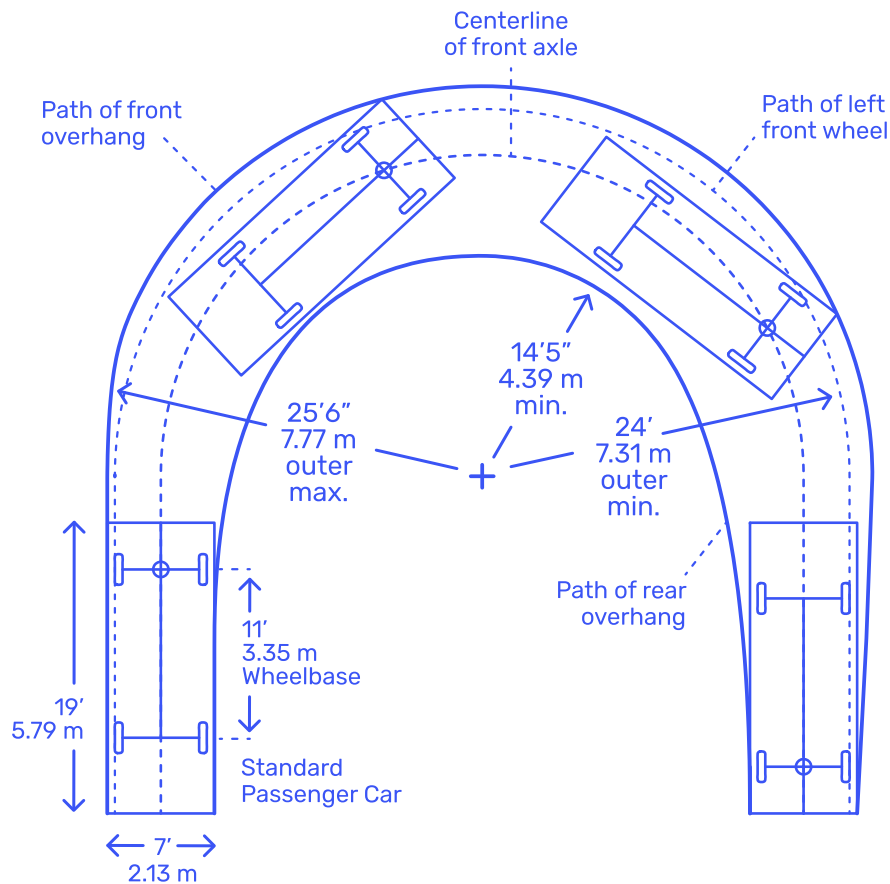


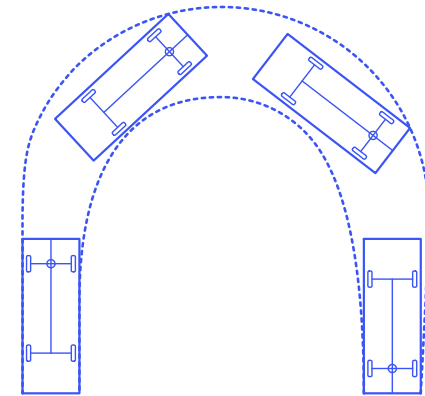


Layouts > Vehicle Turning Paths

Passenger Turning Path - 180°



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Details

Outer Radius: 24'-25'6" | 7.31-7.77 m
Inner Radius: 14'5" | 4.39 m

Vehicle Wheelbase: 11' | 3.35 m
Vehicle Length: 19' | 5.79 m
Vehicle Width: 7' | 2.13 m



The 180° turning path of a passenger vehicle measures the minimum possible turning radius for use when designing spaces for *u-turns* or *turn-arounds* within streets, parking lots, drop-offs, or service areas. Turning paths can use either *curb-to-curb* or *wall-to-wall* measurements based on whether the turning circles are calculated based on the outer tire or the outer front overhang. Additional clearances should be provided whenever possible to accommodate a larger variety of car sizes and driver abilities.

Dimensions & Sizes

Measuring the inner and outer radii of the 180° turn, a minimum inner radius of 14'5" (4.39 m) and minimum outer radius between 24'-25'6" (7.31-7.77 m) should be provided throughout the turn.

Common Questions

What is the minimum inside turning radius required for a passenger vehicle making a 180° turn?

A minimum inner turning radius of 14'5" | 4.39 m should be provided for a passenger vehicle making a 180° turn.

What is the minimum outside turning radius required for a passenger vehicle making a 180° turn?

The outer turning radius necessary for a passenger vehicle making a a 180° turn should be between at least 24'-25'6" | 7.31-7.77 m based on the

Links

- Wikipedia - Turning Radius
- Wikipedia - Turning Radius

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Text by Bryan
Updated on April 8, 2020

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The average mid-size passenger car, typically a sedan, has an overall length of 15'10" | 4.83 m and a width of 6' | 1.83 m.

Vehicle Turning Paths ×

How is a turning circle measured?

A vehicle's turning circle is the radius (or diameter) measured by the outer wheels of the vehicle while making a complete turn.

What car has the smallest turning radius?

The smart fortwo (2016) has the smallest turning radius of a passenger vehicle at a radius of 22'10" | 6.9 m.

What is a typical turning circle for a passenger car?

A turning radius of 34'-35' | 10.4-10.7 m is common for passenger cars today.

Vehicle Turning Paths

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Vehicle turning paths, also known as turning radii, refer to the space a vehicle requires to make a turn. This concept is crucial in urban planning and design, affecting everything from the width of roads and driveways to the layout of parking lots and intersections.

Passenger - 90°

Passenger - 180°

Semi-Trailer Truck - 40' WB

Single-Unit Truck | Bus - 20'



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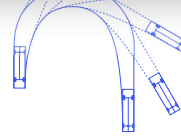
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