



## SWEBOR ARMOR 500 BALLISTIC PROTECTION STEEL

Swebor Armor 500 is a low alloyed ballistic protection steel. Swebor Armor 500 is available in thickness 2,0-16,0 mm. Low carbon and manganese content in combination with its very carefully controlled heating, rolling and cooling sequences gives Swebor Armor 500 its good combination of hardness, high strength, weldability and ballistic protection ability.

### APPLICATIONS

Swebor Armor 500 can be used in most protection applications. Swebor Armor 500 has excellent ballistic protection properties in combination with high hardness and strength but still remains easy to handle in the workshop. Recommended thickness for each protection level is shown in the table below. To verify actual ballistic protection properties, test must be performed for each application.

### DIMENSION RANGE

Swebor Armor 500 is available in the range of sizes shown in the table below in rolled condition with mill edge.

THICKNESS mm	WIDTH mm	LENGTH mm	NORMAL STOCK DIMENSION mm
2,00 - 2,49	1000 - 1150*	1500 - 7000	1000x3000
2,50 - 2,99	1000 - 1300*	1500 - 4000	1000x3000
3,00 - 6,50	1000 - 1550	1500 - 8000	1500x3000
7,00 - 16,00	1000 - 1550	1500 - 6100	1500x3000

\*1500 mm width might be possible. Discussion Required.

### WIDTH TOLERANCE

0 + 20 mm

### FLATNESS

Guaranteed maximum deviation of flatness is 6,0mm/m.

### CHEMICAL COMPOSITION

	C %	Si %	Mn %	P %	S %	S + P %	Others %
Max.	0,32	0,60	1,60	0,020	0,010	0,025	Cr and B





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THREAT	FIRING DISTANCE	IMPACT VELOCITY (m/s)	THICKNESS SWEBOR ARMOR 500	PROTECTION LEVEL/ CLASS
Handgun 9 mm Para. / FJ/RN/SC	5 m	415 ± 10	2,0 mm	EN 1522 FB2 VPAM 3
Handgun .357 Mag. / FJ/CB/SC	5 m	430 ± 10 425 ± 15	2,5 mm	EN 1522 FB 3 NIJ Level II
Handgun .44 Mag. / FJ/FN/SC	5 m	440 ± 10 426 ± 15	3,0 mm (2,5mm - consultation required)	EN 1522 FB4 NIJ Level IIIA VPAM 4
Assault Rifle 7.62 mm x 39 (Kal.) FJ/PB/FeC3	10 m	720 ± 10	4,0 mm	VPAM 6
Assault Rifle 7.62 mm x 51 (NATO ball) / FJ/PB/SC	10 m	830 ± 10 838 ± 15	6,0 mm	EN 1063 BR6 NIJ Level III
Assault Rifle 5.56 mm x 45 (SS 109) FJ/PB/SCP1	10 m	950 ± 10	6,5 mm	EN 1522 FB6 (Plus 7,62x51 BR6) VPAM 7
7.62 x 51 Ball FMJ	10 m	853 ± 15 (up to 880m/s)	8,0 mm	Mexican Level D
Assault Rifle 5.56 mm x 45 (M193 / SS92)FJ/PB/HC1	10 m	990 ± 10	9,5 mm	SS92/M193
Assault Rifle 7.62 mm x 39 API BZ / FMJ/PB/HC1	10-30 m	740 ± 10	13,0 mm	VPAM 8
Assault Rifle 7.62x 51 .308WIN FMJ/PB/HC	10 m	820±10	14,5 mm	EN 1522 FB7 VPAM 9

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