



## Underwrites Laboratories Inc

### Bullet Resisting Equipmet

### UL 752

RATING	AMMUNITION	ENERGY FT-LBS	JOULES	BULLET GRAMS	WEIGHT GRAINS	STRIKING M/S	VELOCITY FT/S	# OF STRIKES	STRIKE mm	SPACING INCHS	PATTERN SHAPE	TEST RANGE	Tickness BRG
LEVEL 1	9mm FMJ, LEAD	380/460	515/624	8	124	358/394	1175/1293	3	89.3/114.7	3.5/4.5	TRI	15FT	14
LEVEL 2	.357 MAG FMJ, SP	548/663	743/899	10.2	158	381/419	1250/1375	3	89.3/114.7	3.5/4.5	TRI	15FT	16
LEVEL 3	.44 MAG SWC, LEAD	971/1175	1317/1593	15.6	240	411/452	1350/1485	3	89.3/114.7	3.5/4.5	TRI	15FT	21
LEVEL 4	.30 RIFLE FMJ,SP	2580/3120	3498/4929	11.7	180	774/851	2540/2794	1	89.3/114.7	MIDDLE	-	15FT	26
LEVEL 5	7.62 mm FMJ, BALL	2519/3048	3416/4133	9.7	150	838/922	2750/3025	1	89.3/114.7	MIDDLE	-	15FT	32
LEVEL 6	9mm FMJ, LEAD	540/653	732/885	8	124	427/470	1400/1540	5	114 X 114	4.5 X 4.5	SQUARE	15FT	26
LEVEL 7	5.56 FMJ, SC	1158/1402	1570/1901	3.56	55	939/1033	3080/3388	5	114 X 114	4.5 X 4.5	SQUARE	15FT	32
LEVEL 8	7.62 mm FMJ, BALL	2519/3048	3416/4133	9.7	150	838/922	2750/3025	5	114 X 114	4.5 X 4.5	SQUARE	15FT	40
SHOTGUN	12 GAUGE SLUG	2438/2950	3306/4000	28.3	437	483/531	1585/1744	3	89.3/114.7	3.5/4.5	TRI	15FT	40
SHOTGUN	12 GAUGE 00 SHOT	2078/2415	2818/3275	42	650	366/403	1200/1320	3	89.3/114.7	3.5/4.5	TRI	15FT	40

MAX IS 110%  
OF MIN VELOCITY

TESTING	SAMPLES	RANGE	TESTING	INDOOR	OUTDOOR	WITNESS	WITNESS	5 SHOT
	12" X 12"	15 FEET	TEMP	MATERIALS	MATERIALS	PLATE	PLATE	PATTERN
	305 X 305mm	4.6m	LEVELS	1-8 NON MET	NON MET	CORRUGATE	CORRUGATE	UL,UR,LR
			METALS	LEVEL 1-5	LEVEL 1-5	CARDBOARC	18" BEHIND	LL,C
			67 / 77 F	1 SAMPLE	SIDE A	125" THK	457mm	+/- 1/2"
			19 / 25 C	55f, 13C	-26F+/-5	3.2mm		
				1 SAMPLE	-32C+/-3			
				95F, 35C	SIDE B			
				3 HOURS	72F+/-5			
				SOAK	22C+/-3			
					1 SAMPLE			
					120F+/-5			
					49C+/-3			
					3 HOURS			
					SOAK			

#### advantages of APGBT standars

#### compatibility with APGBT standars

- 1) primary ammunition types
- 2) same number of test samples for qualification
- 3) number of hits and hit spacing
- 4) test conditions/set up similar
- 5) compatible velocities

- 1) APGBT includes 4 common types of soviet ammunition (soviet weapons/ammunitions are commonly used in terrorist activities and random street crime)
- 2) APGBT stipulations multiple ammunitions for select levels (example: FAV standard, AP)  
[this stipulation puts a higher bunder on APGBT]  
[creates a higher level of sefety for our costumers]  
[you **can not** assume 1 bullet is more lethal than another]
- 3) APGBT includes SS 109 and M 193 protection
- 4) APGBT specifies number of test samples for qualification (3)  
(they do not call out the number of test samples for qual)