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

Thanks to its consistent properties, Hardox® performance remains irrevocable across its lifetime. This also makes your life very predictable, allowing you to sustain your repair schedule.

With a combination of high hardness, high strength and good toughness, Hardox® can be used in a variety of applications, from forest harvesting and ground preparation to paving work.

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 functions.

The Technical Support consists of experts that can help optimize your product from a design perspective and are 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 expert 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. Abrasion particles trapped in a service 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.

Wear: the inside story

Sliding

In sliding wear, abrasive bodies such as aggregate rocks are free to slide and roll. By selecting a harder Hardox grade, service life can be improved considerably.

Impact

In impact wear, the aggregate rocks hit the surface of the wear component at various angles. A harder grade of Hardox will deliver a longer service life here as well.

Squeezing

With squeezing wear, the improvement in service life of wear components is more difficult to quantify. However, an increased Hardox plate hardness often improves the service life significantly.

Hardox – complete product program

SSAB offers a wide range of Hardox grades, thicknesses and widths to choose from, allowing you 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 without 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 shock resistance.

Hardox Extreme is intended for applications requiring extremely high dynamic resistance. It is an erosion resistant wear product like twist-drill entrance plates and high chrome water rings. Despite its hardness, it can be worked cut, milled and drilled using standard workshop practices.

SSAB is a Nordic and US-based steel company. SSAB offers value added products and services development close cooperation with its customers to create 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 Exchanges (Stockholm and Nasdaq OMX) and on the NASDAQ OMX Helsinki: www.ssab.com.

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Hardox 550, with a hardness of 550 Brinell and a toughness equal to Hardox 500, is designed to increase wear life without 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.

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Breaking the ground for roadbuilding makes tough demands on machines and materials...

**HYDRAULIC HAMMER**
Hardox 400/450 in the housing of the hydraulic hammer exposed to wear from rocks.

**ASPHALT PLANT**
Hardox 450/500/550 as liner plates in the gravel chutes. Hardox 450/500 in the wings of the drum.

**EXCAVATOR BUCKET**
Hardox 450/500/550 in the excavator bucket. Hardox may be used in the entire bucket or just in the cutting edge and sides depending on the wear situation.

**TIPPER BODY**
Hardox 450/500 in the body of the tippers and dumpers. Hardox is an outstanding wear fighter in these applications. Hardox also has great impact resistance, making it an excellent design solution.

**BUCKET**
Hardox 450/500/550 in the blade of the motor grader.

**CHUTE**
In the chute that leads into the crusher Hardox 500/550/600 is the obvious choice in the tough environment.

**CRUSHER**
Hardox 500/550/600 used as liner plates in the crusher in areas with high wear.

**Asphalt Plant**
Hardox 450/500/550 in the screen plates.

**ROAD BUILDING CYCLE**
1. Hydraulic hammer
2. Excavator bucket
3. Bucket
4. Excavator bucket
5. Crusher
6. Bucket
7. Bucket
8. Asphalt Plant
9. Tipper (asphalt)
10. Tipper (gravel)
11. Loader
12. Motor Grader
13. Asphalt Roller
14. Asphalt Paver
15. Tipper (asphalt)
16. Asphalt milling machine