

## Check list for identifying HARDOX® wear plates

There is only one producer of HARDOX wear plates, SSAB Oxelösund. Only HARDOX wear plates meet the very high level of product properties and customer value (outstanding precision, smooth and flat surface, excellent impact resistance, predictable lifetime and uniform wear), guaranteed by SSAB Oxelösund. This check list helps you to identify original HARDOX wear plates. One of the following steps should be enough to verify HARDOX wear plates or to exclude copies.



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### Check list for identifying HARDOX wear plates (in this order):

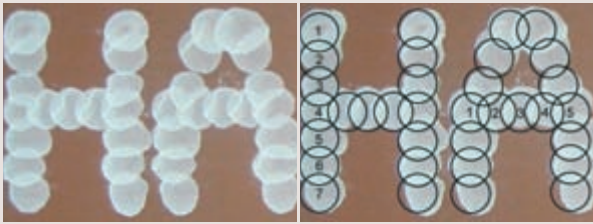
1. The product and corporate marking (confirms HARDOX)
  2. Plate stamp (confirms HARDOX)
  3. The HARDOX sign (confirms HARDOX)
  4. The supplier (can exclude HARDOX)
  5. Measure the hardness level (can exclude HARDOX)
  6. Spectrographic analysis performed at the SSAB Oxelösund Chemical Laboratory (confirms HARDOX)
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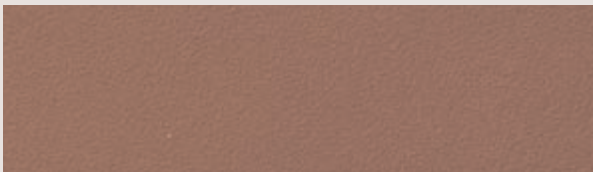
The HARDOX marking is spaced all over the plate.



The producer name "SSAB OXELÖSUND" is spaced all over the plate.



The marking letter is normally built up of 7 x 5 dots, with about 60 mm (2 3/8") high letters.

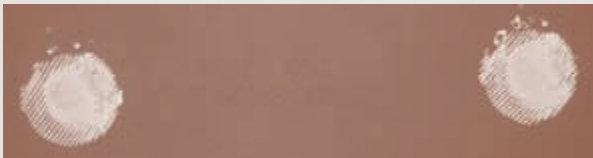


HARDOX wear plates are delivered with the HARDOX red-brownish.

Photo of a HARDOX plate with original shop primer.



Edge stickers.



If the plate has two white markings, the stamp is located between them.



The SSAB Oxelösund OX Shield is stamped into the plate. Size about 12 x 12 mm (1/2" x 1/2").

## 1. The product and corporate marking

Is the product and corporate marking still visible? HARDOX wear plates are marked with white dot marking all over the plate, stating the product name (e g "HARDOX 400") and the producer "SSAB OXELÖSUND". The plate identity number and plate size is marked as well. Many companies intentionally leave parts of the marking unpainted for later identification by the end user. Is there still an edge sticker? HARDOX wear plates have a small edge sticker if the plate thickness is larger than 7 mm (1/4") when they leave the production plant in Oxelösund, Sweden. It includes the product name (e g "HARDOX 400"), the dimensions (e g "4000 x 2000 x 20") and the plate identity number (e g "54918 1855278").



## 2. Plate stamp

HARDOX wear plates are stamped if the plate thickness is larger than 5 mm (3/16"). Each plate has at least one stamp, located close to the plate edge. It includes the product name (e g "HARDOX 400"), the OX Shield and the plate identity number (e g "54918 185527").



The stamp. The height of the letters are normally about 12 mm (1/2")

### 3. The HARDOX sign

Manufacturers of products made of HARDOX wear plate have the possibility to put the sign "HARDOX in my body" on their products. The most common width of the sign is 520 mm (20"). Other signs are the "HARDOX Wearparts" signs.

The manufacturers have an agreement with SSAB Oxelösund which implies that the manufacturers guarantee that all wear plates of the structure is HARDOX wear plate.

If you want us to confirm that a specific company has an agreement, please contact your local HARDOX Customer Service. See [www.hardox.com](http://www.hardox.com) or visit our online HARDOX in my body verifier [www.hardoxinmybody.com](http://www.hardoxinmybody.com)

### 4. The supplier

Does your supplier buy HARDOX wear plates?  
HARDOX wear plates are only produced by SSAB Oxelösund. The majority of the plates are sold world-wide directly to the manufacturers. This means that we can track down the absolute major part of all customers. Provide SSAB Oxelösund with:

- Thickness and width of the plate
- Assumed HARDOX grade of the plate
- The name and address of your supplier (as manufacturer or distributor).

We will most probably be able to tell if we have supplied the company concerned. Contact your local HARDOX Customer Service. See [www.hardox.com](http://www.hardox.com)

### 5. Measure the hardness level

The HARDOX wear plates have very tightly guaranteed hardness levels:

This means that by measuring the hardness level, other plates can be excluded. Our guarantee values can be verified by Hardness Brinell (HBW) measurements only. The preparation of the specimen to be tested is critical:

- A smooth surface. At least 0.5-1 mm (1/32") of the surface must be milled or ground off using a coolant.
- A clean surface. No oxide scale, no dirt, no lubricants.
- The influence from cold working or heat affecting from preparation shall be minimized.

Note that most portable measurement methods do not give accurate enough results. One of few feasible methods is the electronic hardness meter shown on the next page:



The old "HARDOX in my body" sign.



The new "HARDOX in my body" sign with identity number.



Hardness measurement with an electronic portable hardness meter.

HARDOX product	Minimum hardness (HBW)	Maximum hardness (HBW)
HARDOX 400	370	430
HARDOX 450	425	475
HARDOX 500, 4-26 mm ( $\leq 1''$ )	470	530
HARDOX 500, 27-80 mm ( $> 1''$ )	450	540
HARDOX 600	560	640



Spectrographic analysis of test specimens at the SSAB Oxelösund Chemical Laboratory

## 6. Spectrographic analysis performed at the SSAB Oxelösund Chemical Laboratory.

If there still are doubts that the plate you have is a HARDOX plate, cut out a specimen, at least 50 x 50 mm (2" x 2") and contact your local HARDOX Customer Service (see below). A spectrographic analysis of the test specimen will be performed at the SSAB Oxelösund Chemical Laboratory. In this test we will be able to see if the chemical composition is HARDOX.

### HARDOX Customer Service

Contact your local HARDOX Customer Service. The contact information is given on Internet: <http://www.hardox.com>

**HARDOX®**  
WEAR PLATE

HARDOX is a registered trademark by SSAB Oxelösund AB  
HARDOX wear plate only by SSAB Oxelösund AB

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