




Waste Management Department

**Technical Guidelines No 1.
Waste Storage Requirements for
Municipal Solid Waste**

2015 Revision

Prepared By	Technical Studies Unit	
Reviewed By	Head, Technical Support and Studies Section	
Approved By	Director, Waste Management Department	

Contents

1. INTRODUCTION.....	5
2. OBJECTIVES	5
3. CONTAINERS	5
4. LOCATION OF CONTAINERS	7
5. OPERATIONAL REQUIREMENTS FOR WASTE CONTAINERS	7
6. SAFETY REQUIREMENT FOR WASTE CONTAINERS	8
7. MAINTENANCE OF CONTAINERS	9
8. TERMS AND CONDITIONS OF GARBAGE ROOMS AND WASTE COLLECTION ROOMS DESIGN AND ALLOCATION	9
8.1 Building Regulations concerning Waste	9
8.2 Green Building Regulations.....	10
8.2.1 Storage	10
8.2.2 Collection	10
8.2.3 Recyclable Waste Management Facilities	10

List of Tables

Table 1. Sizing Requirement.....	11
----------------------------------	----

List of Abbreviations

BUA – Built Up Area

TSSS - Technical Support and Studies Section

WMD – Waste Management Department

1. INTRODUCTION

In line of the city of Emirate's aim to improve the quality of life for residents, Waste Management Department is actively pursuing measures to implement proactive rules in providing adequate provision of the collection and storage municipal solid waste generated by different sectors. To achieve this objective, all premises must have adequate storage space to contain waste, including separate storage for recyclable material. The storage space should be sufficient to maximize recycling and to encourage the reuse of materials.

2. OBJECTIVES

- To set requirements for the provision of containers based on the generated waste of different establishments.
- To provide guidance for building designers and developers for proper provision of waste management facilities in new and existing developments.
- To encourage separation of waste at source.
- To encourage recycling and increase the quantity of waste diverted from landfills.

3. CONTAINERS

- Minimum of 2 Containers, one for general waste (non recyclable waste) and one for recyclable waste should be provided. The general waste bin should be colored black and the recyclable bin should be colored green. The sizing of the garbage and recycling rooms should adhere to the Dubai Green Building Regulations and Dubai Buildings Regulation.
- If applicable waste being stored for collection must be placed in refuse sacks and must be deposited in appropriate containers. Accumulation of waste in loose or insecure form is strictly prohibited.
- Waste storage containers must be constructed of durable, watertight materials with a lid or screen on top that prevents access to any

vectors and prevents the spillage of materials during storage and/or transport.

- d) Container should be clearly labeled on at least two sides. For skips, the label must be placed on the surface bearing the hoist hooks used to lift the same. The labels must indicate the name of the service provider, a 24 hour contact telephone number/s (hot line) and a distinct container number. Labels should have a minimum height of **40 cm** and minimum length of **60 cm**. Labels indicating instructions for users must also be placed on the container to prevent the deposit of any hazardous waste into the container.
- e) Control devices of stationary compactors should be properly protected to prevent any unintended or accidental actuation of compaction.
- f) The total number and volume capacity of containers must be sufficient to store the waste to be generated in accordance with Dubai Municipality Building Department Rules and Regulations. If the expected generation exceeds the same, suitable compaction devices should be utilized or the collection frequency may be increased to accommodate the waste generated.
- g) **Putrescible¹ wastes** should be stored in trolley bin, static compactor, wheelie bin or other appropriate containers with covers, while waste classified as **Non putrescible waste, bulky waste** should be stored in open skips or other similar containers appropriate for this type of wastes.
- h) Service Providers that intend to provide waste containers with compaction mechanism should be in possession of at least 2 units of each type / size / volume capacity and compaction ratio.

¹ **Putrescible** – A substance or material, which undergoes decomposition when in contact with air and moisture at ordinary temperatures.

4. LOCATION OF CONTAINERS

- a) Containers should be placed in garbage room or a designated place **within** the building or inside the client / waste generator's premises. However, in instances where a designated location is not available within the premises, efforts should be made not to place the containers in conspicuous locations such as entrances or locations that obstruct traffic flow and pedestrians. In general, inconvenience to the public must be avoided in the placement of containers. Location of Containers shall also comply with the Dubai Municipality-Building Department Rules and Regulations.
- b) Containers in industrial areas must be kept inside the client's premises, to prevent hazard to motorists, pedestrians and the public.

5. OPERATIONAL REQUIREMENTS FOR WASTE CONTAINERS

- a) Containers should be kept tidy at all times.
- b) Containers with lids shall be closed at all times except when depositing waste or removing the contents thereof or when they are placed / staged for collection.
- c) The WMD-TSSS reserves the right to recommend replacement of any damaged or deteriorated container.
- d) Garbage and recycling areas must be enclosed such that they are screened from public view. The enclosure shall be constructed of durable materials, such as wood or masonry, and shall be compatible with the structure or environment to which it is associated.
- e) Gates on the enclosures shall be constructed of metal or other comparable durable material. It shall be painted to match the enclosure, and shall be properly maintained.
- f) Enclosure areas should be constructed on a concrete pad, for longevity and safety of handlers. Gravel, packed dirt and rutted asphalt will not be allowed. Gates should be positioned to swing clear of the enclosure's front width. Gate pins should be installed to hold gates open for integrity and safety.

- g) All areas designated for collection and loading of recyclable materials must provide access for those who deposit recyclables as well as those responsible for collecting and loading the materials. Each garbage and recycling enclosure shall be designed to allow walk in access without having to open the main enclosure service gates.
- h) Storage facilities located in public right of way are required to have permission to relevant authorities for using the area, the facility shall be constructed to complement the design of on-site buildings and structures.

6. SAFETY REQUIREMENT FOR WASTE CONTAINERS

- a) The client shall ensure that no hazardous waste or any other liquid waste (e.g. used oil, sludge etc.) is placed inside the container.
- b) Containers must be utilized in accordance with their specifications.
- c) Wheeled containers should have suitable handles that give workers a safe, two-handed grip when pushing, pulling and maneuvering them.
- d) Trolley bin compactors and skip compactors should not be used to transport containers.
- e) Only containers with a storage capacity of 4.5 cubic meters or less can be moved manually.
- f) Containers with a storage capacity of more than one (1) cubic meter must be equipped with mechanism to prevent the same from moving.
- g) Signages such as no parking sign and reflector strips should be placed in the front side and edges of the containers.

7. MAINTENANCE OF CONTAINERS

- a) Refuse rooms or designated areas for containers and their surroundings on the premises of the waste generator / client should be cleaned at all times to prevent the harbourage of rodents/pests and other scavengers in order to prevent objectionable odours. Cleaning and maintenance of these areas shall be the responsibility of the client / waste generator.
- b) Containers shall, when filthy, leaking, or in a defective state, be cleaned, repaired or replaced by a container of equivalent volume capacity / size. The owner of the container shall be responsible for all repair / replacement.

8. TERMS AND CONDITIONS OF GARBAGE ROOMS AND WASTE COLLECTION ROOMS DESIGN AND ALLOCATION

For the purposes of uniformity Waste Management Department shall adopt the regulations set by the Buildings Department for the proper design and allocation of Waste Collection rooms. Furthermore the Department shall implement the new rules from the Dubai Green Building Regulation that concerns waste management. Enumerated below are the regulations.

8.1 Building Regulations concerning Waste

Buildings, residential complexes, industrial, educational, healthcare, recreational and touristic premises shall be provided with garbage collection room situated within the borders of the relevant plot and inside the boundary wall. A room in the ground floor of the same building may be allocated for such purpose and be used for collecting garbage prior to disposal thereof outside the building. For the complete waste regulations in buildings and developments please consult Buildings Department of Dubai Municipality.

8.2 Green Building Regulations

8.2.1 Storage

All new villas and apartments, domestic kitchens must be provided with a minimum storage facility of two numbers of ten (10) liter waste receptacles clearly labeled for 'recyclable' and 'non-recyclable'. The storage facility should be in a proper place within the kitchen.

8.2.2 Collection

All new buildings which require chute for general waste, in accordance with Dubai Municipality Building Regulation, one of the following must be provided:

- A second chute must be provided to handle recyclable material and discharge into a separate receptacle within the waste management area; or
- The garbage room on each floor must have a minimum floor area of two square meters (2 m²) where recyclable waste can be stored until collected daily by the building operator. Waste must be transported into a designated receptacle within the waste management facility.

All new buildings which does not require chute for general waste, in accordance with Dubai Municipality Building Regulation, the garbage room on each floor must have a minimum floor area of three square meters (3 m²) where non-recyclable and recyclable waste can be stored until collected daily by the building operator. Waste must be into a designated receptacle within the waste management facility.

8.2.3 Recyclable Waste Management Facilities

For all new buildings other than villas, a sorting and storage facility for recyclable materials must be provided. This facility must be easily accessible and comply with the requirements of the location, access and specifications of general waste areas in accordance with Dubai Municipality Building Regulations. The sorting and storage facility

may be part of the general waste management facility or a separate facility.

- a.) Recycled waste facility incorporated into the general waste collection:

The size of the room must be increased by 10% and not less than 5 m², to allow additional room to sort and store the recyclable waste.

- b.) Recycled waste facility separated from the general waste collection:

The recycled waste facility must be sized as a percentage from the total Built Up Area (BUA) of the building in accordance with Table 1. Sizing Requirement.

Where the Total Built Up Area (BUA) of the building falls between the figures outlined in the Table, linear interpolation must be used to determine an appropriate percentage area for the recyclable storage space.

Table 1. Sizing Requirement

S.No	Built Up Area (BUA) in square meters (m ²)	Minimum Space for Storage of Recyclables
1	Less than 500	7.5 m ²
2	500	1.5 % of BUA
3	1000	0.8 % of BUA
4	5000	0.35 % of BUA
5	10000	0.25 % of BUA

For any clarification or inquiry please contact
Technical Support and Studies Section
Tel No.04-606-6248;
Fax no.04-222-5659
Email: sitalaguit@dm.gov.ae

Disclaimer

The information provided on our website is for general information purposes only. While WKC endeavours to provide the most up to date and accurate information, documents and links on our website, we will not be held liable for any loss or damage including without limitation, indirect or consequential loss or damage, or any loss or damage whatsoever arising from the use any of the information provided on our website. For any queries regarding the information on our website, please contact us on enquiries@wkcgroup.com.