

General Product Description

SSAB's toughest, ultra-hard protection plate.

ArmoX[®] Advance is SSAB's toughest appliqué (add-on) protection plate for use where component weight reduction is essential. It is available in thicknesses between 4.0 and 7.9 mm, and not intended for further heat treatment.

Dimension Range

ArmoX[®] Advance is available in thicknesses between 4.0 and 7.9 mm. Other dimensions to be agreed with SSAB.

Mechanical Properties

Thickness (mm)	Hardness (HRC)
4.0 - 7.9	58 - 63

Mechanical Testing

Rockwell hardness test EN ISO 6508-1. Each treatment individual.

Ultrasonic testing

According to EN 10160 Class E₃S₃.

Chemical Composition (ladle analysis)

C ^{*)} (max %)	Si ^{*)} (max %)	Mn ^{*)} (max %)	P (max %)	S (max %)	Cr ^{*)} (max %)	Ni ^{*)} (max %)	Mo ^{*)} (max %)	B ^{*)} (max %)
0.48	0.70	1.00	0.010	0.003	1.5	3.0	0.70	0.005

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

Tolerances

More details are given in SSAB brochure Armox® Guarantees or on www.ssab.com.

Thickness

Thickness (mm)	Tolerance (mm)
4.0 - 7.9	- 0.0 / + 0.6

Tolerances according to Armox® Thickness Guarantees.

Armox® Guarantees meet the requirements of EN 10029 Class C, but offers narrower tolerances.

Length and Width

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 10029.

Flatness

Flatness tolerance for thicknesses between 4.0 – 6.9 mm are according to Armox® flatness guarantee, which are more restrictive than EN 10029 Class N (steel type L). For thicknesses between 7.0 – 7.9 mm, the maximum accepted flatness deviation is 8 mm/m.

Surface Properties

According to EN 10163-2 Class B, Subclass 3.

Delivery Conditions

The delivery condition is Q (Quenched).

Delivery requirements can be found in SSAB's brochure Armox® Guarantees or www.ssab.com

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.

Armox® Advance is not intended for further heat treatment. If Armox® Advance is heated above 90 °C after delivery from SSAB no guarantees for the properties of the steel are given.

It could be heated up to 120 °C but no more than 20 minutes.

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.

Contact Information

www.ssab.com/contact