

Refuse & Waste Calculation Table - Hillingdon Council Guidance

Blyth Road, Hayes

Hillingdon Council Refuse Guidance; Received 12th May 2014.

2) Flats

The key step for installing waste and recycling bins are described below: -

2.1) Calculate the Volume of Waste Generated

The table below can be used to calculate the total volume of all waste and recycling generated in a week.

Table 1: Estimated Waste and Recycling Generated

Size of household	Number in development	Projected Weekly Waste per household	Waste produced from all households
Studio / one bedroom	A	100 litres	A x 100 = W litres
Two bedroom	B	170 litres	B x 170 = X litres
Three bedroom	C	240 litres	C x 240 = Y litres
Total Weekly Waste Arising			W+X+Y = Z litres

BLOCK A

Size of household	Number in 'block'	Proj. weekly waste	Waste produced from all households
One bedroom	2	100	200
Two Bedroom	8	170	1360
Three Bedroom	4	240	960

Unit Check 14 Total weekly waste arising - 2520 Litres

Number of bulk bins required = $\frac{(Z) \text{ litres (from Table 1)}}{1,100 \text{ litres (volume of bulk bin)}}$

The above is a minimum figure.

When a new development becomes occupied they are given all refuse bins to start with, as contamination of recycling bins is a problem. After a few months some of the refuse bins are exchanged for recycling bins or additional bins are added.

BLOCK A

$\frac{2520}{1100} = 2.2$ * Therefore a minimum of 3 No. Eurobins
 ‡ under Hillingdon Guidance

Summary Statement:

In order to achieve Code 4 Compliance / credit - the most onerous of the two calculations (BS 5906:2005 and Local Authority Requirements) must be adopted.

Having conducted the requirements for both methods, there is no difference in the calculated requirements for each block.

However, as per the below, where it is calculated that three Eurobins are required, it may be accepted that an equal split of volumes resulting in two Eurobins for each remaining waste portion (50 / 50) could be such that a 33 / 66 proportion be adopted, still requiring only three Eurobins for Blocks A & B. Doing so would allow for the fourth Eurobin to be used for the fortnightly collection of compostable waste.

Robert Williams feedback memorandum email to Charlotte Bath 12.5.14

1100 eurobins (1370x 990 x 1260)

150mm clearance between bin and wall

Bin Size	Height	Depth	Width
1,100 litre Eurobin	1,370 mm	990 mm	1,260 mm

Size of household	Number in development	Projected Weekly Waste & Recycling per household	Waste & Recycling produced from all households
Assume Two bedroom properties	120	170 litres	20,400 litres
Total Weekly Waste Arising			20,400 litres

divided by 1100 equals 18no eurobins

BLOCK B

Size of household	Number in 'block'	Proj. weekly waste	Waste produced from all households
One bedroom	3	100	300
Two Bedroom	13	170	2210
Three Bedroom	2	240	480

Unit Check 18 Total weekly waste arising - 2990 Litres

Total waste calculated by JSA is 16,410 litres
Equates to 14.9 (15no) urobins
Equates to 14.9 (15no) Eurobins

BLOCK C

Size of household	Number in 'block'	Proj. weekly waste	Waste produced from all households
One bedroom	60	100	6000
Two Bedroom	26	170	4420
Three Bedroom	2	240	480

Unit Check 88 Total weekly waste arising - 10900 Litres

3990 litres less than Robert Williams calculated

BLOCK C

$\frac{10900}{1100} = 9.9$ * Therefore a minimum of 10 No. Eurobins
 ‡ under Hillingdon Guidance

Equates to 14.8 (15no) Eurobins

The layout has allowed for up to 22no bins making allowance for composting and recycling and general waste