ARMOX®
PROTECTION PLATE

Armox Advance

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

Plate 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 ISO 10 160 Class E_3 S_3.

Chemical Composition (ladle analysis)

C *) (max %)	Si *) (max %)	Mn *) (max %)	P (max %)	S (max %)	Cr *) (max %)	Ni *) (max %)	Mo *) (max %)	B *) (max %)
0.47	0.7	1.0	0.010	0.003	1.5	3.0	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

Plate thickness (mm)	Tolerances (mm)
4.0- 7.9	-0.0 / +0.6

Length and Width

According to SSAB´s dimension program.

- Tolerances conform to EN 10 029 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

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

Surface Properties

According to EN 10163-2 Class B Subclass 3.

SSAB

Delivery Conditions

The delivery condition is Q (Quenched). Delivery requirements can be found in SSAB's brochure 41-General product information Strenx, Hardox, Armox and Toolox-UK 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, techsupport@ssab.com.

Armox Advance is not intened 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 150 °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