

# ROC 401

## ABRASION RESISTANT SHEET

Wear resistant sheet, hot rolled on strip mill mechanical properties are obtained during the rolling process. Thanks to the rolling process sheets have an excellent surface cleanliness.

## Chemical composition

C	Si	P	S	Cr	Ni	Mo	Al
< 0.20	< 0.50	< 0.03	< 0.01	< 1.00	< 0.80	< 0.40	> 0.01

## Mechanical properties in delivery condition (indicative values)

**ROC 401:** sheets are thermo-mechanically rolled.

Thickness	Ys (MPa)	UTS (MPa)	E (%)
5 mm	990	1300	12

  

Guaranteed hardness (HB)	Average measured value (HB)
340 - 440	370

— **Dimension tolerance:**

In accordance with EN 10051 (December 1997).

— **Available dimensions:**

- Thickness: 3, 4, 5, 6 mm;
- Width: 1250, 1500 mm.

## Processing information

— **Cutting:**

All kind of flame cutting processes can be used.

— **Bending:**

In order to optimize this operation, a minimum Temp  $\geq 10$  °C is requested.

	Internal minimum radius	Die opening minimum
Transversal	4 x th	14 x th
Longitudinal	5 x th	14 x th

— **Rolling:**

Minimum internal diameter 40 x th.

— **Welding:**

Hardness is obtained directly during the rolling process, thermo-mechanical rolling process. This type of process requests an addition alloy elements. Therefore the CEV value explains the strict necessity to fully respect the welding process. No preheating is required, nevertheless, in case of classical welding GMAW, the heat input must be managed correctly in order to avoid too much stress or distortion (Indicative Energy = 1.5 up to 2 kJ/mm).

## General note

— If further informations are required, please request a copy of our technical guide.

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