



STRENX 700 CR

STRENX 700 CR

General Product Description

The high-strength structural steel at 700 MPa

Strenx 700 CR is a cold-rolled structural steel with a minimum yield strength of 700 MPa used to produce stronger and lighter structures.

Strenx 700 CR comes in cut-to-length sheets. Typical applications include a wide range of components and parts, for example load-bearing structures.

Dimension Range

Strenx 700 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⁾
700	1000- 1200	7	2.0 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 %)
0.16	0.40	1.80	0.020	0.010	0.015	0.10

Carbon equivalent CET(CEV)

Thickness (mm)	0.7 - 2.1 mm
Typical CET (CEV)	0.29 (0.40)

STRENX 700 CR

$$CET = C + \frac{Mn + Mo}{10} + \frac{Cr + Cu}{20} + \frac{Ni}{40}$$

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

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.

Delivery Conditions

Cold rolled. Strenx 700 CR is available with mill or cut edge.

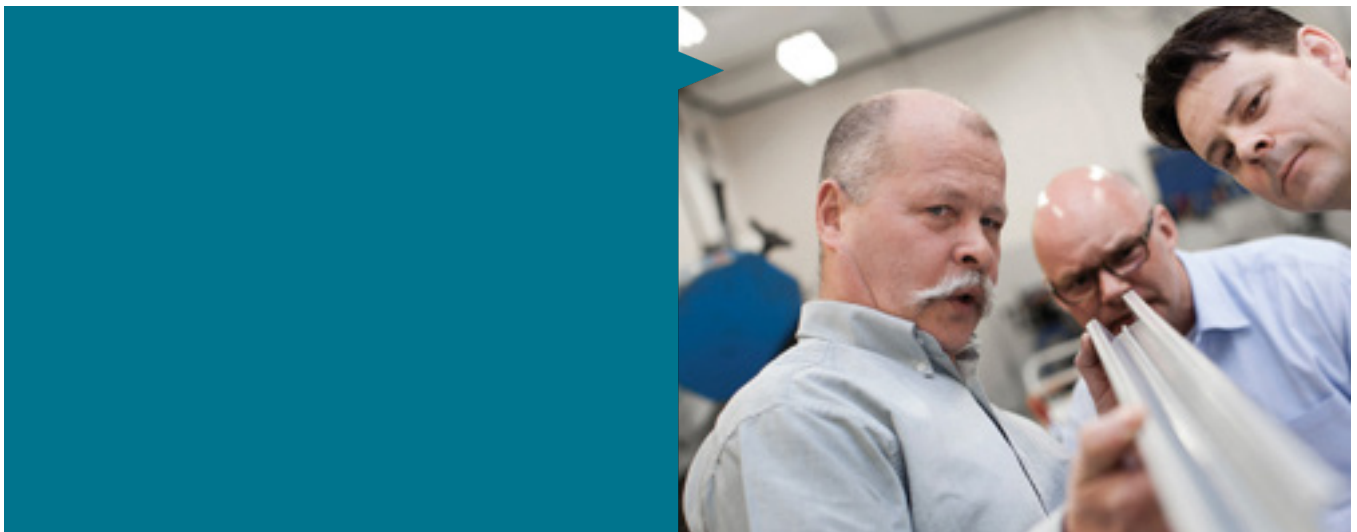
Fabrication and Other Recommendations

Welding, bending and machining

Strenx 700 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.



The UK English version of this document shall prevail in case of discrepancy. Download the latest version of this document at www.ssab.com
Hardox, Strenx, Docol, Dogal, Domex, Toolox, Laser, Armax, Ramor, GreenCoat are trademarks of SSAB Technology AB, Sweden