Ballistic Standards

Defenshield Inc.

Standard	Class	Caliber	Weight (gr.)	Min Vel (fps)	Max Vel (fps)	Shots	Range (ft.)	Notes
DS- 110 SERIES								
NIJ	I	0.22 LR	40	1010	1090	5	16.4	
NIJ	I	0.38 Spec	158	800	900	5	16.4	
NIJ	II-A	9 x 19 (LV)	124	1050	1130	5	16.4	
DIN	C1-SF	9 x 19 (HV)	124	1165	1198	3	9.84	
NIJ	II	9 x 19 (HV)	124	1135	1215	5	16.4	
UL	1	9 x 19 (HV)	124	1175	1293	3	15	
DS- 130 SERIES [Large Caliber Pistols, Carbines and SMGs]								
ASTM		0.38 Super	130	1230	1330	3	25	
NIJ	II-A	0.357 Mag	158	1200	1300	5	16.4	E
BSI	GI	0.357 Mag	158	1427	1526	3	9.84	
DIN	C2-SF	0.357 Mag	158	1362	1394	3	9.84	
UL	2	0.357 Mag	158	1250	1375	3	15	
ASTM		0.44 Mag	240	1400	1500	3	25	E
BSI	G2	0.44 Mag	240	1496	1594	3	9.84	
DIN	C3-SF	0.44 Mag	240	1427	1460	3	9.84	
NIJ	III-A	0.44 Mag	240	1350	1450	5	16.4	
UL	3	0.44 Mag	240	1350	1450	3	15	
ASTM	SMG	9 x 19 (HV)	124	1350	1450	3	25	E
BSI	GO	9 x 19 (HV)	115	1280	1378	3	9.84	
NIJ	III-A	9 x 19 (HV)	124	1350	1450	5	16.4	
SD	Minimium	9 x 19 (HV)	115	1350	1450	3	20	F
UL	6	9 x 19 (HV)	124	1400	1540	5	15	
DS- 180 SERIES [Center Fire Rifles]								
SD	Rifle	5.56 x 45 (M193)	55	3135	3235	1	20	
UL	7	5.56 x 45	55	3080	3388	5	15	F
UL	5	7.62 x 51 (M80)	150	2750	3025	1	15	
ASTM	Rifle	7.62 x 51 (M80)	147	2750	2850	3	25	
BSI	R2	7.62 x 51 (M80)	147	2674	2772	3	32.81	E
DIN	C4-SF	7.62 x 51 (M80)	147	2575	2608	3	32.81	
NIJ	III	7.62 x 51 (M80)	147	2700	2800	5	49.2	
SD	Rifle	7.62 x 51 (M80)	147	2700	2800	1	30	
UL	8	7.62 x 51 (M80)	150	2750	3025	5	15	F
UL	Shotgun	12 Ga. Slug	437	1585	1743	3	15	
SD	Rifle	5.56 x 45 (M855)	63	2950	3050	1	20	
DS- 190 SERIES [Center Fire Rifles, Armor Piercing]								
DIN	C5-SF	7.62x51 (AP M61)	150	2625	2657	3	82.02	
SD	Rifle	7.62x51 (AP M61)	150	2700	2800	3	20	F
ASTM	Rifle	.30-06 (AP M2)	165	2725	2825	3	25	E
NIJ	IV	.30-06 (AP M2)	166	2800	2900	1	49.2	
SD	Rifle	.30-06 (AP M2)	165	2800	2900	3	20	F

Information listed for comparison ONLY, contact applicable standards and testing labs for current information or certifications.

Standards:

*ASTM—American Society for Testing and Materials, Test Method for Security Glazing Materials and Systems, F 1233.

*NIJ—National Institute of Justice, U.S. Department of Justice, Ballistic Resistant Protective Materials, NIJ Standard—0108.01, September 1985.

*SD—U.S. Department of State, Ballistic Resistance of Structural Materials (Opaque and Transparent) Test Procedures and Acceptance Criteria, SD-STD-02.01, March 1986.

*BSI—British Standards Institution, Security Glazing, Part 1. Specification for Bullet-Resistant Glazing for Interior Use, BS 5051, October 1973.

*DIN—Deutsches Institut für Normung e. V., Security Glazing, DIN 52 290, Part 2, May 1981.

The various standards specify different locations to measure the bullet velocity. They are as follows: ASTM—15 ft from weapon muzzle; BSI—strike face of the target; DIN—8.20 ft from weapon muzzle; NIJ—6.60 ft from weapon muzzle; and SD—10 ft from strike face of the target. For meeting the various velocity measurement requirements, the use of custom (special) powder loads may be required.

Abbreviations: AP—Armor Piercing; HV—Higher Velocity; LD—Lead; LR—Long Rifle; LV—Lower Velocity; Mag—Magnum; Spec—Special; SRP—Soft Round Point; M2, M61, M80, M193—U.S. Military Ammunition, Full Metal Jacket, Spire Point.

E-Minimum number of shots.

F-Minimum of three shots required for the glazing and six shots required for other parts of the assembly.

Not responsible for errors or omissions. Please consult actual source documents for current specifications.