

SSAB is a global leader in value added, high strength steel. SSAB offers products developed in close cooperation with its customers to create a stronger, lighter and more sustainable world.

SSAB has employees in over 45 countries and operates production facilities in Sweden and the US. SSAB is listed on the NASDAQ OMX Nordic Exchange, Stockholm. [www.ssab.com](http://www.ssab.com)

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110-UK-Hardox In My Body Buckets-V2-2011. SSAB. Österberg & Sörmlandstryck



# Hardox In My Body Buckets



The SSAB logo, consisting of a blue diagonal slash and the letters "SSAB" in a bold, blue, sans-serif font, is positioned in the bottom right corner of the image.

# Hardox – A part of your success



## Hardox In My Body™

The “Hardox In My Body” sign guarantees that the steel used for your bucket meets all of the strict demands made on wear plate for buckets. The sign guarantees that the user of the bucket has invested in a first-class product in terms of wear resistance, impact strength and weldability.

Only makers of buckets who have been examined reviewed and approved by SSAB are entitled to use the sign. The sign is your guarantee that the bucket meets very strict quality demands.

## Hardox wear steel in buckets

Hardox wear steel has unique properties for excavator buckets. Hardox combines high hardness with excellent workability properties. This means that the bucket will last longer and that wear parts will be easier to change.

The “Hardox In My Body” sign on the bucket is your safeguard that, in addition to buying a bucket with the highest possible wear resistance, you also have a bucket that will retain its shape and is readily repairable.



The Hardox In My Body sign guarantees that the steel used for the bucket is of the highest quality – the bucket will have a long useful life, can withstand blows and is readily repairable.

## Hardox offers a longer useful life

The hardness of Hardox wear plate is high and uniform. This means that the steel can resist wear very effectively. Hardox 400 has a guaranteed hardness range of 370-430 HBW, while the guaranteed hardness range of Hardox 450 is 425-475 HBW.

**Hardox wear plate is available in seven hardness grades** From Hardox 400 up to the Hardox Extreme. There is a Hardox grade for every part of a bucket. Hardox 450, for example, is very well suited for the body of the bucket, while Hardox 500 is intended for the cutting edges. Hardox HiTuf is an excellent steel for very thick cutting edges of large buckets.

## Hardox for better economy

High hardness combined with high toughness is a unique feature of Hardox wear steels. So, a bucket made of Hardox wear steel has a longer useful life. The high hardness reduces the wear rate of the bucket. The toughness ensures that the bucket will resist blows and that it will retain. Practical tests in which we dropped 300 kg (661,4 Lbs) weights onto Hardox wear plate demonstrate the exceptional toughness and resistance to blows and denting.

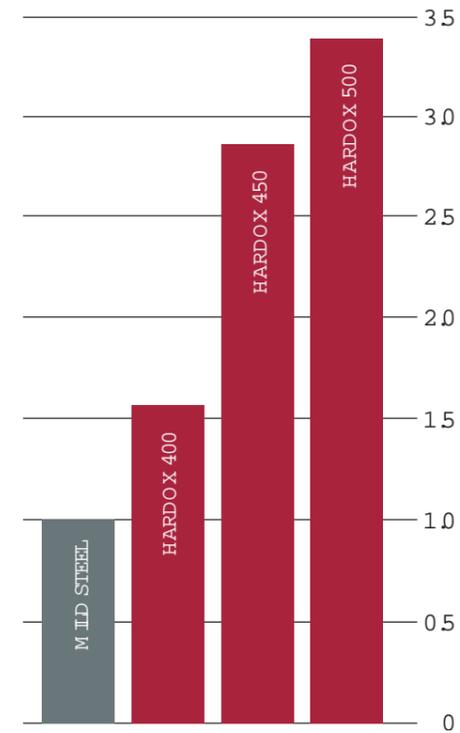
**Hardox 450** has a yield strength of around 1200 MPa (175 KSI) and has very high toughness. The bucket can therefore be subjected to heavy blows without sustaining any serious permanent deformation. The wear is uniformly distributed and the useful life increases, which results in better overall economy. If subjected to extremely hard duties, it is important for the steel to be pure, since this ensures high resistance to cracking. The high purity is unique to Hardox wear plate.

## Hardox opens new opportunities

Due to the good weldability of Hardox wear steel, repairs and replacement of wear parts are greatly simplified. Hardox wear plate can be welded by any of the usual methods, using normal filler metals. It is the combination of low carbon content and high purity that imparts such good weldability to Hardox wear plate. The purity of the steel reduces the risk of cracking during

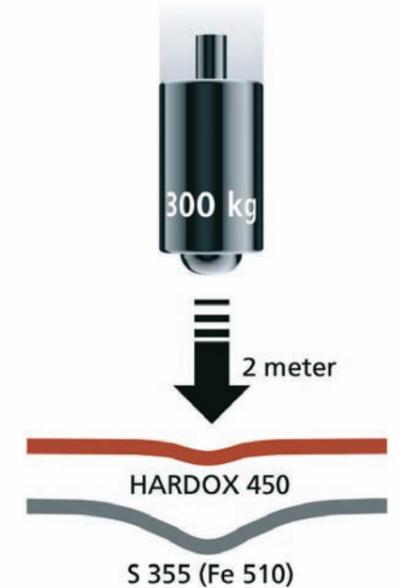
welding. The high toughness is also very beneficial in welding.

The “Hardox In My Body” sign on your bucket is your safeguard that the bucket is made of Hardox, a wear plate that will not restrict your work with the bucket.



Relative useful life. Comparison between mild steel (150 HBW), Hardox 400, Hardox 450 and Hardox 500.

In sliding wear, the higher hardness of Hardox 450 compared to Hardox 400 always improves the wear resistance. In favourable cases, such as if the wearing material is granite, the useful life or wear time may be 75% longer.



The SSAB method of testing resistance to blows. The test simulates rigidly mounted plates that are subjected to the impact of a 300 kg (661,4 Lbs) weight dropped from a height of 2.85 metres (112”). Hardox plate suffer much less denting than other steels.



The various hardness grades of Hardox steel have optimum locations in the bucket. Hardox 450, for example, is very well suited for the body of the bucket, while Hardox 500 is appropriate for the cutting edge. Hardox HiTuf is eminently well suited for very thick cutting edges of large buckets.