

### General Product Description

The ballistic protection steel with extra-high hardness

Ramor® 600 is a ballistic protection steel of extra-high hardness, nominal 600 HBW, available in thicknesses of 3.0 - 6.0 mm (0.118-0.236").

Ramor® 600 is available as cut-to-length sheet in thicknesses of 3.0 - 6.0 mm (0.118-0.236"). Delivered in quenched condition, Ramor® 600 is not intended for further heat treatment.

### Dimension Range

Ramor 600 is available as cut-to-length sheet in thickness between 3.0 - 6.0 mm.

### Mechanical Properties

	Thickness (mm)	Hardness (HBW)
Ramor® 600	3.0 - 6.0	570 - 640

### 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 (max %)	Si (max %)	Mn (max %)	P (max %)	S (max %)	Cr (max %)	Ni (max %)	Mo (max %)	B (max %)
0.40	0.70	1.5	0.015	0.010	1.50	2.50	0.80	0.005

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

## Tolerances

More details are given on [www.ssab.com](http://www.ssab.com).

### Thickness

Product Type	Thickness (mm)	Tolerance (mm)
Sheet	3.00 - 4.00	- 0.0 / + 0.36
Sheet	4.01 - 5.00	- 0.0 / + 0.40
Sheet	5.01 - 6.00	- 0.0 / + 0.42

### Length and Width

Sheets are delivered with mill edges cut as standard.

- Tolerances conform to EN 10 051 or to SSAB's standard after agreement.

### Shape

Tolerances according to EN 10051.

### Flatness

Tolerances according to SSAB's flatness tolerances which are more restrictive than EN 10051.

Product Type	1000 ruler (mm)
Sheet	6

### Surface Properties

According to EN 10163-2 Class B Subclass 3.

### Delivery Conditions

Ramor 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](http://www.ssab.com) or consult Tech Support.

#### Welding, bending and machining

For information concerning welding and fabrication, see SSAB's brochures on [www.ssab.com](http://www.ssab.com) or consult Tech Support, [techsupport@ssab.com](mailto:techsupport@ssab.com).

Ramor 600 is not intended for further heat treatment. If Ramor 600 is heated above 150 °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.

### Contact Information

[www.ssab.com/contact](http://www.ssab.com/contact)