

ARMOX™

Armour Plate for Civil Protection

SSAB Oxelösund AB, which is a member of the Swedish steel group *SSAB Svenskt Stål AB*, develops, manufactures and markets heavy plate. Our specialities are ARMOX armour plate, HARDOX wear plate and WELDOX extra high strength structural steel plate.

ARMOX armour plate is used for military applications, and in today's world it is also used for civil applications.

Our armour plate ARMOX 500T (ARMOX 500S) has excellent ballistic properties in combination with high hardness and strength, but still remains easy to handle in the workshop.

ARMOX is trademark for armour plate manufactured by SSAB Oxelösund AB.

ARMOX 500T
(ARMOX 500S)
in banks for
counters, doors
and rising screens
for improved safety
and comfort.



ARMOX 500T
(ARMOX 500S)
in cash transport
vehicles for better
protection of
people and money.



ARMOX 500T
(ARMOX 500S)
in diplomatic
vehicles for safer
transportation.



ARMOX 500T
(ARMOX 500S)
in mineclearing
vehicles for a safer
environment.



Technical specifications of ARMOX 500T (ARMOX 500S) armour plate

Hardness range 480-540 HB

Chemical composition

C	Mn	Cr	Ni	Mo	Carbon equivalent
max. 0.30%	max. 1.20%	max. 1.00%	max. 1.30%	max. 0.70%	Typical value 0.67



Protection level	Weapon Ammunition	Weight g	Muzzle velocity, m/sec.	Range m	Rec. plate thickness, mm
FB 3	Handgun				
	.357 Magnum FJ / CB / SC	10.2	430	5	3.0
FB 4	Handgun				
	.357 Magnum FJ / CB / SC	10.2	430	5	3.0
	.44 Magnum FJ / FN / SC	15.6	440	5	3.0
FB 5	Rifle M16 A2				
	5.56 x 45 FJ / PB / SCP1 (SS109)	4.0	950	10	6.0
FB 6	Rifle M16 A2, FN FAL				
	5.56 x 45 FJ / PB / SCP1 (SS109)	4.0	950	10	6.0
	7.62 x 51 FJ / PB / SC (NATO Ball)	9.5	830	10	6.0
FB 7	Rifle FN FAL				
	7.62 x 51 FJ / PB / HC1 (NATO AP)	9.8	820	10	14.5
Unclassified	Rifle AK 47, G3, M16 A2				
	7.62 x 39 Ball Type (M43)	8.0	720	10	4.0
	7.62 x 51 FJ / PB / SC (NATO Ball)	9.5	800	10	5.5
	5.56 x 45 Ball SS 92 / M193	3.56	970	10	10.0
	7.62 x 39 API	7.65	740	10	13.0



Welding

With its low carbon content ARMOX 500T possesses excellent weldability. Filler material and welding procedures that give the lowest possible hydrogen levels give the best results.



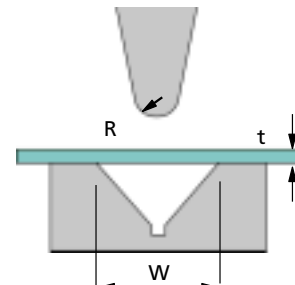
Cutting

Cutting by plasma, laser or gas at room temperature up to 15 mm in thickness, is exactly the same as with normal steel plate.



Drilling

Drilling can be done by using high speed drills with cobalt reinforced centres, stable machines and correct cutting data.



Bending

Bending is also possible using the following data:

$$R/t = 6$$

$$W/t = 20$$

ARMOX 500T is available from stock in these sizes: (ARMOX 500S)

- 3 x 2000 x 4000 mm
- 4 x 2000 x 5000 mm
- 6 x 2400 x 6000 mm
- 8 x 2400 x 6000 mm
- 10 x 2400 x 6000 mm
- 12 x 2400 x 6000 mm
- 13 x 2400 x 6000 mm
- 14.5 x 2400 x 6000 mm

For other thicknesses please contact our Marketing Dept.



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