Your choice of wear plate has consequences for your business. Hardox® maximizes the wear performance of your equipment and machines, reducing workshop lead times and increasing the overall productivity of your operations.

Thanks to its consistent properties, Hardox’s performance remains invaluable across its lifetime. That also makes its service life very predictable, allowing you to rationalize your repair schedules.

With a combination of high hardness, high strength and good toughness, Hardox can be used in a variety of applications, including loading, transport and crushing in quarrying and mining.

How does Hardox achieve its top performance? The production processes include the state-of-the-art metallurgical cleaning of steel and a unique hardening process, resulting in wear plates with outstanding hardness, toughness and workshop friendliness.

Expertise at your service
In addition to plate, SSAB provides you with expertise. We share our knowledge with you through our Technical Support functions.

The Technical Support consists of experts that can help optimize your product from a design perspective and is committed to developing the technical knowledge of wear. We offer you access to Ph.D.’s and experts with decades of experience in solving wear challenges. You can get applied support and information on wear-related components.

Information about wear
Wear comes in different forms and each has a different impact on the service life of your application.

The most common wear types are sliding wear and impact wear. Abrasive particles trapped in a narrow gap between two rigid surfaces causing squeezing wear is also a common wear type.

Each variety of rock is composed of a unique set of minerals and these also contribute to the specific type of abrasive wear damage.

WearCalc software, available from our Technical Managers, describes and calculates the relative differences between materials. It allows you to predict relative wear life and compare different wear solutions.

Whatever your application and wear situation, Hardox is your ticket to outstanding wear performance.

Hardox – Complete product program
Each solution fits a critical place in your wear challenge. From a wide range of Hardox grades, thicknesses and widths, to the technical help you may need, we’re able to maximize your application’s performance.

Hardox 400 and 450 are versatile wear plates with high toughness, good bendability and excellent weldability. Hardox 500 is a tough, bendable and weldable abrasion resistant plate used in applications requiring high resistance. Hardox 550, with a hardness of 550 Brinell and a toughness equal to Hardox 500, is designed to increase wear life but not at the expense of reduced resistance to cracking.

Hardox 600 has a hardness of 600 Brinell but can still be cut and welded— an excellent plate for high performance applications.

Hardox HiTuf is a wear resistant plate with extra high toughness intended for heavy section wear parts requiring extraordinary wear and cost resistance.

Hardox Extreme is intended for applications requiring extremely high abrasion resistance. It can replace costly wear products like hard-faced overlay plates and high chrome white iron. Despite its hardness, it can be machined, cut, drilled and milled using standard workshop practices.

SSAB is a Nordic and US-based steel company. SSAB offers value-added products and services developed in close cooperation with its customers to create a stronger, lighter and more sustainable world. SSAB has employees in over 50 countries, SSAB has production facilities in Sweden, Finland and the US. SSAB is listed on the NASDAQ OMX Nordic Exchange in Stockholm and has a secondary listing on the NASDAQ OMX in Helsinki.

www.hardox.com
Down-to-earth advantages for quarrying and mining

Quarry and open pit mine operations put high demands on equipment. When it comes to abrasion resistance, compromise can be costly. Hardox® wear plates deliver unsurpassed advantages to the quarrying and mining sector throughout the entire production line. This includes economic benefits that can make a significant difference in mining operations.

It starts with Hardox wear plates’ superior wear resistance. Translating to significant increases in the interval between repairs. Hardox wear plates are the fast and flexible on-site solution. Its outstanding weldability and workshop-friendly properties allow it to be integrated easily into repair regimes, keeping production up and running. It also eliminates the need for a large stock of spare parts.

When it comes to design, the unique properties of Hardox wear plates take you beyond conventional thinking, allowing you to design in new levels of performance and cost savings. For example, its superior strength allows a thinner plate to be used, lowering overall weight and enabling increased payloads and thus productivity.

**SHOVEL**
- Shovel bucket structures can be built with Hardox 400/450. Hardox HiTuf is recommended for cutting edge. Other Hardox 500/550 are ideal for bucket cheek plates.

**BULLDOZER**
- Hardox 400/450/500 grades are ideal for premium blade structures. Use Hardox 500/550 for cutting edges and Hardox HiTuf for the rippers.

**DUMP TRUCK**
- Hardox lets you design low-weight bodies with the wear resistant qualities of much heavier structures. It is an excellent wear fighter in this application.

**DUMP POCKET**
- At the discharge site, use Hardox 400/450/500/550 to line dump pockets.

**HOPPER & FEEDER**
- Hardox 500/550/600 are the right choice for hoppers and feeders.

**CRUSHER**
- All Hardox grades can be used in crushers depending on the crusher type and the nature of the wear exposure.

**TRANSFER CHUTE**
- Every change of transfer direction needs a chute. The chutes can be made of Hardox 450/500/550/600.

**TIPPER**
- Use Hardox 400/450/500 in the body of the tipper. Hardox is an outstanding wear fighter in this application. Hardox also has great impact and dent resistance, making it an excellent design solution.

**HARDOX IN BUCKETS**
- Bucket: Hardox 400/450
- Attachment: Hardox HiTuf/400
- Shell: Hardox 400/450
- Wear bar: Hardox 500/550
- Slide sheet: Hardox 400/450/500
- Chuck plate: Hardox 450/550
- Side corner: Hardox 500/550
- Side cutter: Hardox 450/500
- Cutting edge: Hardox HiTuf 400/450/500

**BUCKET**
- Buckets are subjected to sliding and impact wear as well as high loads. The combination of Hardox 400/450/550 makes it possible to obtain high leading performance and service life.