SSAB



RAMOR 500

General Product Description

The ballistic protection steel with high hardness

Ramor $^{\text{TM}}$ 500 is a ballistic protection steel of high hardness, available in thicknesses of 2-30 mm (0.079-1.18") and hardnesses of 490-560 HBW.

Ramor 500 is available as cut-to-length sheet in thicknesses of 2-6.5 mm (0.079-0.256") and as plate in thicknesses of 6-30 mm (0.236-1.18"). Delivered in quenched condition, Ramor 500 is not intended for further heat treatment.

Dimension Range

Ramor 500 is available as cut-to-length sheet in thickness between 2.0- 6.50 mm, and as plate in thickness 6.0- 30.0 mm.

Mechanical Properties

Thickness (mm)	Hardness (HBW)
2.0- 30	490-560

Mechanical Testing

Brinell hardness test according to EN ISO 6506-1 on each heat treatment individual/coil.

Hardness is measured on a milled surface 0.3-2 mm below plate surface.

Chemical Composition (ladle analysis)

C	Si	Mn	P	S	Cr	Ni	Mo	B
(max %)								
0.35	0.70	1.50	0.015	0.010	1	2	0.70	

The steel is grain-refined. Phosphorous and sulphur are not intentionally alloying elements.

Tolerances

More details are given on www.ssab.com



RAMOR 500

Thickness

Cut Length		
Product Type	Thickness (mm)	Tolerance (Min / Max)
Cut Length	2.00- 4.00	- 0.0 / + 0.36
Cut Length	4.01- 5.00	- 0.0 / + 0.40
Cut Length	5.01- 6.00	- 0.0 / + 0.42
Cut Length	6.01- 6.50	- 0.0 / + 0.44
Heavy Plate		
Product Type	Thickness (mm)	Tolerance (Min / Max)
Heavy Plate	6.0- 7.9	- 0.0 / + 0.8
Heavy Plate	8.0- 14.9	- 0.0 / + 1.0
Heavy Plate	15.0- 24.9	- 0.0 / + 1.2

-0.0/+1.4

Length and Width

Heavy Plate

Sheets are delivered with mill edges cut as standard.

• Tolerances conform to EN 10051 or to SSAB's standard after agreement.

Plate delivered according to SSAB's dimension program.

- Tolerances conform to EN 10029 or to SSAB's standard after agreement
- - Dimensional tolerances for plate with mill edge according to special agreement.

25.5-30.0

Flatness

Tolerances according to SSAB's flatness tolerances which are more restrictive than EN 10029 Class N (steel type L).

Cut Length		
Product Type	Thickness (mm)	1000 ruler (mm)
Cut Length	2.00- 4.00	6
Cut Length	4.01- 5.00	6
Cut Length	5.01- 6.00	6
Cut Length	6.01- 6.50	6
Heavy Plate		
Heavy Plate Product Type	Thickness (mm)	1000 ruler (mm)
		1
Product Type	(mm)	(mm)
Product Type Heavy Plate	(mm) 6.0- 7.9	(mm) 6



RAMOR 500

Shape

For Plate tolerances according to EN 10029. For Sheet tolerances according to EN 10051.

Surface Properties

According to EN 10 163-2 Class B Subclass 3.

Delivery Conditions

Ramor 500 is delivered in quenched condition.

Fabrication and Other Recommendations

Welding, bending and machining

For information concerning welding and fabrication, see SSAB's brochures on www.ssab.com or consult Tech Support, techsupport@ssab.com.

Ramor 500 is not intended for further heat treatment. If Ramor 500 is heated above 180 °C after delivery from SSAB no guarantees for the properties are given.

Appropriate health and safety precautions must be taken when cutting, welding, grinding or otherwise working on the product. Grinding, especially of primer coated plates, may produce dust with high particle concentration.



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