

**Table 501-III-2-1
Minimum Distances for Fragment Throw Considerations**

TNT Equivalent, kg	Minimum Distance, m	TNT Equivalent, lb	Minimum Distance, ft
0 to 3	50	0 to 5	140
3 to 5	60	5 to 10	180
5 to 10	70	10 to 20	220
10 to 15	80	20 to 30	250
15 to 20	90	30 to 40	280
20 to 25	95	40 to 50	300
25 to 35	105	50 to 75	340
35 to 50	120	75 to 100	380
50 to 65	130	100 to 125	400
65 to 80	140	125 to 150	430
80 to 100	150	150 to 200	470
100 to 120	160	200 to 250	510
120 to 150	170	250 to 300	540
150 to 200	190	300 to 400	590
200 to 250	205	400 to 500	640
250 to 300	215	500 to 600	680
300 to 350	225	600 to 700	710
350 to 400	240	700 to 800	750
400 to 450	245	800 to 900	780
450 to 500	255	900 to 1,000	800
500 to 600	270	1,000 to 1,200	850
600 to 700	285	1,200 to 1,400	940
700 to 800	300	1,400 to 1,800	980
800 to 900	310	1,800 to 2,000	1,010
900 to 1 100	330	2,000 to 2,500	1,090
1 100 to 1 300	350	2,500 to 3,000	1,160
1 300 to 1 500	365	3,000 to 4,000	1,270
1 500 to 1 900	395	4,000 to 5,000	1,370
1 900 to 2 300	420	5,000 to 6,000	1,460
2 300 to 2 800	450	6,000 to 7,000	1,540
2 800 to 3 300	475	7,000 to 8,000	1,600
3 300 to 3 800	500	8,000 to 9,000	1,670
3 800 to 4 400	525	9,000 to 10,000	1,730
4 400 to 5 000	530	10,000 to 12,000	1,750
5 000 to 5 500	535	12,000 to 14,000	1,770
5 500 to 6 500	545	14,000 to 16,000	1,800
6 500 to 7 500	570	16,000 to 18,000	1,880
7 500 to 8 500	590	18,000 to 20,000	1,950
8 500 to 10 000	605	20,000 to 25,000	2,000

GENERAL NOTE: Based on American Table of Distances published by the Institute of Makers of Explosives. Lengths are for inhabited buildings, unbarricaded.