



CSA Structural Steel Plate for Bridges

SSAB's facilities in Mobile, Alabama and Montpelier, Iowa are among the most efficient and modern steel plate mills serving North America. For bridge plate customers, these SSAB steelworks represent cost-effective, reliable sources for high quality bridge plate in a wide range of grades and sizes.

SSAB's structural steel plate for bridges can be ordered to Canadian Standards Association (CSA) G40.21-04. The following table summarizes the CSA G40.21-04 steel specifications to which SSAB plate for bridges may be ordered.

Bridge Steel Plate and Mechanical Properties Available from SSAB

Grade SI	Grade English	Min. YS, MPa ≤ 65 mm	Min. YS, MPa > 65 mm	UTS, MPa	Min. % Elong. in 50 mm ¹	Min. LCVN Energy, Joules, Category 1 to 4
300W	44W	300	280	450 / 620	21	-
300WT	44WT	300	280	450 / 620	21	20
350W	50W	350	320	450 / 650	20	-
350WT	50WT	350	320	480 / 650	20	27
350A	50A	350	350	480 / 650	19	-
350AT	50AT	350	350	480 / 650	19	27
480AT	70AT	480	-	590 / 790	14	27 ²

Note: Type W indicates weldable steel, Type WT indicates weldable notch-tough steel, Type A indicates atmospheric corrosion-resistant weldable steel, and Type AT indicates atmospheric corrosion-resistant weldable notch-toughness steel.

Longitudinal Charpy V-notch (LCVN) test temperatures for Categories 1 through 4 are shown below.

Category	LCVN Test Temperature, °C
1	0
2	-20
3	-30
4	-45

Since the Category 5 toughness level and test temperature is specified by the purchaser, please inquire about the availability of such product. Also inquire about SSAB capabilities to achieve toughness requirements in the transverse orientation.

¹ For thicknesses less than 8 mm, clause 8.3.1.1 of CSA G40.20-04 applies.

² For Category 1, 2 and 3 only.



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SSAB's Mobile and Montpelier facilities are capable of producing plate up to 3.05 m (120") wide in thicknesses from 5 mm (0.2") to 75 mm (3"). The following tables identify SSAB's bridge plate dimensional capabilities.

Grade	Thickness, mm	Width, m	Length ³ , m
300W/44W 350W/50W 350A/50A	5 - <19	Less than 1.83	Inquire
		1.83 – 3.05	To 24.5
	19 - 38	Less than 1.83	Inquire
		1.83 – 3.05	To 28.95

Grade	Toughness Category	Thickness, mm	Width, m	Length ³ , m
300WT/44WT 350WT/50WT	Cat 1 Cat 2	5 - <19	Less than 1.83	Inquire
			1.83 – 3.05	To 24.5
	19 - 75	Less than 1.83	Inquire	
		1.83 – 3.05	To 28.95	
350AT/50AT	Cat 3 Cat 4	5 - <19	Less than 1.83	Inquire
			1.83 – 3.05	To 24.5
	19 - 50 ⁴	Less than 1.83	Inquire	
		1.83 – 3.05	To 28.95	
480AT/70AT	Cat 1, 2, 3	Inquire ⁵	1.83 - 2.615	To 28.95

Sales Contacts

For sales information, please call 877-722-2589 (Southern US & Mexico), 800-340-5566 (Western and Central US), 800-383-9031 (North Central US), and 888-576-8530 (Northeast US & Canada) or consult www.ssab.com.

³ Minimum length of 6.1 m but shorter lengths may be supplied. Inquire for lengths exceeding those identified up to a maximum length of 31 m with a maximum plate weight of 30 t.

⁴ Inquire for thicknesses over 50 to 75 mm; may be available in the normalized condition at maximum length of 15.2 m.

⁵ Inquire for thickness 19 to 50 mm.