

# .300 BLK SWISS P Target

## 14.3 g / 220 gr

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 due to an optimised powder chamber



**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 highly precise loading technique allows a cartridge load very close to the sound barrier, but without risking a supersonic bang. Even at subsonic speed the heavy subsonic bullet provides enough energy to achieve a good terminal target effect.

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	HPBT, 14.3 g / 220 gr
projectile material	tombac jacket, lead core
ballistic coefficient G1	0.4166 (ICAO)
primer / propellant	SINOXID / double base powder
case material	CuZn - alloy
cartridge weight	22.3 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	709 J
accuracy at 100 m	$S_a \leq 10$ 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	0.2735	0.1143	0.1090
Ballistic Coefficient G1	0.4166	0.6647	0.6818
Ballistic Coefficient G7	0.2249	0.3854	0.3971

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	312	308	305	302	299	296	294	291	288	286	283	281
Energy [J]	709	694	680	666	653	640	628	616	605	594	584	574	565
Time of flight [ms]	0	64	128	194	259	326	393	461	529	599	668	739	809
Wind drift [cm]	0	0	1	2	3	4	6	9	12	14	17	20	25

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	1023	1013	1003	993	984	975	967	958	950	942	935	928
Energy [J]	709	695	681	668	655	643	632	621	610	600	590	580	572
Time of flight [ms]	0	59	118	178	238	298	359	420	481	543	605	667	730
Wind drift [inch]	0	0.08	0.32	0.73	1.01	1.43	2.04	2.86	3.91	4.91	5.52	6.63	7.86

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	-39	-59	-83	-112	-144	-181	-222	-268	
40 m	2	x	-6	-16	-30	-48	-70	-96	-127	-162	-201	-245	
60 m	4	4	x	-8	-20	-36	-56	-81	-110	-143	-180	-222	
80 m	6	8	6	x	-10	-24	-42	-64	-91	-122	-157	-197	
100 m	8	12	12	8	x	-12	-28	-49	-74	-103	-136	-174	
120 m	10	16	18	16	11	x	-14	-32	-55	-82	-113	-149	
140 m	12	20	24	24	20	12	x	-17	-37	-62	-92	-126	
160 m	14	24	30	32	31	25	14	x	-19	-42	-69	-100	
180 m	16	28	37	41	41	37	29	17	x	-21	-46	-75	
200 m	18	33	43	49	52	50	44	34	19	x	-23	-50	

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	-3.83	-7.69	-12.89	-19.45	-27.35	-36.63	-47.32	-59.39	-72.90	-87.85	
40 yds	0.65	x	-1.94	-5.18	-9.75	-15.68	-22.95	-31.60	-41.66	-53.11	-65.99	-80.29	
60 yds	1.28	1.27	x	-2.67	-6.61	-11.91	-18.55	-26.58	-36.01	-46.83	-59.08	-72.75	
80 yds	1.97	2.65	2.02	x	-3.15	-7.76	-13.72	-21.05	-29.79	-39.92	-51.47	-64.46	
100 yds	2.60	3.91	3.90	2.61	x	-3.99	-9.32	-16.02	-24.13	-33.63	-44.56	-56.92	
120 yds	3.29	5.29	5.98	5.38	3.45	x	-4.48	-10.49	-17.91	-26.72	-36.96	-48.62	
140 yds	3.92	6.55	7.86	7.89	6.59	3.93	x	-5.47	-12.25	-20.44	-30.05	-41.08	
160 yds	4.61	7.93	9.94	10.66	10.05	8.07	4.76	x	-6.03	-13.52	-22.44	-32.81	
180 yds	5.30	9.31	12.01	13.42	13.50	12.22	9.60	5.59	x	-6.61	-14.84	-24.51	
200 yds	5.99	10.69	14.09	16.19	16.96	16.37	14.44	11.12	6.41	x	-7.24	-16.22	

Maximum range: 4535 m / 4959 yds

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## Diagram of different zero ranges

