



## LMAS 10.50 Annex B

# SAFETY DISTANCES FOR EXPLOSIVE STORAGE FACILITIES

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**Note:**

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.3 1. Introduction

For the storage of their main explosive stocks Mine Action Organisations should apply the safety distances given in Annex D where practicable as long as the NEQ is less than 500kg and the explosives have no fragmentation risk, unless instructed otherwise by the NMAA. For guidance on the storage of Hazard Division 1.1 explosives over 500kg or posing a fragmentation hazard, or for the storage of explosives in Hazard Divisions 1.2 to 1.6, IATG 02.20 should be used.

Net Explosive Quantity (NEQ) (kg)		Distance (m)							
		Inhabited Building Distance (IBD)		Public Traffic Routes (PTR) (Traffic Volume)				Inter Magazine Distance (IMD)	
				Less than 3000 veh/day		More than 3000 veh/day			
Over	Less Than	Barricaded	Unbarricaded	Barricaded	Unbarricaded	Barricaded	Unbarricaded	Barricaded	Unbarricaded
0	3	21.3	46.6	9.1	19.3	15.5	33.6	1.8	4.1
3	5	29.4	56.1	11.7	23.3	21.2	42.4	2.6	5.3
5	10	34	68.9	13.9	27.7	25.1	50.1	3.7	6.2
10	15	39	79	15.6	31.1	29.0	57.9	3.4	6.5
15	20	43.6	87.8	17.2	34.5	32.0	64.1	3.8	7.7
20	25	48.2	93.9	19.5	39.1	35.6	71.3	4.4	8.8
25	35	53.1	105	21.6	43.3	39.5	78.9	4.6	9.3
35	50	58.2	118	23.0	46.0	42.7	85.3	4.9	9.9
50	65	62.8	129	25.0	50.0	46.8	93.7	5.6	11.2
65	80	70	138	28.1	56.3	52.0	104	6.2	12.5
80	100	74.8	148	30.6	61.1	55.6	111	6.7	13.4
100	120	79.6	158	32.6	65.3	59.1	118	7.1	14.3
120	150	84.5	169	34.4	68.8	63.0	126	7.6	15.2
150	200	92.3	186	37.5	75.0	69.0	138	8.4	16.8
200	250	100	201	40.2	80.5	74.4	149	9.1	18.2
250	300	106	213	42.7	85.4	79.1	158	9.6	19.2
300	350	112	225	45.1	90.3	83.3	167	9.9	19.9
350	400	118	236	46.8	93.6	87.1	174	10.5	21.0
400	450	121	243	48.5	97.0	90.8	182	10.9	21.8
450	500	129	252	50.2	100	96.5	193	11.8	23.6

Table 1: Quantity (Safety) Distances for Explosive Storage Facilities.

**Note:** Barricaded means the effective screening of the magazine containing explosives from a building containing explosives, or other building or railway or roadway by a natural or by an artificial barrier. A straight line from the top wall of a building or magazine containing explosives to the eaves line of any other building or a point 3.5m above the centreline of any roadway or railway shall pass through such a barrier. It is also often referred to as traversing