



ARMOX 600T

General Product Description

Extra-high-hardness armor with very good resistance against penetration
 Armox® 600T is used as an add-on protection plate or where weight is critical.
 Armox 600T is available in thicknesses between 4 and 20 mm with a guaranteed hardness range of 570-640 HBW.
 Benefits of Armox 600T include:

- Market-leading steel protection
- Superior workshop properties
- Wide product range – optimized solutions
- Perfect hardness/toughness balance, for combined penetration and blast protection
- Expertise in ballistic protection from SSAB

Armox 600T is not intended for further heat treatment.

Dimension range

Armox 600T is available in thicknesses between 4.0 and 20.0 mm. Other dimensions to be agreed with SSAB.

Mechanical Properties

Plate thickness (mm)	Hardness (HBW)	Charpy-V -40°C ¹⁾ 10x10 mm test specimen ²⁾ Min. (J)
4- 20	570- 640	12

¹⁾ Average of three tests. Transverse to rolling direction. Single value min. 70% of specified average.

²⁾ For plate thicknesses under 12 mm sub-size Charpy-V specimen are used. The specified minimum value is then proportional to the specimen cross-section.

Mechanical Testing

Brinell hardness test according to EN ISO 6506 on each heat treatment individual.
 Charpy impact test according to EN ISO 148 on each heat and thicknesses from 6 mm.

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Chemical Composition (ladle analysis)

C *) (max %)	Si *) (max %)	Mn *) (max %)	P (max %)	S (max %)	Cr *) (max %)	Ni *) (max %)	Mo *) (max %)	B *) (max %)
0.47	0.70	1.00	0.010	0.005	1.5	3.00	0.7	0.005

The steel is grain-refined. *) Intentional alloying elements.

Tolerances

More details are given in SSAB's brochure 41-General product information Strenx, Hardox, ArmoX and Toolox-UK or on www.ssab.com.

Thickness

Heavy Plate Plate thickness (mm)	Tolerances (mm)
4.0- 12.9	- 0.0 / + 0.6
13.0- 19.9	- 0.0 / + 0.8
20.0	- 0.0 / + 1.0

Length and Width

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

Shape

Tolerances according to EN 10 029

Flatness

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

Surface Properties

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

Delivery Conditions

The delivery condition is QT (Quenched and Tempered). Delivery requirements can be found in SSAB's brochure 41-General plate product information Strenx, Hardox, ArmoX and Toolox-UK or www.ssab.com.

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Fabrication and Other Recommendations

Welding, bending and machining

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

ArmoX 600T is not intended for further heat treatment. If ArmoX 600T is heated above 170 °C after delivery from SSAB no guarantees for the properties of the steel are given

Nitriding or surface coating may be carried out if the temperature is below 170 °C.

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



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