

.300 BLK SWISS P Final

13.0 g / 200 gr

Outstanding stopping power avoids collateral damage due to total bullet disintegration

Provides a minimal acoustic profile to maintain the element of surprise

Physical and ballistic characteristics ensure subsonic flight in all environmental conditions

Best first hit probability



RUAG SWISS 
The Sniper's Choice

Application

The calibre .300 BLK was specifically designed for subsonic shooting in urban terrain. The proportion of the chamber size and the amount of powder are optimised to ensure constant pressure build up and first hit probability.

The unique bullet made from pressed pellets instantaneously disintegrates when hitting a soft target even at subsonic speed. The penetration depth of the fragments is extremely small, minimising the risk of over penetration and increasing the safety of bystanders.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

Cartridge

.300 BLK

projectile	JPP, 13.0 g / 200 gr
projectile material	tin plated tombac jacket, pressed lead pellets
ballistic coefficient G1	0.1643 (ICAO)
primer / propellant	SINOXID / double base powder
case material	CuZn - alloy
cartridge weight	21.0 g

Performance

term of reference	C.I.P.
mean chamber pressure	max. 3 700 bar (53 664 psi) (21°C)
muzzle velocity	315 m/s (1 033 fps) 450 mm barrel
muzzle energy	645 J
accuracy at 50 m	$S_a \leq 21$ mm

Packaging

20 rds/cardboard box, 600 rds/cardboard box

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Ballistic Coefficients	315 m/s	200 m/s	50 m/s
Drag Coefficient	0.6318	0.5264	0.4978
Ballistic Coefficient G1	0.1643	0.1318	0.1364
Ballistic Coefficient G7	0.0891	0.0764	0.0794

Ballistic Coefficients	1033 fps	656 fps	164 fps
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Trajectory	0 m	20 m	40 m	60 m	80 m	100 m	120 m	140 m	160 m	180 m	200 m	220 m	240 m
Velocity [m/s]	315	306	298	290	283	276	269	262	255	249	243	237	231
Energy [J]	645	610	577	547	519	493	469	446	424	404	384	366	348
Time of flight [ms]	0	64	131	199	268	340	414	489	566	646	727	810	896
Wind drift [cm]	0	0	2	4	7	11	16	22	29	37	46	56	67

Trajectory	0 yds	20 yds	40 yds	60 yds	80 yds	100 yds	120 yds	140 yds	160 yds	180 yds	200 yds	220 yds	240 yds
Velocity [fps]	1033	1007	982	959	936	914	893	873	853	834	815	797	779
Energy [J]	645	613	583	555	529	505	482	460	439	420	401	384	366
Time of flight [ms]	0	59	119	181	244	309	375	443	512	583	655	729	804
Wind drift [inch]	0	0.16	0.62	1.37	2.42	3.77	5.43	7.38	9.65	12.23	15.14	18.36	21.93

Test barrel length: 450 mm / Twist rate: 8" / Crosswind velocity: 5 m/s Reference conditions: 15 °C/59 °F / 1013.25 hPa / 0% humidity / 0 m/ft above sea level

Trajectory	cm	20 m	40 m	60 m	80 m	100 m	120 m	140 m	160 m	180 m	200 m	220 m	240 m
Rifle zeroed at 20 m	x	-4	-12	-23	-40	-61	-87	-119	-156	-200	-249	-305	
40 m	2	x	-6	-16	-30	-50	-74	-104	-139	-180	-228	-282	
60 m	4	4	x	-8	-21	-38	-61	-89	-122	-161	-206	-259	
80 m	6	8	6	x	-10	-26	-46	-72	-103	-140	-183	-234	
100 m	8	12	12	9	x	-13	-31	-55	-84	-119	-160	-209	
120 m	10	17	19	18	11	x	-15	-37	-63	-97	-135	-182	
140 m	13	21	26	27	23	14	x	-19	-43	-74	-110	-154	
160 m	15	26	33	36	34	28	16	x	-23	-51	-85	-127	
180 m	17	31	40	46	46	42	33	19	x	-27	-59	-98	
200 m	20	36	48	56	59	58	52	40	23	x	-30	-66	

Trajectory	inch	20 yds	40 yds	60 yds	80 yds	100 yds	120 yds	140 yds	160 yds	180 yds	200 yds	220 yds	240 yds
Rifle zeroed at 20 yds	x	-1.25	-3.82	-7.67	-13.12	-19.91	-28.52	-38.60	-50.71	-64.41	-80.36	-98.11	
40 yds	0.65	x	-1.93	-5.16	-9.98	-16.14	-24.12	-33.57	-45.05	-58.13	-73.45	-90.57	
60 yds	1.28	1.27	x	-2.65	-6.84	-12.37	-19.73	-28.54	-39.40	-51.85	-66.54	-83.03	
80 yds	1.97	2.65	2.03	x	-3.38	-8.22	-14.89	-23.01	-33.18	-44.93	-58.94	-74.73	
100 yds	2.66	4.03	4.10	2.88	x	-4.08	-10.05	-17.48	-26.95	-38.02	-51.34	-66.44	
120 yds	3.35	5.42	6.17	5.65	3.53	x	-5.21	-11.95	-20.73	-31.11	-43.73	-58.15	
140 yds	4.11	6.92	8.44	8.67	7.30	4.59	x	-5.92	-13.95	-23.57	-35.44	-49.10	
160 yds	4.86	8.43	10.70	11.68	11.07	9.12	5.35	x	-7.16	-16.03	-27.15	-40.05	
180 yds	5.68	10.07	13.15	14.95	15.15	14.02	11.06	6.64	x	-7.86	-18.16	-30.25	
200 yds	6.50	11.70	15.60	18.22	19.24	18.92	16.78	13.18	7.54	x	-9.18	-20.45	

Maximum range: 1899 m / 2077 yds

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Diagram of different zero ranges

