containers or carry individual waste containers more than 15 metres
- Collection crews should not have to push/pull 4 wheeled containers more than 10 metres
- A safe stopping bay or equivalent should be provided with sufficient turning area and manoeuvring space for the collection vehicle. (This will be as standard in general planning guidance for our vehicles)
- Recycling bins should be located with refuse bins

- Collection vehicles cannot collect containers that are on a slope. The gradient of a slope that containers need to be moved over must not exceed 1:12.
- Surfaces that containers need to move over shall be of a smooth continuous finish and free from steps or other obstacles. Any steps shall incorporate a drop-kerb.
- Space allocated for bin storage should not have bins stored more than one deep and should provide ample room for rotating the bins
- Overhead service cables, pipes, archways and other potential obstacles must be at least 7m from ground level.
- Collection vehicles should not reverse into developments from a major road, or reverse onto a major road when exiting the development.

Collection operations should take all appropriate steps to design out manual handling and the requirement for vehicle reversing when designing collection operations. The British Standard guidance document BS5905:2005 states that the distance collectors should have to cover in respect of transporting waste containers to and from the collection vehicle should be minimized to achieve an economical service. The collector should not be required to carry individual waste containers or move two wheeled containers for a distance of more than 15 metres, nor to manoeuvre four wheeled waste storage containers from the storage points to the collection vehicle for a distance of more than 10 metres.

Where bulk containers are used, direct vehicular access to the containers is necessary. The collectors should not be required to move wheeled waste storage containers over surfaces that may hinder the smooth passage of the container. An adjacent storage area designed to not block the pavement should be provided where a large number of households use the same collection point.

These health and safety requirements must be incorporated into the scheme from the earliest design stage.

#### 4.2 Vehicle Specifications

The proposed layouts of larger scale developments should include a vehicle tracking plan indicating satisfactory vehicle manoeuvrability within the site to be developed, and demonstrate that it has been

designed to include an efficient refuse/recycling collection 'round', based upon the operating standards and vehicle dimensions.

The vehicles used are:

### **ECONIC 32 and 26 tonnes**

The tracking plan will need to be agreed with the Council's Waste Management Department as collection authority and the Council contractor is Veolia. An example of a tracking plan is shown below.

The 'round' should be designed to allow the refuse collection (RCV) vehicle to operate in a forward gear only wherever possible; adequate turning facilities, large enough to accommodate the refuse collection vehicle, will be required where the RCV is unable to drive a circuitous route. Where the RCV will not be expected to have direct access, provision of collection points must be shown; designated collection points must be agreed with the Council's Operations and Waste Management as part of the scheme design before an application is submitted.

To allow safe access, all roads, and other areas, that are to be used by the RCV must be designed to withstand the full weight of the vehicle, which is 32 tonnes. Should there be a need to access courtyard areas then a vertical clearance of 4.50 metres will be required. Consideration must be made with regard to tree overhang, cables, balconies, barriers, and archways etc.

The width of any road where the RCV is expected to access will need to be a minimum of 5 metres, this will allow single side parking and the RCV to pass without hindrance. Consideration must be given at the initial design stage for the provision of adequate off street parking in safe and convenient locations for residents to minimise parking within the street. Where Developments that are designed to have on street parking on both sides of a road, the minimum road width would need to be 8 metres.

The Council's RCV will only travel along roads that have been constructed to Shropshire Council's adoptable standards.

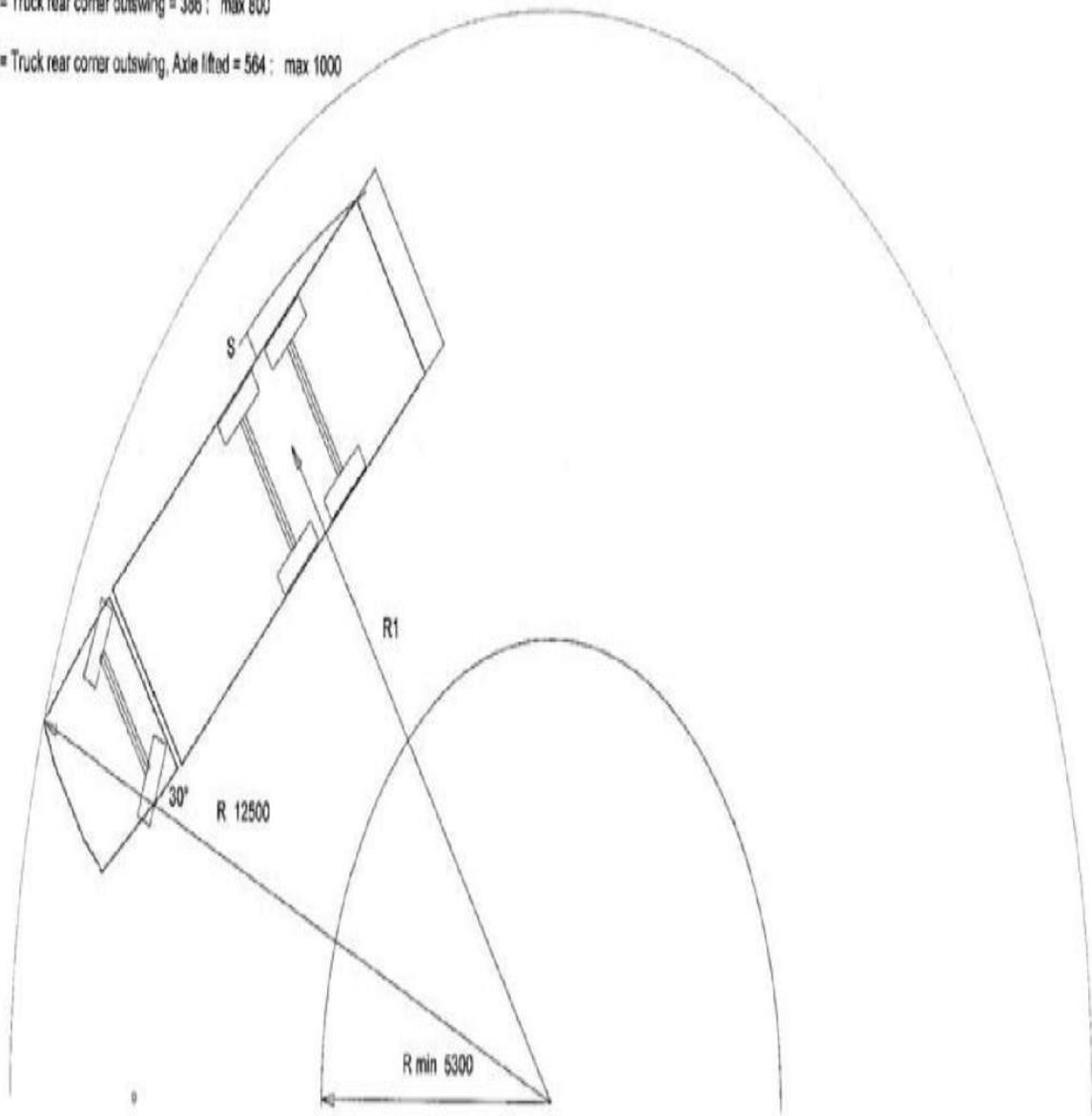
[Example vehicle tracking plan.](#)



Orange lines indicate vehicle route.

S = Truck rear corner outswing = 386 ; max 800

S = Truck rear corner outswing, Axle lifted = 564 ; max 1000



DENNIS ELITE 2 6x4 -Euro4- 5800 Wide Track + DENNIS Phoenix 2 - W23 (24.07 cu. mtr Wide)

Example of Vehicle turning specification

## 5.0 Contacts

Operations and Waste Management – for information on collections and vehicle data, email [waste.management@shropshire.gov.uk](mailto:waste.management@shropshire.gov.uk)

Planning Services – for developer enquiries and pre-application advice on waste management.

Email [waste.management@shropshire.gov.uk](mailto:waste.management@shropshire.gov.uk)

## 6.0 Vehicle Details

# ECONIC

BLUETEC EEV

NGT

Rigid 4x2/6x2/6x4/8x4

NGT tractor - 4x2

Low Entry Crew Cab

Special Application Chassis

1824LL

1829LL

1828LLSG

1828LLG

2628LLG



High-roof



Low-roof



Mercedes-Benz

## Dimensions (mm)

	Double Drive 6x4	Mid Steer 8x4
A Wheelbase (first to second axle)*	4200	5100
A+ 1350mm (outer axle spread)	5550	6450
B Front overhang	1850	1850
C Rear overhang	1200	1200
D Overall length	8600	9500
E Frame height at rear axle	960	960
F Frame depth	284	284
G Back of exhaust pipe or air stack to end of frame	6250	7150
H Bumper to back of cab	2032	2032
I Back of cab to centre line of front axle	182	182
J Overall height (nominal not inc sunroof) – unladen	2925	2925
K Ground clearance front	290	290
L Width over cab	2490	2490
M Ground clearance rear	270	270
N Frame width (at rear)	760	760
O Bogie spread	1350	1350
P First step height from ground	565	565
R Cab floor height from ground	910	910
S Centre line of front axle to rear of exhaust	500	500

pipe or air stack		
Turning circle (wall to wall) - Tolerance +0.5m, -0.0m	20.0	22.5
Minimum cab gap (to rear of exhaust pipe)	50	50
Wight of Vehicle	26t	32t
Vehicle Use	Kerbside Recycling Collection Vehicle	Domestic Waste /Garden Waste Collection Vehicle

