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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.

| Applications  | Liners, bolt on cutting edges, wear strips, skips, chutes, fedders, sieves, cutters, chrushers, shredders, hammers, knives etc.  |
|---|--|
| <b>Chemical Composition</b><br>(ladle analysis)                         | Plate C Si Mn P S Cr Ni Mo B CEV CET   thickness max Ni 0,60 0,004 0,72 0,48 0 EEV EEV E + - - 15 - 15   |
| Hardness  | HBW<br>525-575   |
| I <b>mpact Properties</b><br>Typical value for<br>20 mm plate thickness | Test Impact energy<br>temperature Charpy-V, longitudinal<br>°C J<br>-40 (-40 F) 30   |
| Testing   | Brinell hardness, HBW according to EN ISO 6506-1, on a milled surface 0,5—3 mm below plate surface per heat and 40 tons. Tests are made for every variation of 15 mm in the thickness of plates from the same heat.  |
| Delivery Conditions   | Q.   |
| Dimensions  | Hardox 550 is supplied in plate thicknesses of 10–50 mm. 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 <sup>™</sup> .<br>- AccuRollTech <sup>™</sup> meets the requirements of EN 10 029 Class A, but offers more narrow tolerances.<br>More detailed information is given in our brochure 41-General product information<br>Weldox, Hardox, Armox and Toolox-UK<br>According to EN 10 029.<br>- Tolerances on shape, length and width.<br>- Tolerances on flatness according to Class N (Normal tolerances). |





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| Surface Properties                        | According to EN 10 163-2<br>- Requirements according to Class A.<br>- Repair conditions according to Subclass 1.<br>(Repair welding is allowed)   |  |
|---|---|--|
| General Technical<br>Delivery Requirement | According to our brochure 41-General product information Weldox, Hardox, Armox and Toolox-UK.   |  |
| Heat Treatment and<br>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 exposure to service or preheating temperatures in excess of 250° (480°F).<br>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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