CITY OF KIRKLAND
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DEPARTMENT OF PUBLIC WORKS
PRE-APPROVED PLANS POLICY

Policy G-9: GARBAGE AND RECYCLING RECEPTACLES AND ENCLOSURES

Kirkland Zoning Code Chapter 115.45 requires all new multifamily, mixed use, and commercial structures to provide adequate and convenient space for the collection, storage, loading, and pickup of garbage, recyclable, and compostable materials. KMC 16.08.012 (F) indicates that adequate space means space for equal capacity of garbage and recycling collection, and space for food and yard waste compost carts. When constructing new garbage and recycling enclosures, the Storage Space Area and Volume Requirements criteria stated below shall be met.

While not required, it is strongly recommended that detachable containers (dumpsters) be used for the collection of both garbage and recyclables.

Discharges from garbage, recycling, and composting containers are prohibited from entering the storm drainage system per KMC 15.52.090 and may be prohibited from entering the sewer system per KMC 15.36.030.

For standard enclosure design plan examples, see CK-G.01. Enclosures shall substantially comply with the referenced plan diagrams, but alternative configurations may be approved by the City when site constraints exist. Waste truck accessibility to enclosures is limited by the turning radius templates shown in CK-G.02.

Storage Space Area Design Standards and Capacity Requirements

(1) The total weekly capacity of all recycling dumpsters and/or carts shall be equal to or greater than the total weekly capacity of the garbage dumpsters and/or carts. Total weekly capacity equals the size of all garbage or recycling containers expressed in cubic yards x number of service days per week.

(2) Each enclosure shall provide space for at least two (2) 64-gallon compost collection carts and cooking oil recycling containers, if applicable.

(3) The minimum required area for the collection and storage of refuse and recyclable materials shall be at least 150% the sum of the dumpster and/or cart footprints to be contained within.

Example 1: A property has a 3-cubic yard (4′ x 6′) garbage dumpster serviced once per week and a 4-cubic yard (5′ 6″ x 6′) recycling dumpster serviced once per week. The enclosure area required is calculated as follows:

(4 x 6) + (5.5 x 6) + (2 x 4.5) = 66 square feet
66 square feet x 150% = 99 square feet minimum required enclosure area

<u>Example 2:</u> A property has a 6-cubic yard (6' x 6') garbage dumpster serviced once per week and six 96 gallon recycling carts serviced twice per week. The required enclosure area is calculated as follows:

(6 x 6) + (6 x 6.3) + (2 x 4.5) = 82.8 square feet
82.8 square feet x 150% = 124.2 square feet minimum required enclosure area

(4) Containers for refuse and recyclable materials shall be located adjacent to one another within the same enclosure.

(5) Enclosures shall be designed to provide adequate, safe, and efficient accessibility for service vehicles. All service vehicle access openings shall be at least 10' 6" wide.

(6) Enclosures shall be equipped with lockable gate doors that open with a minimum 90 degree swing. Any roofed structure over enclosures for stationary dumpsters shall have a vertical clearance of 14'.

(7) Enclosures shall be designed to allow walk-in access without having to open the main enclosure service gate(s).

(8) Enclosures should be convenient for residents and businesses. In general, enclosures should be provided within 200'-300' of each resident/business.

(9) Enclosure areas shall be constructed on a level concrete or suitable equivalent hard-surfaced pad. The grade of the pad shall not exceed three (3) percent.

(10) Enclosure areas shall include a precast wheel stop or other approved barrier.

(11) The enclosure space shall not be used for purposes other than for the storage and collection of refuse and recyclable materials.

(12) Garbage and Recycling Receptacles and Enclosures Serving Commercial Restaurants & Food Services Establishments

All food compactor and garbage enclosure areas should drain to sanitary sewer. The enclosure area should be graded to a drainage structure(s) with a tee-pipe on the outlet pipe with a removable cap, followed by a running trap and cleanout for maintenance and prevent sewer gases from escaping.

- Enclosure areas less than (<) 200 sq ft should be bermed or enclosed to contain spills and leaks and prevent stormwater run-on contamination.
- Enclosure areas more than (>) 200 sq ft should be covered and bermed or enclosed to contain spills and leaks and prevent stormwater run-on contamination. Any roofed structure over enclosures for stationary dumpsters shall have a vertical clearance of at least 14'. Depending on the location of the enclosure area in relation to a building, the covered area may need to be equipped with fire sprinklers (see 2012 IFC 304.3.3 & 304.3.4).

In the absence of sanitary sewer access the area must be covered and drain to a regularly-maintained dead-end sump. The enclosure area should be graded to the

drainage structure(s) with a tee-pipe on the outlet pipe and a removable cap, followed by a running trap and cleanout for maintenance and prevent sewer gases from escaping.

NOTE

Liquid wastes should have secondary containment sufficient to hold a volume of either ten (10) percent of the total enclosed container volume or 110 percent of the volume contained in the largest container.

(13) Multifamily properties utilizing chutes must provide separate garbage and recycling chutes, in addition to space for a food waste compost collection container. Combined diverter chutes are not allowed.

Available Cart Specifications:

	Dimensions (w x d)	Footprint (sq ft)	Cubic Yard Equivalent
20-gal cart	19″ x 24″	3.2 sq ft	.10 cy^3
35-gal cart	19″ x 24″	3.2 sq ft	.17 cy^3
64-gal cart	24″ x 27″	4.5 sq ft	.30 cy^3
96-gal cart	26″ x 35″	6.3 sq ft	.50 cy^3

Available Dumpster Specifications:

	Dimensions (w x d)	Footprint (sq ft)	Configuration
1 cubic yard	6′ x 2′ 5″	14.5 sq ft	Casters or no casters
1.5 cubic yard	6′ x 2′ 6″	15 sq ft	Casters or no casters
2 cubic yard	6′ x 3′	18 sq ft	Casters or no casters
3 cubic yard	6′ x 4′	24 sq ft	Casters or no casters
4 cubic yard	6′ x 5′ 6″	33 sq ft	Casters or no casters
6 cubic yard (flat top)	5′ x 6′	30 sq ft	No casters
6 cubic yard (slant)	6′ x 6′	36 sq ft	No casters
8 cubic yard (flat top)	5′ 6″ x 6′	33 sq ft	No casters
8 cubic yard (slant)	5′ 6″ x 6′	33 sq ft	No casters