STRENX®
PERFORMANCE STEEL

Strenx 1100 CR

Advanced High Strength steel

General Product Description

Strenx 1100 CR is a cold-rolled structural steel with a minimum yield strength of 1100 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 1100 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 $R_{p0.2}$ Min MPa	Tensile strength R_m MPa	Elongation A_{80} Min % Sheet thickness t ≤ 2.1 mm
1100	1300 - 1500	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
0.16	0.40	1.80	0.020	0.010	0.015	0.10

Carbon equivalent

CET / CEV Typical	0.30 / 0.41

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

SSAB

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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.

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 1100 CR is available with mill or cut edge.

Fabrication and Other Recommendations

Welding, bending and machining
Strenx 1100 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 and Information

For information, see SSAB's brochures on www.ssab.com or consult Tech Support, techsupport@ssab.com.