



Turning Performance Analysis

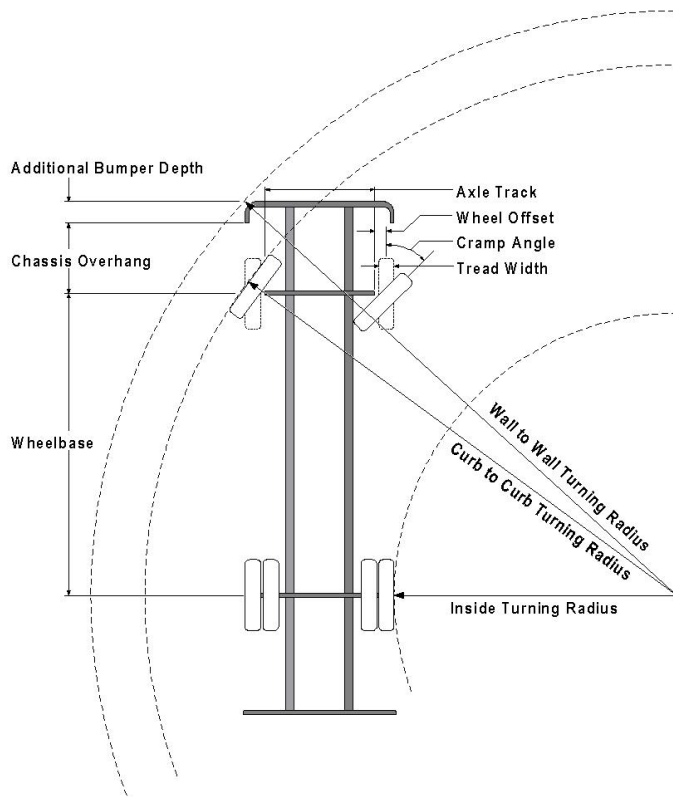
08/22/2025

Bid Number: 924

Department: WEBER FIRE DISTRICT

Chassis: Enforcer Chassis, Aerials, Tandem Axle, Ascendant/LSL

Body: Aerial, HD Ladder 107' ASL Tandem, Alum Body



Parameters:

*Inside Cramp Angle:	45°
Axle Track:	82.92 in.
Wheel Offset:	5.25 in.
Tread Width:	16.3 in.
Chassis Overhang:	65.95 in.
Additional Bumper Depth:	7 in.
Front Overhang:	77.5 in.
Wheelbase:	248.5 in.

Calculated Turning Radii:

Inside Turn:	19 ft. 7 in.
Curb to curb:	35 ft. 8 in.
Wall to wall:	39 ft. 7 in.

Comments:

Weber Fire District Turning Performance

Category	Option	Description
Aerial Devices	0755095	Aerial, 107' ASL Tandem, 750/500 Tip, 50 MPH
Bumpers	0740950	Bumper, Non-Extended, Steel, Paint Feature, Saber FR/Enforcer
Axle, Front, Custom	0629940	Axle, Front, Oshkosh TAK-4, Non Drive, 22,800 lb, Enforcer
Tires, Front	0594821	Tires, Front, Goodyear, G296 MSA, 425/65R22.50, 20 ply
Wheels, Front	0604672	Wheels, Front, Accuride, 22.50" x 12.25", Steel, Hub Pilot

Notes:

*Actual Inside cramp angle may be less than shown.

Curb to Curb turning radius calculated for 9.00 inch curb.

Definitions:

Inside CrampAngle	Maximum turning angle of the front inside fire.
Axle Track	King-pin to King-pin distance of front axle.
Wheel Offset	Offset from the center line of the wheel to the King-pin.
Tread Width	Width of the tire tread.
Chassis Overhang	Distance of the center line of the front axle to the front edge of the cab. This does not include the bumper depth.
Additional Bumper Wheel	Depth that the bumper assembly adds to the front overhang.
Wheelbase	Distance between the center lines of the vehicles front and rear axles.
Inside Turning Radius	Radius of the smallest circle around which the vehicle can turn.
Curb to Curb Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures assumes a curb height of 9 inches.
Wall to Wall Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures takes into account any front overhang due to chassis , bumper extensions and or aerial devices.