

HARDOX[®] HiACE

Stands up to corrosive wear and wear at high temperatures for extended service life.

Tough on corrosion, tough on wear

in wood processing, pulp, paper
and saw mills



HARDOX[®]
WEAR PLATE

Hardox® HiAce lasts longer in corrosive environments. A newcomer in the Hardox® product range, Hardox® HiAce stands up to corrosive wear in wood processing, pulp, paper and saw mills.

SSAB has researched the field of corrosive wear for several years and developed a new grade of steel more suitable for these environments: Hardox® HiAce.

Wood processing, pulp, paper and saw mills have a lot to gain by using Hardox® HiAce. Processing and transporting logs, bark, wood chips and sawdust create an acidic and low pH environment in the entire production process. This leads to accelerated wear of the equipment.

Hardox® HiAce offers the same excellent mechanical properties as Hardox® 450, such as hardness, yield strength and toughness. The difference is how Hardox® HiAce deals with corrosive wear.

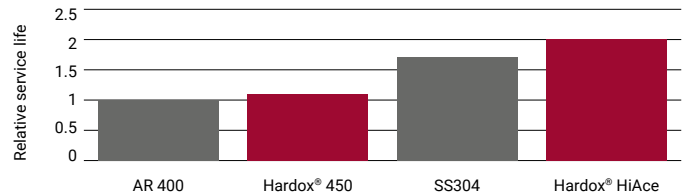
At low- and high-ph levels, different wear mechanisms kick in. A harder steel won't necessarily provide a longer equipment service life. Hardox® HiAce performs the same as a 450 HBW steel in a regular wear environment. However, at lower pH levels it can extend service life up to two times compared to a 400 HBW steel.

In tests, we compared Hardox® HiAce to stainless steel using different acids and abrasives. The results indicate that Hardox® HiAce can outperform ordinary stainless steel, such as SS304, by almost 20%.

Hardox® HiAce can also perform as a structural steel. It has a guaranteed impact energy of 27 J at -20 °C (20 ft-lb at -4 °F). It is available in thicknesses of 3-100 mm (0.118-3.937") according to the dimension program below.

Hardox® HiAce can be processed by the same kind of machinery used for other Hardox® grades. The bendability is the same as for Hardox® 450.

Relative service life in a wood and bark handling environment exposed to bark water, sand and clay.



Hardox® HiAce					
Product	Hardness nominal HBW	Impact toughness CVT guaranteed J at -20°C (ft-lb at -4°F)	Service life in acid environment subjected to wear (relative to 400 HBW steel)	CEV/CET typical	Thickness range mm (inches)
Hardox® HiAce wear plate	450	27 J (20 ft-lb)	Up to 2 times	1.01/0.39 for 20 mm (0.787")	4-100 (0.157-3.937)
Hardox® HiAce wear sheet	450	27 J (20 ft-lb)	Up to 2 times	0.99/0.38	3-4 (0.118-0.157)

Hardox® HiAce wear plate																							
Width	1000-	1351-	1500-	1601-	1701-	1801-	1901-	2001-	2101-	2201-	2301-	2401-	2501-	2601-	2701-	2751-	2801-	2901-	3001-	3101-	3201-	3301-	
Thickness	1350	1499	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2750	2800	2900	3000	3100	3200	3300	3350	
4.0-4.7																							
4.8-5.7																							
5.8-6.7																							
6.8-7.7																							
7.8-8.7																							
8.8-10.0																							
10.1-24.0																							
24.1-60.0																							
60.1-65.0																							
65.1-70.0																							
70.1-75.0																							
75.1-80.0																							
80.1-85.0																							
85.1-90.0																							
90.1-95.0																							
95.1-100.0																							

Maximum length 14630 mm (576")

Hardox® HiAce wear sheet								
Width	880-	1001-	1201-	1251-	1301-	1471-	1511-	1531-
Thickness	1000	1200	1250	1300	1470	1510	1530	1600
3.00-3.24								
3.25-3.74								
3.75-3.99								
4.00								

Maximum length 16000 mm (629.8")

- Outside the range of dimensions
- Some restrictions, contact your local sales representative for information

The data in these tables may be subject to change without notice. Please download the latest version of the respective Hardox® wear plate product data sheet at www.hardox.com

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