

SCHEDULE 1

Regulation 5(1)

SEPARATION DISTANCES

1.—(1) In this Schedule—

“brick-built” means having an outer structure which is wholly or mainly of brick, concrete, stone or other similar material;

“distance”, except in the definition of “reference zone”, means the minimum distance;

“footpath” has the same meaning as in the Roads (Northern Ireland) Order 1993(1);

“footway” has the same meaning as in the Roads (Northern Ireland) Order 1993;

“lightly-used road” means a road used ordinarily by more than 20 and no more than 500 vehicles every 24 hours;

“major road” means a road used ordinarily by more than 10,000 vehicles every 24 hours;

“metal-built” means built wholly or mainly of steel or other metal;

“minor road” means a road used ordinarily by more than 500 vehicles every 24 hours, other than a major road;

“mounded” means surrounded by suitable mounds;

“place of public resort” means a place where more than 100 persons are present, or are likely to be present, at any one time on a weekly or more frequent basis;

“reference zone” means the area around a store having the radius from the centre point of the store specified in column 5 of the relevant Table;

“road” means any thoroughfare on which the movement of vehicles is allowed; and

“vulnerable building” means a building of 4 storeys or more above ground with a curtain-wall construction, that is to say where the masonry, glass or other cladding is suspended from the structural framework of the building.

(2) Any reference in this Schedule to a railway line, thoroughfare (however described) or waterway does not include any part of a railway line, thoroughfare or waterway within the site—

(a) in which the store is situated; and

(b) which is occupied by the person storing the explosives.

(3) Any reference in this Schedule to a quantity of explosives shown in column 1 of a Table is to a quantity stored which is more than the lower figure but not more than the higher figure in column 1 in the same row of the Table.

(4) Any reference in this Schedule to a building is to a building in or at which people are, or are likely to be, present either all the time or from time to time.

(5) For the purpose of this Schedule, where explosives of different hazard types are in one store, the explosives shall be treated as belonging to the hazard type which would require the greatest separation distance for the total quantity of those explosives and the separation distance shall be determined in relation to that total quantity.

(6) For the purpose of this Schedule, the radius for a reference zone applying in a particular case is the number in the entry in column 5 of the relevant Table corresponding to the quantity of explosives shown in column 1 of the Table.

(7) For the purpose of this Schedule, any reference to “footpath”, “footway” or “waterway” does not include, respectively, footpath or footway used, or waterway navigated, by no more than, ordinarily, 20 persons every 24 hours.

(1) [S.I. 1993/3160 \(N.I. 15\)](#), to which there are amendments not relevant to these Regulations.

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2. Where the storage is of—

- (a) Hazard Type 1 explosive in a brick-built mounded store, Table 1;
- (b) Hazard Type 1 explosive in a brick-built unmounded store, Table 2;
- (c) Hazard Type 1 explosive in a metal-built mounded store, Table 3;
- (d) Hazard Type 1 explosive in a metal-built unmounded store with no detonator annex attached, Table 4;
- (e) Hazard Type 1 explosive in a metal-built unmounded store with a detonator annex attached, Table 5;
- (f) Hazard Type 2 explosive, some or all items being of more than 0.7 kilograms net mass, Table 6;
- (g) Hazard Type 2 explosive, every item being of 0.7 kilograms net mass or less, Table 7;
- (h) Hazard Type 3 explosive, Table 8; or
- (i) Hazard Type 4 explosive, Table 9,

shall apply and any reference in this Schedule to a relevant Table is a reference to the Table which applies by virtue of this paragraph.

3. Subject to paragraphs 4 and 5, the distance between a store and any building, place of public resort or major road shall be the distance specified in the entry in column 2 of the relevant Table corresponding to the quantity of explosives shown in column 1 of the Table.

4. Subject to paragraph 5, where—

- (a) Table 1, 3, 4 or 5 applies; and
- (b) the number of dwellings in the reference zone is greater than the number specified in the entry in column 6 of the Table corresponding to the quantity of explosives shown in column 1 of the Table,

the distance between the store and any dwelling shall be the distance (if any) specified in the corresponding entry in column 3 of the Table.

5. The distance between a store and any vulnerable building shall be the distance (if any) specified in the column headed “Vulnerable building distance” corresponding to the quantity of explosives shown in column 1 of the relevant Table.

6. The distance between a store and—

- (a) any minor road or railway line shall be half; and
- (b) any footpath, footway, lightly-used road or waterway shall be one-third,

the distance shown in column 2 of the Table corresponding to the quantity of explosives shown in column 1 of the Table.

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TABLE 1

HAZARD TYPE 1 EXPLOSIVE IN A BRICK-BUILT MOUNDED STORE

1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>	3 <i>High density distance (metres)</i>	4 <i>Vulnerable building distance (metres)</i>	5 <i>Reference zone radius (metres)</i>	6 <i>Maximum number of dwellings in reference zone</i>
0.1–25	101	—	101	—	—
25–50	107	—	107	—	—
50–75	112	—	112	—	—
75–100	118	—	118	—	—
100–150	128	142	128	257	81
150–200	139	156	139	278	96
200–300	161	180	161	322	128
300–400	183	—	183	—	—
400–450	193	—	193	—	—
450–500	204	—	204	—	—
500–600	204	—	216	—	—
600–700	204	231	238	408	206
700–800	204	238	260	408	206
800–900	204	245	280	408	206
900–1000	204	250	300	408	206
1000–1100	204	255	319	408	206
1100–1200	204	259	337	408	206
1200–1300	204	263	354	408	206
1300–1400	204	266	370	408	206
1400–1500	204	269	386	408	206
1500–1600	204	272	402	408	206
1600–1700	208	274	416	416	214
1700–1800	215	277	431	431	229
1800–1900	222	279	444	444	244
1900–2000	229	281	458	458	259

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TABLE 2

HAZARD TYPE 1 EXPLOSIVE IN A BRICK-BUILT UNMOUNDED STORE

1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>	3 <i>Vulnerable building distance (metres)</i>
0.1–25	141	141
25–50	160	160
50–75	180	180
75–100	199	199
100–150	230	230
150–200	256	256
200–300	293	293
300–400	320	320
400–450	331	331
450–500	340	340
500–600	355	355
600–700	367	367
700–800	377	377
800–900	385	385
900–1000	392	392
1000–1100	398	398
1100–1200	403	403
1200–1300	408	408
1300–1400	412	412
1400–1500	415	415
1500–1600	418	418
1600–1700	421	421
1700–1800	424	431
1800–1900	426	444
1900–2000	428	458

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TABLE 3

HAZARD TYPE 1 EXPLOSIVE IN A METAL-BUILT MOUNDED STORE

1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>	3 <i>High density distance (metres)</i>	4 <i>Vulnerable building distance (metres)</i>	5 <i>Reference zone radius (metres)</i>	6 <i>Maximum number of dwellings in reference zone</i>
0.1–25	34	45	40	68	6
25–50	37	45	48	74	7
50–75	40	45	54	80	8
75–100	43	48	66	86	9
100–150	49	55	86	97	12
150–200	54	62	104	109	15
200–300	68	76	136	136	23
300–400	83	—	165	—	—
400–450	89	—	178	—	—
450–500	96	—	191	—	—
500–600	108	—	216	—	—
600–700	119	—	238	—	—
700–800	130	—	260	—	—
800–900	140	—	280	—	—
900–1000	150	—	300	—	—
1000–1100	159	—	319	—	—
1100–1200	168	—	337	—	—
1200–1300	177	—	354	—	—
1300–1400	185	—	370	—	—
1400–1500	193	—	386	—	—
1500–1600	201	—	402	—	—
1600–1700	208	—	416	—	—
1700–1800	215	—	431	—	—
1800–1900	222	—	444	—	—
1900–2000	229	—	458	—	—

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TABLE 4

**HAZARD TYPE 1 EXPLOSIVE IN A METAL-BUILT UNMOUNDED
STORE WITH NO DETONATOR ANNEX ATTACHED**

1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>	3 <i>High density distance (metres)</i>	4 <i>Vulnerable building distance (metres)</i>	5 <i>Reference zone radius (metres)</i>	6 <i>Maximum number of dwellings in reference zone</i>
0.1–10	23	30	40	46	3
10–20	29	35	42	57	4
20–30	33	39	44	65	5
30–40	36	42	46	71	6
40–50	38	44	48	76	7
50–60	40	46	48	80	8
60–70	42	48	52	84	9
70–80	43	50	57	87	9
80–90	44	52	61	89	10
90–100	45	55	66	91	10
100–110	46	57	70	93	11
110–120	47	59	74	95	11
120–130	48	62	78	97	12
130–140	49	64	82	98	12
140–150	50	66	86	100	12
150–160	51	68	90	102	13
160–170	52	71	93	104	13
170–180	53	73	97	106	14
180–190	54	75	101	108	14
190–200	55	78	104	110	15
200–300	68	101	136	136	23
300–400	83	124	165	165	34
400–450	89	135	178	178	39
450–500	96	138	191	191	45
500–600	108	144	216	216	57
600–700	119	150	238	238	70
700–800	130	156	260	260	83
800–900	140	162	280	280	97

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1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>	3 <i>High density distance (metres)</i>	4 <i>Vulnerable building distance (metres)</i>	5 <i>Reference zone radius (metres)</i>	6 <i>Maximum number of dwellings in reference zone</i>
900–1000	150	168	300	300	111
1000–1100	159	168	319	319	111
1100–1200	168	—	337	—	—
1200–1300	177	—	354	—	—
1300–1400	185	—	370	—	—
1400–1500	193	—	386	—	—
1500–1600	201	—	402	—	—
1600–1700	208	—	416	—	—
1700–1800	215	—	431	—	—
1800–1900	222	—	444	—	—
1900–2000	229	—	458	—	—

TABLE 5

HAZARD TYPE 1 EXPLOSIVE IN A METAL-BUILT
UNMOUNDED STORE WITH A DETONATOR ANNEX ATTACHED

1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>	3 <i>High density distance (metres)</i>	4 <i>Vulnerable building distance (metres)</i>	5 <i>Reference zone radius (metres)</i>	6 <i>Maximum number of dwellings in reference zone</i>
0.1–25	38	53	54	74	11
25–50	43	53	54	86	11
50–75	48	60	54	96	11
75–100	53	77	66	106	14
100–150	63	110	86	127	20
150–200	74	143	104	147	27
200–300	94	209	136	188	44
300–400	115	275	165	229	65
400–450	125	308	178	250	77
450–500	128	309	191	257	81
500–600	135	311	216	270	90
600–700	142	312	238	283	99

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1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>	3 <i>High density distance (metres)</i>	4 <i>Vulnerable building distance (metres)</i>	5 <i>Reference zone radius (metres)</i>	6 <i>Maximum number of dwellings in reference zone</i>
700–800	148	314	260	297	109
800–900	155	316	280	310	119
900–1000	162	318	300	324	129
1000–1100	169	319	319	337	140
1100–1200	175	321	337	350	152
1200–1300	182	323	354	364	163
1300–1400	189	325	370	377	176
1400–1500	195	326	386	391	188
1500–1600	202	328	402	404	202
1600–1700	209	330	416	417	215
1700–1800	215	332	431	431	229
1800–1900	222	333	444	444	244
1900–2000	229	335	458	458	259

TABLE 6

HAZARD TYPE 2 EXPLOSIVE, SOME OR ALL ITEMS BEING OF MORE THAN 0.7 KILOGRAMS NET MASS

1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>	3 <i>Vulnerable building distance (metres)</i>
0.1–25	45	90
25–50	88	176
50–75	108	216
75–100	129	238
100–150	148	296
150–200	168	336
200–300	191	382
300–400	207	414
400–450	213	426
450–500	219	438
500–600	226	452
600–700	233	466

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1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>	3 <i>Vulnerable building distance (metres)</i>
700–800	240	480
800–900	248	496
900–1000	256	512
1000–1100	259	518
1100–1200	262	524
1200–1300	266	532
1300–1400	270	540
1400–1500	274	548
1500–1600	278	556
1600–1700	282	564
1700–1800	286	572
1800–1900	288	576
1900–2000	292	592

TABLE 7

HAZARD TYPE 2 EXPLOSIVE, EVERY ITEM
BEING OF 0.7 KILOGRAMS NET MASS OR LESS

1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>	3 <i>Vulnerable building distance (metres)</i>
0.1–25	37	76
25–50	43	86
50–75	47	94
75–100	51	102
100–150	56	112
150–200	60	120
200–300	66	132
300–400	71	142
400–450	73	146
450–500	74	148
500–600	76	152
600–700	78	158
700–800	81	162
800–900	84	164

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1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>	3 <i>Vulnerable building distance (metres)</i>
900–1000	87	174
1000–1100	88	176
1100–1200	89	178
1200–1300	90	180
1300–1400	91	182
1400–1500	92	184
1500–1600	94	188
1600–1700	95	190
1700–1800	97	194
1800–1900	99	198
1900–2000	101	202

TABLE 8

HAZARD TYPE 3 EXPLOSIVE

1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>
0.1–25	—
25–50	23
50–75	25
75–100	29
100–150	33
150–200	37
200–300	42
300–400	47
400–450	47
450–500	50
500–600	51
600–700	53
700–800	54
800–900	55
900–1000	63
1000–1100	70
1100–1200	71

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1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>
1200–1300	72
1300–1400	73
1400–1500	74
1500–1600	75
1600–1700	76
1700–1800	78
1800–1900	79
1900–2000	80

TABLE 9

HAZARD TYPE 4 EXPLOSIVE

1 <i>Quantity of explosives (kilograms)</i>	2 <i>Low density distance (metres)</i>
0.1–250	—
250–300	1
300–340	2
340–370	3
370–400	4
400–450	5
450–500	6
500–550	7
550–600	8
600–650	9
650–700	10
700–750	11
750–800	12
800–900	13
900–950	14
950–1000	15
1000–1100	16
1100–1150	17
1150–1200	18
1200–1300	19
1300–1350	20

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1	2
<i>Quantity of explosives (kilograms)</i>	<i>Low density distance (metres)</i>
1350–1400	21
1400–1450	22
1450–1550	23
1550–1600	24
1600–1650	25
1650–1700	26
1700–1800	27
1800–1850	28
1850–1900	29
1900–2000	30
