

Planning for Collection Vehicle Needs

Well-designed access routes and loading areas are essential for safe, efficient waste and recycling collection. Collection vehicles are large, heavy, and require adequate space to move without creating hazards for residents, pedestrians, cyclists, or other vehicles. By considering vehicle dimensions and turning requirements early in the design process, developers can help reduce safety risks, prevent property damage, and support reliable collection service.

Designing Access Routes

Waste and recycling areas should be accessible for a mix of truck sizes and designs. These design elements help make sure that collection vehicles can enter your site, collect garbage and recycling, and exit without having to reverse onto a public road.

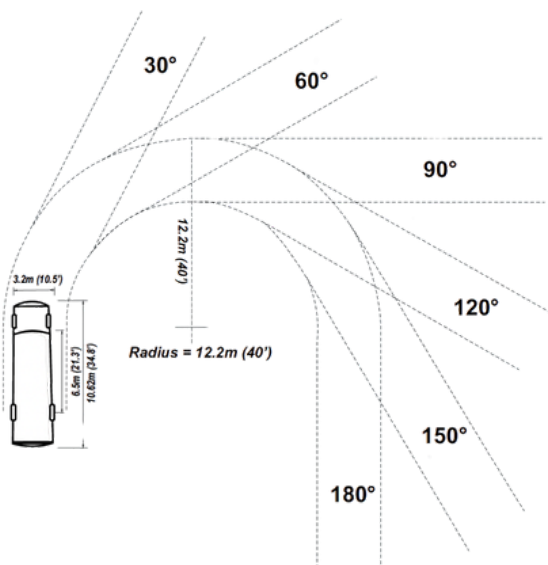
Element	Design Guidelines
Entry & Exit	Allow forward entry and exit, or provide a safe turnabout for a three-point turn ($\geq$ one truck length)
	Vehicles should not reverse onto public roads to minimize collisions with pedestrians, cyclists, and other vehicles
Driveway Width	Minimum 6.0 m at site entry and exit
Access Route	Minimum 4.5 m width throughout access route
Slope	Not to exceed 6% (recommended 2% in collection/loading areas)
Overhead Clearance	Minimum 4.5 m along entire access route
Turning Radius	Minimum 12.5 m, with no encroaching structures (e.g., balconies or overhangs)
Floor	Design for collection vehicle weights up to 30 tonnes
Signage	Install clearance signs where applicable

Designing Loading Areas

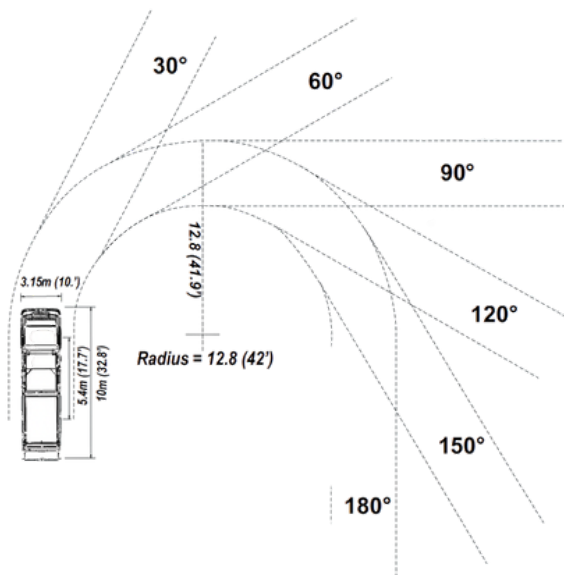
Loading and collection areas must be designed for different truck sizes and configurations. These areas should provide enough vertical clearance and space to support the turning radius of collection vehicles.

Vehicle Collection Type	Length (m)	Width (m)	Height (m)
Side-loading Carts	13	5.5	6.2
Front-end Bins	15	6	7.5

Manual Collection Vehicle Turning Radius



Front-loading Turning Radius

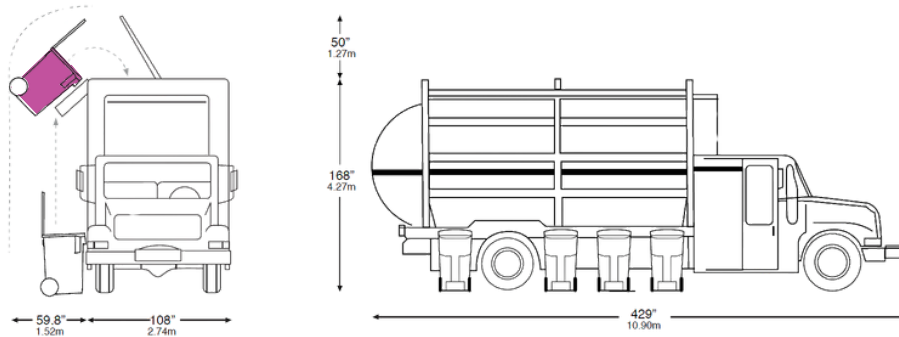


For **high-volume properties**, consult your hauler to determine if a compactor is suitable. Compactors require dedicated space and low-clearance truck access, as they are typically hauled off-site for emptying by a specialized truck and then returned.

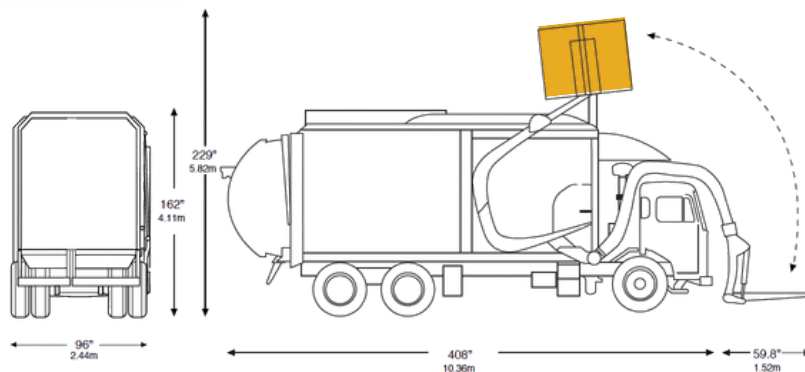
Truck Dimensions & Clearance

Use the following information as a guide to determine what dimensions are needed for common types of collection vehicles.

Vehicle Collection Type		Length (m)	Width (m)	Height (m)
Side Loading Carts	Truck	10.11	2.74	4.27
	Truck with Bins	11.63	4.27	5.54



Front Loading Bins	Truck	10.36	3.15	4.11
	Truck with Bins	2.36	2.44	6.9



Roll-off Bin/ Compactor	Truck	10.97	2.44	3.56
	Truck with Bins	11.58	2.44	5.84

