

# ATF

## VEHICLE BOMB EXPLOSION HAZARD AND EVACUATION DISTANCE TABLES









DEPARTMENT OF THE TREASURY  
BUREAU OF ALCOHOL, TOBACCO  
AND FIREARMS

**IF YOU SUSPECT UNLAWFUL POSSESSION  
OR USE OF EXPLOSIVES OR BOMBS  
CALL 1-888-ATF-BOMB OR YOUR LOCAL  
ATF OFFICE FOR ASSISTANCE**

- Minimum evacuation distance is the range at which a life-threatening injury from blast or fragment hazards is unlikely. However, non-life-threatening injury or temporary hearing loss may occur.
- Hazard ranges are based on open, level terrain.
- Minimum evacuation distance may be less when explosion is confined within a structure.
- Falling glass hazard range is dependent on line-of-sight from explosion source to window. Hazard is from falling shards of broken glass.
- Metric equivalent values are mathematically calculated.
- Explosion confined within a structure may cause structural collapse or building debris hazards.
- Additional hazards include vehicle debris.

This information was developed with data from the Dipole Might vehicle bomb research program conducted by ATF, with technical assistance from the U.S. Army Corps of Engineers. Goals for Dipole Might include creating a computerized database and protocol for investigating large-scale vehicle bombs. Dipole Might is sponsored by the Technical Support Working Group (TSWG). TSWG is the research and development arm of the National Security Council interagency working group on counterterrorism.

<b>ATF</b>	<b>VEHICLE DESCRIPTION</b>	<b>MAXIMUM EXPLOSIVES CAPACITY</b>	<b>LETHAL AIR BLAST RANGE</b>	<b>MINIMUM EVACUATION DISTANCE</b>	<b>FALLING GLASS HAZARD</b>
	COMPACT SEDAN	500 Pounds 227 Kilos <i>(In Trunk)</i>	<b>100 Feet</b> <b>30 Meters</b>	<b>1,500 Feet</b> <b>457 Meters</b>	1,250 Feet 381 Meters
	FULL SIZE SEDAN	1,000 Pounds 455 Kilos <i>(In Trunk)</i>	<b>125 Feet</b> <b>38 Meters</b>	<b>1,750 Feet</b> <b>534 Meters</b>	1,750 Feet 534 Meters
	PASSENGER VAN OR CARGO VAN	4,000 Pounds 1,818 Kilos	<b>200 Feet</b> <b>61 Meters</b>	<b>2,750 Feet</b> <b>838 Meters</b>	2,750 Feet 838 Meters
	SMALL BOX VAN <i>(14 FT BOX)</i>	10,000 Pounds 4,545 Kilos	<b>300 Feet</b> <b>91 Meters</b>	<b>3,750 Feet</b> <b>1,143 Meters</b>	3,750 Feet 1,143 Meters
	BOX VAN OR WATER/FUEL TRUCK	30,000 Pounds 13,636 Kilos	<b>450 Feet</b> <b>137 Meters</b>	<b>6,500 Feet</b> <b>1,982 Meters</b>	6,500 Feet 1,982 Meters
	SEMI-TRAILER	60,000 Pounds 27,273 Kilos	<b>600 Feet</b> <b>183 Meters</b>	<b>7,000 Feet</b> <b>2,134 Meters</b>	7,000 Feet 2,134 Meters

This was last updated on January 14, 1999