



Telford & Wrekin
Co-operative Council

Protect, care and invest
to create a better borough

Waste Design Supplementary Planning Guide

July 2023

Introduction

- 1.1 This guide is to serve architects and other officers involved in the design and building of proposed developments in Telford and Wrekin, providing information with regard to waste storage facilities to new Household and Apartment schemes. As each scheme is treated and collected differently, this guide is to ensure developers enable sufficient access via the road network in the development for large refuse vehicles, enable refuse and recycling to not only be stored safely and reducing visual impact on the development but also ensuring convenience for residents living in new properties especially those with impairments whilst also minimising the detrimental impact on residents and their quality of life and minimising the aesthetics of the street scene.
- 1.2 The Council, as a Unitary Authority is both a Waste Collection and Waste Disposal Authority. As a Waste Collection Authority it has powers to require residents to present their waste in the receptacles it specifies and at a frequency specified; this guide seeks to outline the issues which should be taken into account by designers and developers to enable occupiers of premises to comply with the Council's requirements.
- 1.3 Under section 46 (Receptacles for Household Waste) and section 47 (Receptacles for the Commercial or Industrial waste of the Act) the Council can specify the type of container(s) to be used for placing segregated waste types and prescribe a collection point(s) where such wastes are to be placed on a given day for collection. This Guide identifies the receptacles prescribed by the Council.
- 1.4 It is recommended that designers engage at an early stage in respect of this guidance and speak to appropriate Officers within the Planning Department, if necessary, before any design is finalised.
- 1.5 There are a number of national targets and drivers that the Council must meet and therefore it is important that all housing developments requiring planning permission contain suitable accommodation for the storage of wastes in its various forms before its removal and provide infrastructure on the site to safely use particular waste streams.

2. How household waste and recycling is collected

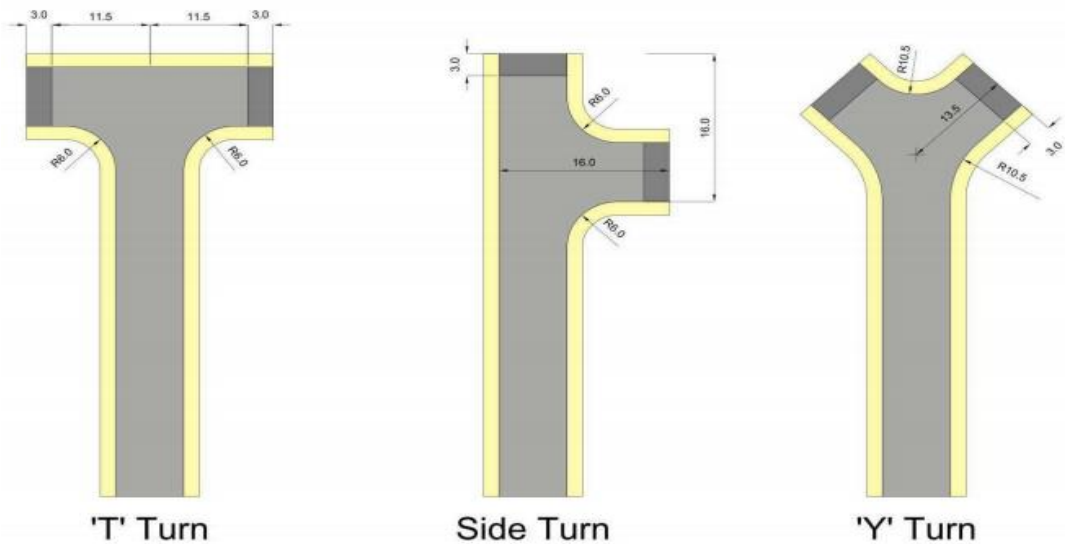
- 2.1 Telford & Wrekin Council operates an alternating fortnightly kerbside household collection service for most services (food is collected weekly). Residents are required to present their non-recyclable (residual) waste and food waste on one week, with recycling, garden waste and food waste collected on the same day of the following week. All bins and containers must be presented by 7am on the day of the scheduled collection at the public highway/pathway nearest the edge of the property and returned as soon as possible afterwards – no later than the following day.
- 2.2 Provision for adequate storage and collection of domestic waste and recycling should be included in the layout of all new developments. New developments should make sufficient provision for waste management and promote designs and layouts that secure the integration of waste management facilities without adverse impact on the street scene or local landscape.
- 2.3 If Developments have shared private drives, adequate space must be provided at the edge of the private shared drive, next to the highway, for all relevant containers to be presented by householders on collection day. Collection crews will not access a private drive. Consideration should be given to the impact of this on the nearest property to the collection point and to ensure this does not obstruct public footpaths.

3. Vehicles and Access

- 3.1 Where collection vehicles are required to access the development to carry out collections the manual for street (DFT) (2007) provides guidance on the design and construction of new residential streets and access roads and should be referred to during the design stage of new developments.
- 3.2 Consideration must be given to vehicle movement, whether the development design would force collection vehicles to stop on the public highway and if parked cars inside the development itself would prevent collections. Consideration should be given on how to stop cars parking inappropriately within the development site, this could include by design or by imposing parking restrictions, and on how private land parking enforcement may be undertaken.
- 3.3 Roads should have foundations and hard wearing surface capable of withstanding a fully laden waste collection vehicle which weighs 32 tonnes.
- 3.4 There must be drop kerbs at all collections points for larger containers and at all communal storage chambers.
- 3.5 Vehicles undertaking collections should be able to stop for loading in a safe and legal position where they will not obstruct other traffic or pedestrians.

- 3.6 A minimum height clearance of 4m is advised throughout the site to enable waste collection vehicles to access the development without hindrance. Residents will also be expected to present their refuse and recycling containers at the nearest curtilage, so the road should be designed so that the presentation of receptacles at the curtilage does not create a hazard. This is particularly important when a shared drive is designed- as all containers will need to be presented at the end of the shared drive, next to the public highway. (see 2.3 for further information) It is recommended from both an operational and safety point of view that adequate turning bays are provided to accommodate collection vehicles, the minimum approved layouts for turning bays are detailed below.

Minimum Approved Layouts for Turning Bays to accommodate Refuse Freighters

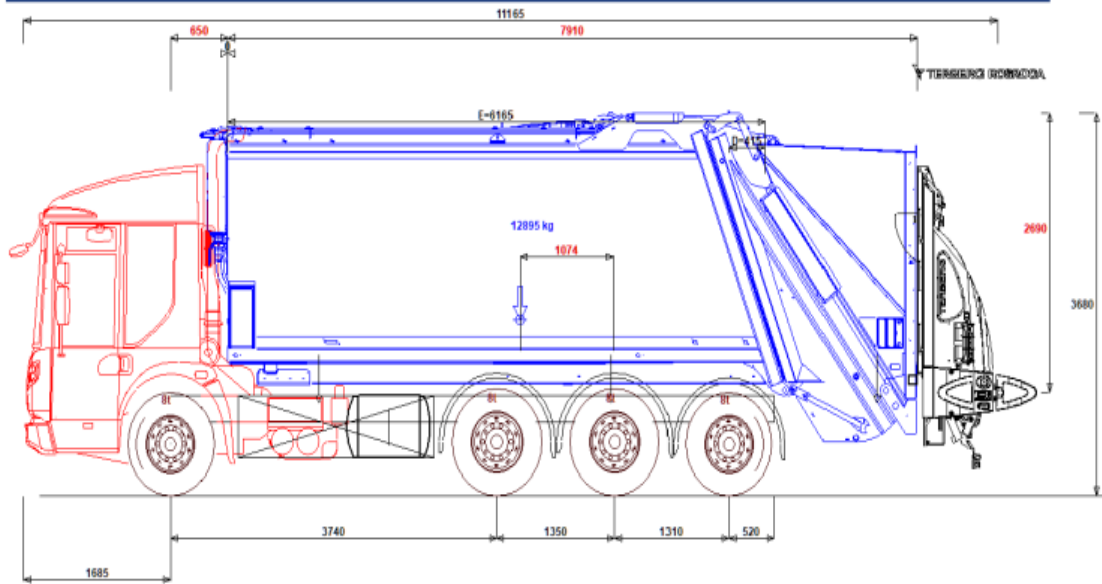


- 3.7 It is recommended that Waste collection vehicles should not be required to reverse in normal circumstance, however where this is unavoidable i.e. the vehicle should never be required to reverse more than 12 metres or up or down a slope. Developers should design roads layouts so that waste collection vehicles are not required to reverse in from or out from the public highway. The dimensions of the 32 tonne collection vehicle (which is currently used by our waste contractor for waste collections) is detailed below

Vehicle Specification Document

Chassis: Dennis Elite6 8x4 Mid Steer Tridem
Body: Dennis Olympus OLTP27
Bin Lift: Terberg OmniDel Triple Electric

Prepared for:
Document Revision: 1 (date)



Payload: 12,000 Max.

Vehicle Details

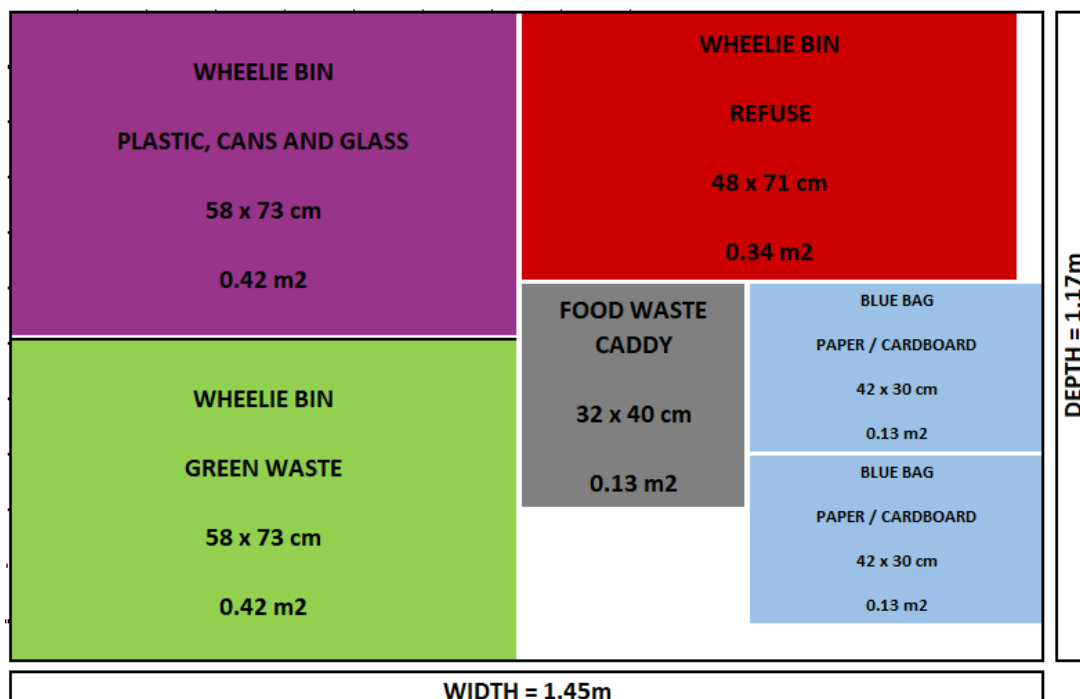
GVW	32,000kg
Wheelbase	6400mm (CL Front Axle to CL Rearmost Axle)
Turning Circle	22.4m (Wall to Wall)
Engine	Volvo D8K 320 Bhp 6 Cyl. 7.7L Diesel
Gearbox	Allison MD3000 6 Speed Automatic
Body Effective Volume	Narrow Side: 9.4m ³ . Wide Side: 17.4m ³
Front Axle Plated Weight	8000kg
Rear Bogie Plated Weight	24000kg






Dimensions

Overall Length	11165mm (Including Binlift)
Overall Width	2530mm
Overall Height	3680mm
Front Overhang	1665mm
Rear Overhang	3080mm (Including Binlift)

4. Household containers -Standard Provision for 2 or more bedroom property (excluding some flats or communal properties)

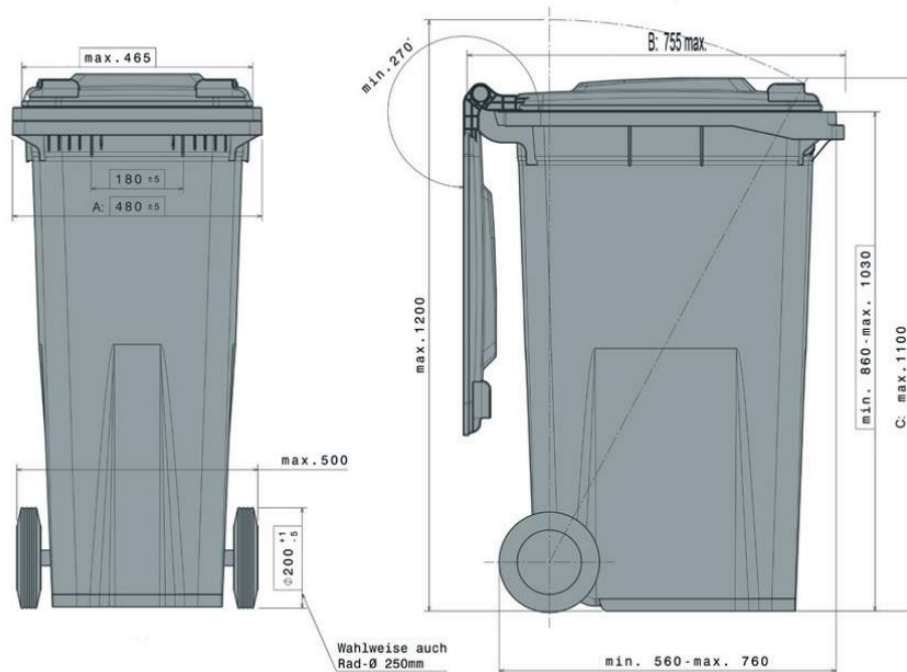
- 4.1 The current size and quantity of bins provided as standard* is:
 *One bedroom properties are issued with smaller purple, red and green bins
- 1x 180L red-top residual waste bin
 - 1x 240L green waste bin
 - 1x 240L purple-top recycling waste bin
 - 2x 65L blue bag for paper and cardboard
 - 1x 23L external food waste caddy
 - 1x 7L internal food waste caddy
- 4.2 The starting point for storing waste and recycling is that each house will have its own bins and other containers, and that they will be stored outside of the house but within the property boundary (such as enclosed rear garden)
- 4.3 Containers for new build properties are subject to an administration charge of £25. Please contact DPM.CRM@telford.gov.uk as soon as possible to discuss payment and delivery schedules for completed phases.
- 4.4 If bin stores are planned for individual properties they should be within the property boundary and able to accommodate 1 x 180 litre 2x 240L bins, 2x 65L blue reusable bags, and 1x 23L external food caddy as a minimum. The dimensions of receptacles used in Telford and Wrekin and the floor-space that is required to accommodate the recycling and waste receptacles is provided below.



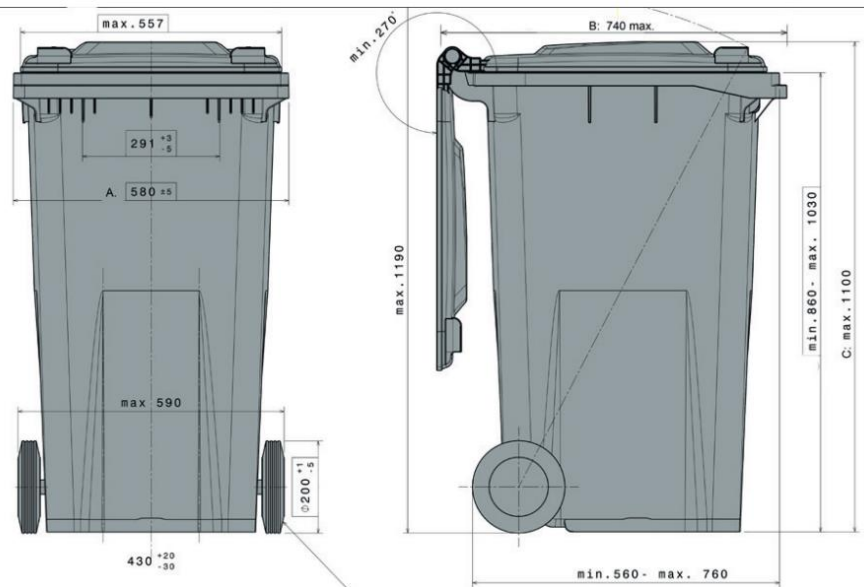
Cans, Glass and Plastic		
	Capacity (litres)	240
	Height (mm)	1100
	Width (mm)	580
	Depth (mm)	740
	Floor space required to store the item (m ²)	0.42
Paper and Cardboard (x 2 Bags)		
	Capacity (litres)	65 each 130 set of 2
	Height (mm)	600
	Width (mm)	420
	Depth (mm)	300
	Floor space required to store the item (m ²)	0.13 each 0.26 set of 2
Refuse		
	Capacity (litres)	180
	Height (cm)	1100
	Width (cm)	465
	Depth (cm)	755
	Floor space required to store the item (m ²)	0.34
Green Waste		
	Capacity (litres)	240
	Height (mm)	1100
	Width (mm)	580
	Depth (mm)	740
	Floor space required to store the item (m ²)	0.42
Food Waste Caddy (Outdoor)		
	Capacity (litres)	23
	Height (mm)	405
	Width (mm)	320
	Depth (mm)	400
	Floor space required to store the item (m ²)	0.13
TOTAL CAPACITY	878 LITRES	
TOTAL FLOOR SPACE REQUIRED	1.69 M²	

4.5 The dimensions of the standard wheelie bins currently used within Telford and Wrekin are provided below.

180L bin used for refuse



**240L bin used for Green Waste
240L bin used for Plastics, Cans and Glass**



4.6 Residents should not have to walk further than 30m total from their property to present their containers for collection.

- 4.7 Developers should try to ensure at all times that waste collection crews collecting from individual households do not have to:
- Carry waste sacks further than 10 metres from the highway to the collection vehicle
 - Carry containers or move wheeled bins more than 15 metres from the highway to the collection vehicle
 - Negotiate steps with either sacks, containers or bins

5.0 Household containers for Communal areas such as flats / apartment / multiple occupancy

To assist with planning capacity for properties services with a communal shared bin provision, the below table may be of use, however communal containers can be of differing size and solutions may differ on each development. Therefore advice on correct capacity and design for communal areas can be sought from the Waste Team by emailing waste@telford.gov.uk

Waste Stream	One Bedroom Properties	Two or more bedroom Properties
Cans, Glass and Plastic	140 litres	240 litres
Paper and Card	80 litres	80 litres
Food Waste	23 litres	23 litres
Garden Waste	140 litres	240 litres
Non recyclable waste	140 litres	180 litres

5.1 Waste/recycling storage areas for flats and apartments:

- Must be within the footprint of the development
- Should be within 30 metres of the dwelling. Residents should not be required to walk more than 30 metres from their front door (excluding vertical distances) when carrying refuse and recycling
- Must be at ground level BS (British Standard) 5906 states that four wheeled bin containers must be within 10 metres from where a vehicle can safely park.
- If vehicular access to the site is necessary, there should be sufficient space for the Refuse Collection Vehicle (RCV) to turn from the main road into the site.
- Waste storage capacity should be designed to ensure that there is sufficient space available to contain the waste generated by the proposed development. For advice on capacity and therefore footprint required please contact waste@telford.gov.uk

- Bin storage chambers should not be used for the storage of resident's personal possessions.

5.2

Communal storage Chamber/Bin Stores:

Telford & Wrekin Council Waste Services are not responsible for the maintenance of any bin stores. Should they become used as a storage area for other items or lapse into a poor condition, including but not limited to discarded furniture, doors/locks broken, the Waste may not be collected and the landowner will be responsible for clearing of the bin store, including costs.

5.3

Dropped kerbs and traffic management must be put in place in front of access to storage chambers for the safe emptying of four wheeled containers. Bin store areas must not back on to parking spaces. Parked vehicles in front of bin stores will result in bins being left in situ, as crews will not be able to remove bins

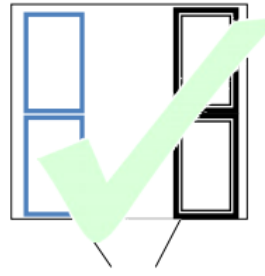
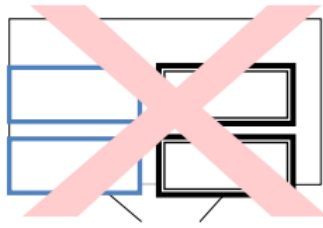


Acceptable drop kerb



Bin store adjacent to parking space which is not acceptable any parked vehicle will block access to the bin

- All communal storage chambers should be constructed with access at street level and incorporate all guidance points below:
- Must be designed allowing containers to fit side by side (width to width), enabling the lid to be fully opened by any person depositing waste/recycling directly in front of them and all containers accessible at all times.
- Access (doorways) must be a minimum of 2m by 2 m to allow the safe removal and return of the containers



- It should be possible to remove the container horizontally during emptying process. Sufficient spaces should be provided to allow that a bin can be removed without the need to move another container.
- There should be sufficient clear space of 150mm between the containers to allow for ease of movement. Residents should not have to squeeze past bins to access the furthest bins.
- Walls and floor the design of the bin store chamber should have regard to accessibility for the elderly and disabled.
- It is recommended that the chamber should also be permanently ventilated.
- Internal height of the chamber must allow the lid to be opened without having to be removed from the storage area.
- The walls, floor and ceiling of the wastes storage accommodation should be secured against access by vermin, as far as is reasonably practicable.
- Doors should be fitted with restrictive openers to prevent over extension and must not open onto or obstruct any existing or proposed public footway or highway.
- Door should ideally be fitted with a secure opening mechanism such as a padlock or key code entry system to allow for safe bin collections and to minimise the risk of fly-tipping. 3x keys / code are to be provided to the waste team to enable access and a named contact for the site is to be provided in case of any issues with accessing the bin store to ensure there is no disruption to the service. Any changes to the key / key code are to be notified to the waste team immediately to prevent disruption to the service.
 - Any storage area should not open to a car parking space as access is required at all times.
 - Ideally, scratch plates should be fitted to the relevant side of the doors to prevent the bins damaging them, e.g. If the doors open outwards, they should be fitted with scratch plates on the inside.
 - All bin chambers should have adequate lighting, artificial or natural to ensure that collections can be carried out safely.
 - An internal notice board area should be provided; this will enable up-to-date information to be displayed, i.e. what materials can be

recycled, collection day, any change to scheduled collection day because of holidays, contact details in case of problems.

External waste stores accessible from outside the development site could be defaced by graffiti and/ or fly-posting. The surface owner is responsible for the removal of this defacement. Therefore, the design of stores could incorporate practical steps to discourage this, for example, the inclusion of anti-graffiti paint, planting, open design and uneven surfaces, and help to maintain a clean and pleasant surroundings, and should be designed to minimise the risk of fly-tipping

To ensure safe access the path from the storage area to the vehicle should be:

- Free of steps, kerbs (dropped kerbs are required), and uneven surfaces
- Be rendered with a smooth continuous finish – no cobbles etc.
- Be flat or slope from the storage chamber at a gradient no more than 1:12

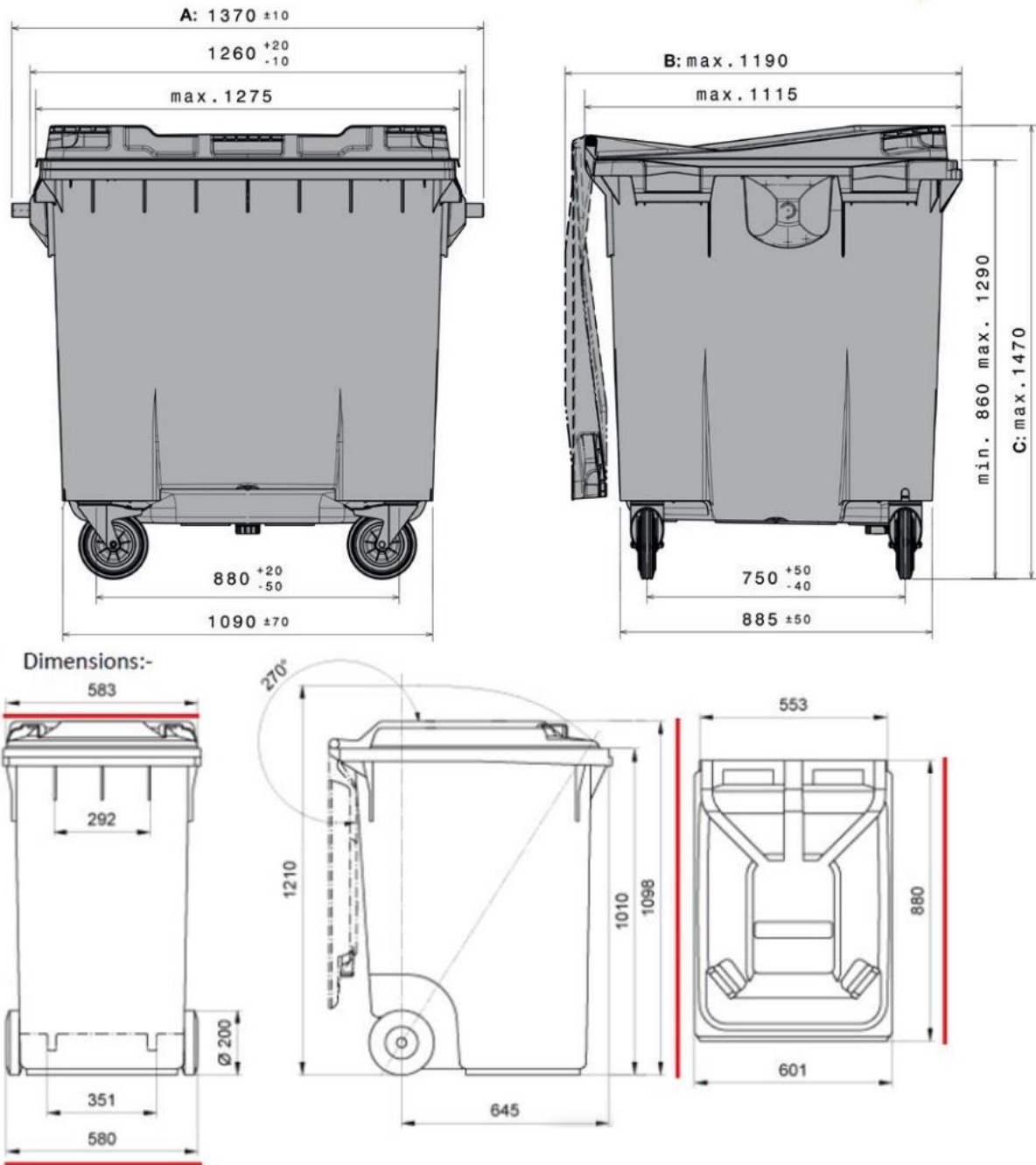
5.4 Communal Containers

There are a number of options which may be used for communal areas and these can be up to an 1100 litre four wheeled bin.

Dimensions for communal container options are below:

Refuse and Recycling Bins

Volume (litres)	Height (mm)	Width (mm)	Depth (mm)	Max Load (kg)
1100	1470	1370	1190	450
360	1098	583	880	



Please contact waste@telford.gov.uk for advice on capacity and suitable container size.

5.5 .Four wheeled bins have a maximum travel distance of 10m from collection point to the vehicle

5.6 **Bulky Waste Collections for properties with communal areas**

Householders can request the chargeable collection of large ‘bulky items’, for example broken furniture, white goods, etc. Anything that is not able to be contained in a black sack would be classed as a bulky waste item and would not usually be included in the normal collection. Developers and managing agents should be mindful that in multiple occupancy developments space to temporarily store these items may be required. Any blocking of access in bin

store rooms or inappropriate overfilling of bins may mean suspension of collection services and lead to further problems with bin rooms or outside areas overflowing with excess bags. In order to manage these bulky waste items the provision of a bulk storage room which is accessible by waste collectors should be considered.

6. Commercial Waste Guidance

- 6.1 Telford & Wrekin Council do not carry out commercial waste collections. Other local licenced waste carriers can be sourced and used to carry out these collections.
- 6.2 Where mixed developments are proposed, access and storage for commercial waste must be separated from domestic storage facilities.
- 6.3 Private Residential and Care Homes should arrange their collections with a commercial provider as above.

7. New developments collection considerations

- 7.1 The Health and Safety of the operatives collecting the waste is of upmost importance and as such Telford & Wrekin Council's current waste collection contractor Veolia, have identified risks and hazards to their employees and the general public when collecting from an unfinished new development.
- 7.2 In the majority of instances, residents inhabit properties on new developments before the large plant and machinery are withdrawn from site or bin storage areas are completed. It is also commonplace that residents are moved in before the final layer of road surface is laid, thus leaving exposed and raised metalwork - a further opportunity for damage to occur, especially with the frequency and weight of collection vehicles entering the site.
- 7.3 It is both unsafe and inefficient for the vehicles to enter the site while the road surface is substandard. This would only cause damage to the road surface and push back completion times. We cannot collect waste from sites that do not have a road strength and type that can withstand the weight of the large collection vehicles and an agreement for bins to be presented at a mutually acceptable point will need to be made. Please contact waste@telford.gov.uk to discuss.
- 7.4 As there are numerous hazards on site for collection and site crews as well as residents, the developer will need to work in conjunction with Telford & Wrekin Council and the Waste Collection Contractor to ensure collections are not disrupted for those residents who have moved in to their property whilst building work is still ongoing.
- 7.5 Delivery of containers, prior to residents occupying properties is recommended, however arrangements for access to the site, the site team to take delivery and store securely must be confirmed. For individual property

containers please contact DPM.CRM@telford.gov.uk to arrange payment and delivery as soon as possible. For information and advice on containers for a communal area, please email waste@telford.gov.uk.

- 7.6 Information for residents on how to manage waste correctly, including leaflets, collection day calendars and communal area notices can be supplied. Please contact waste@telford.gov.uk to discuss.