Strenx 960 CR

General Product Description

The high-strength structural steel at 960 MPa

Strenx™ 960 CR is a cold-rolled structural steel with a minimum yield strength of 960 MPa used to produce stronger and lighter structures.

Typical applications include a wide range of components and parts, for example load-bearing structures. Strenx 960 CR comes in cut-to-length sheets.

Dimension Range

Strenx 960 CR is available as cut to length sheets in thicknesses of 0.70-2.10 mm, widths up to 1500 mm and in lengths up to 8.5 meters.

Mechanical Properties

Yield strength $R_{p0.2}$ (min MPa)	Tensile strength R_m (MPa)	Elongation A_{80} (min %)	Min. inner bending radius for a 90° bend[1)]
960	1200- 1400	3	3.5 x t

The mechanical properties are tested in the longitudinal direction.
The mechanical properties are guaranteed in coil condition.
[1)] 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)

Thickness	0.70 - 2.10
Typical CET	0.28 (0.39)

$$CET = C + \frac{Mn + Mo}{10} + \frac{Cr + Cu}{20} + \frac{Ni}{40} \qquad CEV = C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Cu + Ni}{15}$$

Tolerances

More details are given on www.ssab.com.

Thickness

Tolerances according to Strenx Thickness Guarantees. Strenx Thickness guarantees meet the normal thickness tolerance requirements of EN 10131.

Length and Width

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.

Flatness

Tolerances according to Strenx Flatness Guarantees Class B. Strenx Flatness Guarantees offer narrower tolerances compared to EN 10 131. Flatness guarantees 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 or consult Tech Support, techsupport@ssab.com.

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

Contact Information

www.ssab.com/contact