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## Hardox 550

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## ABRASION RESISTANT PLATE

Hardox 550 is an abrasion resistant plate with a hardness of 550 HBW, intended for applications requiring very high abrasion resistance in combination with work shop friendliness.

Applications	Liners, bolt on cutting edges, wear strips, skips, chutes, feeders, sieves, cutters, chrushers, shredders, hammers, knives etc.
Chemical Composition (ladle analysis)	Plate C Si Mn P S Cr Ni Mo B CEV CET thickness max
	$CEV = C + \frac{6}{6} + \frac{15}{5} + \frac{15}{15}$ $CET = C + \frac{Mn + Mo}{10} + \frac{Cr + Cu}{20} + \frac{Ni}{40}$ The steel is grain refined.
Hardness	HBW 525 - 575
Impact Properties Typical value for 3/4 inch plate thickness	Testing Impact energy temperature Charpy-V, longitudinal °F Ft-lbs (J) -40 (-40 °C) 22 (30)
Testing	Brinell hardness, HBW according to EN ISO 6506-1, on a milled surface 0.02-0.12 inch below plate surface per heat and 40 metric tons. Tests are made for every variation of $^{5}/_{8}$ inch in the thickness of plates from the same heat.
Delivery Conditions	Q.
Dimensions	Hardox 550 is supplied in plate thicknesses of $^{3}/_{8}$ -2 inch. More detailed information on dimensions is provided in our brochure 41-General Product Information Weldox, Hardox, Armox and Toolox-UK.
Tolerances	Thickness tolerances according to SSAB Oxelösund thickness precision guarantee AccuRollTech™, Class B.  - AccuRollTech™ Class B meets the requirements of ASTM A6 but offers a more narrow tolerance width. More detailed information is given in our brochure 41-General Product Information Weldox, Hardox, Armound Toolox-UK.  Flatness tolerances according to SSAB Oxelösund internal requirements, Class N. The SSAB Oxelösund

requirements for Class N meet the flatness requirements of ASTM A6 but will be att least twice as close.





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Surface Properties	According to ASTM A6.
General Technical Delivery Requirement	According to our brochure 41-General Product Information Weldox, Hardox, Armox and Toolox-UK.
Heat Treatment and Fabrication	Hardox 550 has obtained its mechanical properties by quenching and when necessary by means of subsequent tempering. The properties of the delivery conditon can not be retained after exposed to service or preheating temperatures in excess of 480°F (250°C).  Hardox 550 is not intended for further heat treatment.  For information concerning welding and fabrication, see our brochures on www.hardox.com
	or consult our Technical Customer Service.  Appropriate health and saftey 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. Our Technical Customer Service Department will provide further information on request.

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