



COR-TEN[®] A and S355J0WP acc. to EN 10025-5

Specialty Steel offers atmospheric corrosion resistant steel, known as COR-TEN[®] A weathering steel, or S355J0WP acc. to EN 10025-5.

There are many ways for us, as Specialty Steel, to offer you our services and support.

Let us build the optimal supply chain for you, together with you.

Standard size sheets available from stock; customized lengths for optimized nesting based on coil stock; JIT and call-off scenarios; processed parts. Anything else?



COR-TEN® and S355J0WP are structural steels with a minimum yield strength of 345-355 MPa, alloyed with Phosphorus (P), Silicon (Si), Copper (Cu), Chromium (CR) and Nickel (Ni). Because of this alloying, the surface of COR-TEN® A and/or S355J0WP will, under the influence of varying wet and dry atmospheric conditions, form an oxide layer called patina. This patina completely seals-off the steel surface from the atmosphere and thus forms a corrosion-resistant coating. Both beautiful and durable!

Typical chemical composition of COR-TEN® A (max. % ladle analysis)

	C	Mn	P	S	Si	Cu	Al	Cr	Ni
Minimum		0.20	0.07		0.25	0.25	0.015	0.50	
Maximum	0.12	0.50	0.15	0.030	0.75	0.55	0.060	1.25	0.65

Typical mechanical properties of COR-TEN® A

Yield strength • Rp N/mm ²	Tensile strength • Rm N/mm ²	Elongation • A5 %	Bending Radius • 90°	CEV • Sheet (plate)
≥ 345	≥ 485	≥ 20	≥ 2 x t	0.35 (0.39)



COR-TEN® is popular amongst architects because of its natural appearance in combination with modern building materials such as wood, glass, stainless steel and concrete.

In industrial environments, COR-TEN® finds its way to chimneys, heat-exchangers, fan blades and many more applications.

In construction industry, COR-TEN® is used, for instance, for bridges, support structures, electricity poles etc.

Specialty Steel offers the following dimensions from stock with material certificate EN 10204:3.1

Thickness (mm)	Width (mm)
1.5 *	1250 - 1500
2.0 *	1000 - 1250 - 1500
3.0	1000 - 1250 - 1500 - 1800
4.0	1000 - 1250 - 1500 - 2000
5.0 - 6.0	1000 - 1250 - 1500 - 2000
8.0 - 12.0	1500 - 2000
15	1500
	Other widths upon request



* Cold rolled.

Thickness 1,5 mm standard lengths.

Thickness 2,0-15,0 mm standard lengths; other lengths to max. 16000 mm.

Contact your Specialty Steel representative for more information.

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