

Armor Examples

Vehicle Armor	DEF	Speed	mass, kg
M60 glacis 12cm thick (26.7cm LOS) [hardened steel]	30 (32)	S2	n.a.
T72 glacis 20cm thick (60cm LOS) [titanium]	35 (41)	S2	n.a.
M1 gun mantlet [chobham]	36 (38)	S3	n.a.
M1A1+ gun mantlet [uranium ceramic laminate]	39 (42)	S3	n.a.
Iowa hull side armor [31cm laminate hardened steel]	35	S2	n.a.
Yamato turret front armor [65cm laminate hardened steel]	38	S2	n.a.
Sherman tank max. 8cm thick [hardened steel]	26	S2	n.a.
Tiger II tank max. 18.5cm thick [hardened steel]	30	S2	n.a.
B-29 wing skin [aircraft aluminum]	16	S1	n.a.
M113 front [armor aluminum]	19	S1	n.a.
M113 side [armor aluminum]	13	S1	n.a.
BMP [hardened steel]	19	S2	n.a.
van body: 32 layer Spectra fibreglas (4 m long, 2m wide, 2m high, all faces same armor)	18	S1	422
1950's sedan passenger compartment sides	7	S2	n.a.
1990's sedan passenger compartment sides	~4	S2	n.a.
windshield glass (vertical)	3	S1	n.a.
lexan canopy, 1.0 m dia. x 2.0 m long, 2.5 sq. m., 1 cm thick	10	S1	39.7

Building Materials	DEF	Speed	mass, kg
8" thick unreinforced concrete (standard civil construction material)	17	S1	n.a.
2" thick cheap wood	8	S1	n.a.
1/2" thick plywood	3	S1	n.a.
12" thick dry sand or gravel (typ. sandbag)	20	S1	n.a.
1/8" thick early mild steel	7	S2	n.a.

Body Armor	DEF	Speed	mass, kg
futuristic tac squad helmet, fully enclosing	15 [4,5]	S1	1.5 total
[.4 cm Spectra fibreglas head, 3mm lexan face]	5 [3]	S1	
Vietnam-era helicopter crew armor vest	16 [9-12]	S4	10.1
[3mm B4C, backed by fibreglas, ballistic nylon cover]			
M69 flak jackets (Vietnam to early 1980's)	12 [9-12]	SØ	3.8
[10 to 14 layers ballistic nylon]			
PASGT vest (current U.S. military infantry vest) [~18 layers kevlar]	14 [9-12]	SØ	4.1
Titanium/nylon composite vest (Vietnam Riverine & SEALS)	11 [9-12]	S2	4
[0.8mm titanium + 7 layers ballistic nylon]			
M1 helmet [steel]	11	S2	1.2 total
PASGT helmet [kevlar compound fibreglas]	18	S1	1.7 total
NIJ Level I	5	SØ	n.a.
NIJ Level I+	10	SØ	n.a.
NIJ Level II-A	11	SØ	n.a.
NIJ Level II	13	SØ	n.a.
NIJ Level III	18 - 20	SØ	n.a.
NIJ Level IV	20	S2	n.a.