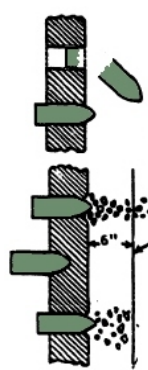


122mm APBC BR-471B Impact Velocity Penetration Comparisons

range*	Impact V_c	Penetration Criterion	
		US Protection	USSR CP
meters	m/s	mm	mm
0	795	208	167
200	779	197	162
400	764	187	158
600	748	179	152
800	733	168	147
1000	718	160	142
1200	703	152	137
1400	688	143	132
1600	674	137	128
1800	660	130	124
2000	646	124	120
2200	632	118	116
2400	618	114	114
2600	605	109	112
2800	592	105	110
3000	579	102	108



CERTIFIED CRITERION

COMPLETE PENETRATION CP(N)
80% CHANCE 75% OF MASS

PARTIAL PENETRATION PP(N)

PROTECTION CRITERION

COMPLETE PENETRATION CP(P)

PARTIAL PENETRATION PP(P)

PARTIAL PENETRATION PP(P)
(Witness material dented but not perforated; nose of projectile through plate)

The US Protection penetration criteria of 363 BHN (est.) armor 1972 std of 122mm A-19. Vs. 1960 DDR Certified Penetration criteria of the Soviet firing table 122mm D-25 gun from WWII. The results show there is not a constant normalizing multiplier to convert one to the other as an inversion takes place (shaded area) at ~618 m/s.

Note-This is a comparison of penetration at stated impact velocities.

* The range is per the Soviet 122mm D-25 and is about 7.7% less than the US ballistics calculations.