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® performance remains invaluable across its lifetime. That also makes its service life very predictable, allowing you to schedule your repair schedule.

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

What’s the secret of Hardox’s 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.

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 PhDs and experts with decades of experience in solving wear challenges. You can get applied support and information on wear-critical 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
You’ll always find a Hardox plate to fit your wear challenge. Look in a wide range of hardness grades, thicknesses and widths to choose from, you’ll always be able to maximize your application’s performance.

Hardox® is a versatile wear plate that can be used in many different applications. It is designed to last, not out of the expense of reduced resistance to cracking.

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Mining operations put high demands on equipment. When it comes to abrasion resistance, compromise can be costly. Hardox® wear plate delivers unsurpassed advantages to the mining sector throughout the whole production flow. This includes economic benefits that can make a significant difference in mining operations.

It starts with Hardox wear plate’s superior wear resistance, translating to significant increases in the interval between repairs. Hardox wear plate is 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 plate 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.

**Down-to-earth advantages for mining**

**Front loader**
Hardox 400/450 are used both as structural and wear plate for the bucket. Wear parts on the bucket can be produced with Hardox 500/550.

**Dump truck**
Hardox enables the design of low weight bodies. Hardox 400/450 are most commonly used in dump truck applications. In some cases, Hardox 450/500 are used in the discharge end.

**Rail road car**
Hardox 450 allows rail road cars to withstand wear and denting.

**Discharge site**
Hardox 400 to 600 are ideal for side liner plates at the discharge site. The grizzly can be made of Hardox 400 to 550.

**Hopper & Feeder**
Hardox 450/500/550 are the wear plate of choice for the hoppers and feeder tables of the primary crusher.

**Crusher**
All Hardox grades may be used in different types of crushers depending on the wear exposure. Typical applications are lower plates in some interior areas with high wear.

**Measuring bin & Skip**
Hardox 500/550 are used in the lining of measuring bins and skips.

**Buffer bin**
Hardox 500/550 are used to line the walls of buffer bins.

**Hardox applications in underground mining**

- a. Front loader
- b. Dump truck
- c. Buffer bin
- d. Rail road car
- e. Discharge chute
- f. Transfer chute
- g. Feeder
- h. Screener
- i. Crusher
- j. Conveyor
- k. Measuring bin
- l. Skip