

COR-TEN® A, cold rolled

General Product Description

With its anti-corrosive properties, COR-TEN® minimizes the need for maintenance and corrosion-prevention treatment, contributing significantly to low maintenance costs throughout the product lifecycle. In addition to low maintenance costs, the reduced need for corrosion prevention means less use of paint and solvents, making COR-TEN® an environmental friendly choice of steel. Typical applications are structural components for buildings, transmission poles, bridges and many others.

Dimension Range

COR-TEN® A cold rolled is available in thicknesses of 0.50-3.00 mm and widths up to 1530 mm as coils, slit coils and as cut to length in lengths up to 8.5 meters.

Mechanical Properties

Yield strength R_{eL} (min MPa)	Tensile strength R_{m} (min MPa)	Elongation A_{80} (min %)	Minimum bending radius
310	450	22	0.5 x t

Tensile testing is carried out transverse to the rolling.

If the yield point is not pronounced, the values apply to the 0.2% proof strength $R_{p0.2}$. If the yield point is pronounced, the values apply to the lower yield point (R_{eL}).

Chemical Composition

C (max %)	Si (%)	Mn (%)	P (%)	S (max %)	Al (%)	Cu (%)	Cr (%)	Ni (max %)
0.12	0.25 - 0.75	0.20 - 0.50	0.07 - 0.15	0.03	0.015 - 0.060	0.25 - 0.55	0.50 - 1.25	0.65

Tolerances

COR-TEN® A in cold rolled condition is supplied with thickness and width tolerances in accordance to EN 10131:2006. More narrow thickness tolerances are available on request.

Cut to length are supplied with length tolerances in accordance to EN 10131:2006.

Delivery Conditions

Cold rolled.

Fabrication and Other Recommendations

The COR-TEN® A steel can be cold formed in the same manner as general structural steels of the same strength.

COR-TEN® is an internationally registered trademark of United States Steel Corporation.

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

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