



# More Than Steel

Hardox Domex Weldox Docol Toolox Armox Prelaq

**SSAB**

“We are a global company, but act locally”

# Your Business in Focus

SSAB is a global leader in value added, high strength steel, but we are also much more. We are leading the way in design, innovation, technology, as well as environmental responsibility. And this combined with our unique focus on customer support, means that working with us is a partnership for success. Our products are produced in both Sweden and the USA, which allows us to supply an ever-growing number of markets across the entire world. And it helps us to reach our vision of producing steel for a stronger, lighter and more sustainable world.

At SSAB, we work together with you to ensure that you obtain the best possible results – and we’ve made this a part of our business. No matter your focus area, we provide assistance in the form of courses, seminars, handbooks and technical recommendations, as well as through the SSAB Knowledge Service Center – a hub devoted to knowledge sharing and technical support. We also work on many development projects together with our customers.

Over 30 years ago, we were one of the first companies to develop advanced high strength steels, but our history stretches back almost 140 years.

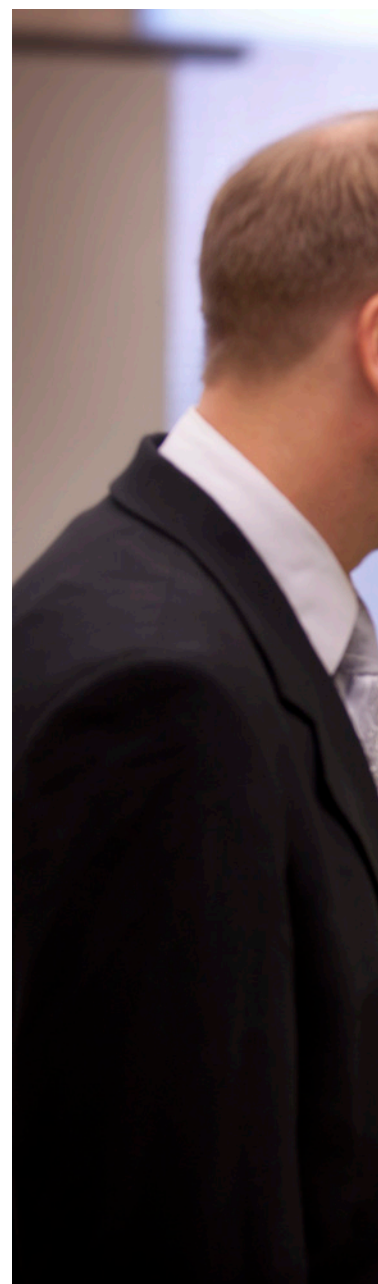
This experience has provided us with vast expertise in our areas of operation. And rather than keep this knowledge to ourselves, we give it back to every one of our customers. It’s a benefit of working together with us and one of the things that you will come to value the most.

SSAB products are produced from high quality raw materials through clean processes and tested multiple times. In our efforts to help create a more sustainable world, we not only offer products with environmental advantages, but we place the highest demands on ourselves with numerous environmental certificates to our credit including: ISO 14001, ISO/TS 16949, ISO 9001.

SSAB really is much more than a steel company.

## SSAB STEEL

We produce seven different types of steel products and each offers their own unique characteristics, areas of focus, as well as experience, services and support. Read more about their application areas, what sets them apart and how they will benefit your business.





SSAB products are produced from the highest quality raw materials, through the cleanest processes and tested multiple times.



Working together with customers is part of our business. At SSAB we ensure customers obtain the best possible results through tailor made solutions.



**HARDOX®**  
WEAR PLATE



Increased payloads and longer service life – Hardox® is the name for wear resistant steel from SSAB. It is the best choice for applications that must stand up to the toughest demands and it comes as a complete package including plate, people, knowledge and more.

# Hardox

## Wear Plate that Lasts

Hardox offers a range of grades, thicknesses and widths, each with their own unique characteristics. However, all of them provide you with the ability to improve the wear performance of products or machinery, as well as cut the lead times in your workshop and increase the productivity of your operations. Considered the toughest wear plate on the market, Hardox is workshop friendly and allows for excellent welding, bending, cutting and machining. And combined with easy access to knowledge and support from many years of wear plate experience, Hardox has become a symbol of quality across the globe. Just look for the Hardox in My Body sign of approval and the Hardox Wearparts certification that ensure it's the real thing.

### APPLICATIONS

Hardox is especially useful in demolition tools, hammers, liner plates, bins and skips, tipper bodies, buckets and crushers, front loaders and in any application that sees regular use and where cracks, deformations and wear must be prevented.

#### HARDOX BENEFITS YOU THROUGH:

- ▶ The lowest weight solutions with the highest payloads
- ▶ Superior workshop properties
- ▶ The longest product lifetime with the shortest downtime
- ▶ A partnership in marketing and technical support, with the highest service levels
- ▶ Pioneering innovation.



**DOMEX**<sup>®</sup>  
HIGH STRENGTH STEEL



Advanced high strength steels that stand out from mild steels and other high strength steels, Domex<sup>®</sup> steel lives up to the demands of the transportation industry.

## Domex

# The Transportation Steel Expert

Developed specifically to address the challenges of transport and vehicle manufactures, Domex are advanced high strength steels from SSAB that supply you with many advantages. When using Domex, your transportation products can be made with thinner steel while still retaining their strength properties. This reduces weight, allows for larger payloads, cuts costs and reduces the impact on the environment – as less material is needed in production. Domex steels have a long history in the transportation industry and are constantly being researched, developed and applied to new products and uses. When beginning a project with Domex, you get direct access to this vital knowledge.

### APPLICATIONS

The benefits of Domex have already been appreciated by some of the biggest names in trailer and body builders, as well as truck manufactures. However, Domex can be used in everything from ships, bridges, buildings, and machinery to various types of lifting devices, tanks and containers.



#### DOMEX BENEFITS YOU THROUGH:

- ▶ Lighter applications with increased payloads
- ▶ Superior formability and weldability
- ▶ Easy access to research, knowledge and support
- ▶ The most eco-friendly transportation steel on the market
- ▶ Uniquely versatile construction steel.



**WELDOX®**  
HIGH STRENGTH STEEL



Reduce weight, increase payload and extend your reach. To push the boundaries of structural engineering, SSAB created a range of steels now considered the market leader.

# Weldox

## Unlimited Creativity

Weldox® is designed to meet and exceed the high demands and standards of the lifting industry. Its extreme yield strength allows you to reduce the weight of your product without sacrificing the strength. Or, alternatively, retain existing weight and adding extra strength for a longer and higher reach. The consistency of Weldox's properties and its workshop friendliness offers increased productivity and shorter production lead times. And thanks to our unique precision program AccuRollTech™, we can guarantee the narrowest heavy plate thickness tolerances on the market. As a Weldox customer you can always trust in our steel knowledge and just let your creativity flow.

### APPLICATIONS

Weldox is most often used in the manufacturing of mobile cranes, but also truck mounted cranes, concrete pump trucks, telehandlers, aerial platforms and other advanced engineering applications that highlight precision, consistency and workshop efficiency.

#### WELDOX BENEFITS YOU THROUGH:

- ▶ Higher payloads through thinner material
- ▶ A longer reach through higher yield strength
- ▶ Reduced workshop hours due to uniform properties
- ▶ Superior steel consistency and precision during your manufacturing
- ▶ An extensive product program for all purposes
- ▶ Our knowledge about our steel and its versatility.



**DOCOL®**  
HIGH STRENGTH STEEL



As the strongest advanced high strength steel in the world, Docol® is the steel that can help car manufacturers meet the industry's new demands of reducing CO<sub>2</sub> emissions, while obtaining five star crash test ratings.

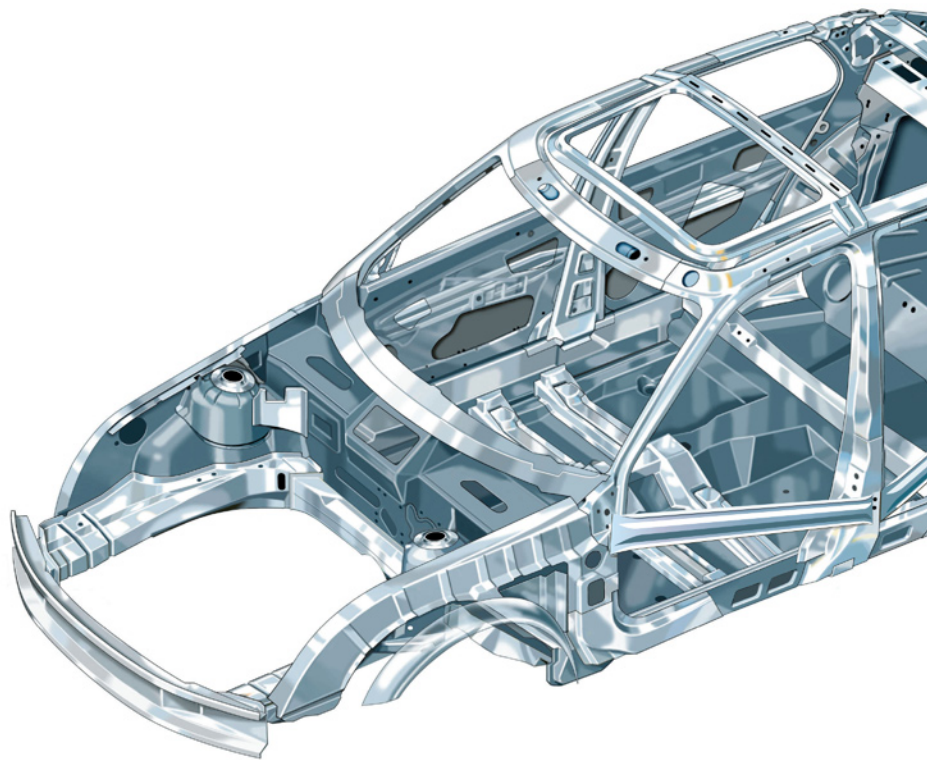
## Docol

# Stronger Steel, Safer Cars

Developed for the automotive industry, Docol steel stands out as the world's strongest advanced and ultra high strength steel for car safety components. Its best in class energy absorption and outstanding strength will also provide you with many environmental benefits. Docol's high strength to weight ratio means that thinner steel can be used without sacrificing strength and allows you to significantly reduce the weight of your products. This increases fuel efficiency, improves driving performance and cuts your costs. Docol also comes with another important benefit – vital technical expertise and access to data from many years of supplying the automotive industry.

### APPLICATIONS

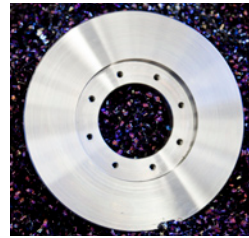
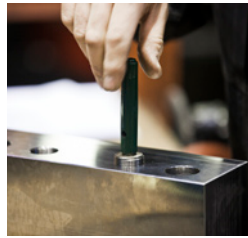
Docol can be used in many applications, but are most often found in car seats, bumpers, side impact beams and other structural components. Many of the world's largest OEMs and car manufacturers currently use Docol, and as even stronger grades are developed, this trend will grow.



#### DOCOL CAN BENEFIT YOU THROUGH:

- ▶ Being the strongest AHSS & UHSS steel on the market
- ▶ The highest technical expertise
- ▶ Reduced costs due to less material use
- ▶ Improved fuel economy in cars, as well as driving characteristics
- ▶ Being the most consistent and weldable AHSS & UHSS steel on the market
- ▶ Unique trial material stock offer.

**TOOLOX®**  
PREHARDENED TOOL STEEL



Heat treated, ready for use upon delivery, measured and guaranteed mechanical properties, superior toughness, the idea behind the SSAB steel Toolox® is based on one thing – simplicity.

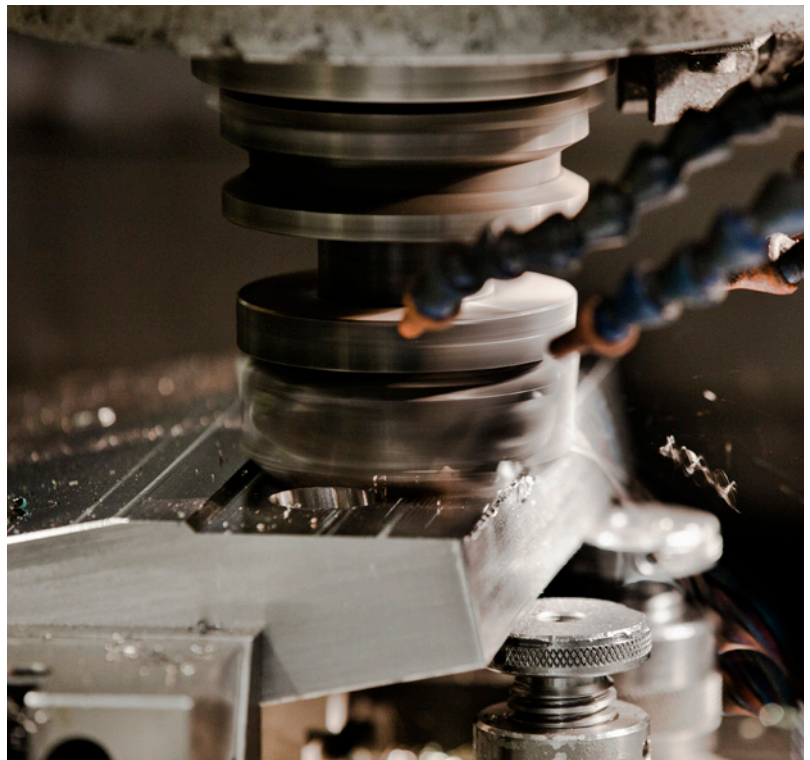
# Toolox

## Pre-Hardened and Ready-to-Use

Toolox is steel for tools and machines. It provides you with lower costs, reduced risks and saves you valuable time in your production process due to its excellent machinability. This combined with the benefit of working with the hardest pre-hardened tool steel in the world gives you a simple to use material with a wide variety of uses. Toolox is based on the low carbon metallurgical concept found in Hardox and Weldom, but it is specially developed for tools and machine components working at high temperatures. It has excellent fatigue properties and you can actually increase the surface hardness to gain more control over the service life of your tools or components.

### APPLICATIONS:

Toolox has a wide range of uses, but is most commonly found in such things as sheet metal tools, plastic molding tools, as well as in highly exposed machine components.



### TOOLOX CAN BENEFIT YOU THROUGH:

- ▶ Reduced workshop and production hours
- ▶ Unmatched machinability
- ▶ Reduced service costs
- ▶ Superior toughness
- ▶ Excellent user friendliness.



**ARMOX®**  
PROTECTION PLATE



When personal safety is critical, there is Armox® – lightweight, yet high performance steel protective plating that meets stringent international ballistics criteria.

# Armox

## No Room for Compromise

Armox steels are durable, strong and rigorously tested in ballistic environments, as well as in real life where you can't afford to take chances. Certified by defense ministries around the world, it is the preferred protection plate of leading military equipment manufacturers and is perfect for a variety of civilian armored applications. However, superior anti-ballistics properties are not the only way you can benefit with Armox. It's high strength to weight ratio means that lighter applications can be produced with the same anti-ballistics performance. Armox is also great in the workshop and is easy to cut, drill, weld and can be bent without affecting performance.

### APPLICATIONS:

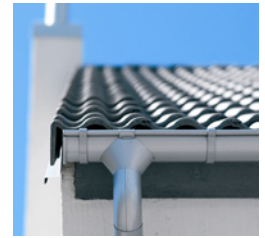
Armox is widely used in defense and civilian armored applications across the world including, security vehicles, mine clearing vehicles, body armor, door and wall structures, as well as in military equipment. However, Armox can be utilized for nearly any anti-ballistics application.



### ARMOX BENEFITS YOU THROUGH:

- ▶ Unparalleled anti-ballistics protection certified by defense ministries around the world
- ▶ Stronger, lighter applications with less material use
- ▶ Ease of use in the workshop
- ▶ A wide variety of application areas
- ▶ Continual innovation.

**PRELAQ®**  
COLORFUL BUILDING



If you are searching for an easy to use, durable steel that can help you take environmental concern and save time and money, look no further than Prelaq® pre-painted steels.

# Prelaq

## Sustainable, Pre-painted Steel for Buildings

Prelaq is pre-painted sheet steel for buildings and is available for a range of applications. Prelaq offers weather protection in a rainbow of colors and can be matched to different environmental conditions by adjusting steel and paint systems. Constructions using Prelaq offer safe and durable climate protection, low maintenance costs and, consequently, good economy.

Prelaq means high quality steel and unique sustainable coating alternatives, which help you to be more environmentally conscious, as well as save energy and money.

### APPLICATIONS

Prelaq can help you to produce a wide range of quality products. Prelaq Energy is used to offer better comfort and environmentally efficient solutions. Another significant application is rain-water systems based on double sided pre-painted steel. Other Prelaq uses include long strip roofing and wall claddings with strict demands on functionality, flexibility and appearance. Profiled sheet steel for tiles, cassettes and sandwich panels, with the quality painting system Nova, is also an important segment.



#### PRELAQ CAN BENEFIT YOU THROUGH:

- ▶ Better looking buildings
- ▶ Customized solutions for steel and coating combinations
- ▶ Proven durability
- ▶ Paint system developed for the climate in Northern Europe
- ▶ Superior technical support.



SSAB is certified by DNV in accordance with ISO EN 9001 and ISO/TS16949 regarding Quality Management System and ISO EN 14001 regarding Environmental Management system.

Unless otherwise specified in material standards or otherwise agreed SSAB deliver according to EN or ISO standards, i.e EN 10 025, EN 10 149, for delivery condition, mechanical properties etc. In some areas we guarantee an even closer tolerance than standards such as AccuRollTech™ for thickness tolerances on plate.

All products are delivered with a certificate according to EN 10 204.

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.

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