

# Strenx 960 CR

## Advanced High Strength steel

### General Product Description

Strenx 960 CR is a cold-rolled structural steel with a minimum yield strength of 960 MPa intended to give stronger and lighter structures. Typical applications are a wide range of components and parts for example loadbearing structures.

#### Available dimensions

Strenx 960 CR is available as coils and cut to length sheets in thicknesses of 0.50-2.10 mm, widths up to 1500 mm and in lengths up to 8.5 meters.

### Mechanical Properties

Yield strength R <sub>p0.2</sub> Min MPa	Tensile strength R <sub>m</sub> MPa	Elongation A <sub>80</sub> Min % Sheet thickness t ≤ 2.1 mm
960	1200 - 1400	3

The mechanical properties are tested in the longitudinal direction.  
The mechanical properties are guaranteed in coil condition.

Bending properties	
Min. inner bending radius for a 90° bend	3.5xt

For both longitudinal and transverse direction.

### Chemical Composition (ladle analysis)

C % Max	Si % Max	Mn % Max	P % Max	S % Max	Al % Min	Nb + Ti % Max
0.14	0.40	2.00	0.020	0.010	0.015	0.10

#### Carbon equivalent

CET / CEV Typical	0.28 / 0.39
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$$CET = C + \frac{Mn + Mo}{10} + \frac{Cr + Cu}{20} + \frac{Ni}{40}$$

$$CEV = C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Ni + Cu}{15}$$

## Tolerances

More details are given on [www.ssab.com](http://www.ssab.com).

### Thickness

Tolerances according to Strenx Thickness Guarantees.

Strenx Thickness guarantees meet the normal thickness tolerance requirements of EN 10131.

### Width and Length

Tolerances according to EN 10131.

Narrower tolerances according to the SSAB standard are available on request.

Length tolerances only apply for cut to length sheets.

## Delivery Conditions

Cold rolled. Strenx 960 CR is available with mill or cut edge.

## Fabrication and Other Recommendations

### Welding, bending and machining

Strenx 960 CR has good cold forming, welding and cutting performance.

For information concerning fabrication, see SSAB's brochures on [www.ssab.com](http://www.ssab.com) or consult Tech Support, [techsupport@ssab.com](mailto:techsupport@ssab.com).

Appropriate health and safety precautions must be taken when bending, welding, cutting, grinding or otherwise working on the product.

## Contact and Information

For information, see SSAB's brochures on [www.ssab.com](http://www.ssab.com) or consult Tech Support, [techsupport@ssab.com](mailto:techsupport@ssab.com).