

HARDOX[®]
HiACE

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

**Tough on corrosion,
tough on wear**

in waste collection trucks



HARDOX[®]
WEAR PLATE

Hardox® HiAce lasts longer in acidic environments. The trend today is to build lighter waste collection trucks that save fuel and have higher load capacity.

Since municipal waste creates an acidic and corrosive environment, it puts special demands on the choice of steel.

SSAB has researched the field of corrosive wear for several years and developed a steel grade more suitable for these environments: Hardox® HiAce. This steel has the benefit of resisting corrosive wear in municipal waste management, in refuse trucks, waste-to-energy plants, recycling facilities and other industries.

The higher wear resistance allows for the use of thinner steel that reduces weight and still gives a longer service life. Lighter waste collection trucks are more cost-efficient for the fleet operator and give a lower environmental impact.

Several waste collection truck producers have used Hardox® HiAce and feedback has been very positive. Two garbage trucks with Hardox® HiAce in the floor plate have been running in Sweden for several years. Measurements and visual inspections of the trucks' floor indicate that Hardox® HiAce lives up to the tough requirements in this challenging environment.

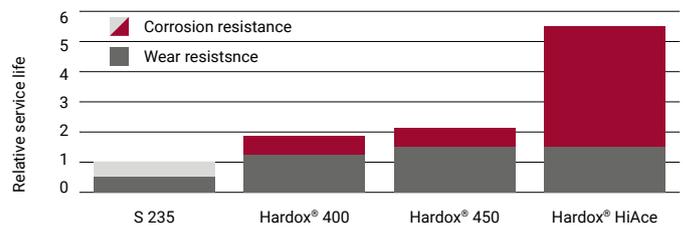
Hardox® HiAce has the same excellent mechanical properties as Hardox® 450, such as hardness, yield strength and toughness. The difference is how Hardox® HiAce deals with corrosive wear.

In low- and high-ph levels, different wear mechanisms kick in. Harder steels won't necessarily provide a longer equipment service life. Hardox® HiAce performs similar to a 450 HBW steel in a regular wear environment. At lower pH levels, it can extend service life up to 3 times compared with an AR400 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. It 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 corrosive environment in municipal waste & recycling.



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 3 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 3 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																						

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								

- 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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