

## Structural Steel Plate for Bridges

SSAB North America'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 meets the requirements of AASHTO Specification M270, ASTM A 709, or individual ASTM structural plate specifications. The following table summarizes the steel specifications to which SSAB bridge plate may be ordered.

### *BRIDGE STEEL PLATE AVAILABLE FROM SSAB NORTH AMERICA*

AASHTO M270 Grades U.S. [SI]	ASTM A709 Grades	Comparable ASTM Grades
36 [250]	36	A36
50 [345]	50	A572 Gr. 50
50W [345W]	50W	A588
HPS 50W [HPS 345W]	HPS 50W	
HPS 70W [HPS 485W]	HPS 70W	





# Structural Steel Plate for Bridges

## SIZE AVAILABILITY

SSAB North America's U.S. steelworks are capable of producing plate up to 120" wide in thicknesses from 3/16" to 3". The following tables identify SSAB's bridge plate capabilities for both Non-Fracture-Critical, T, Tension Components and Fracture-Critical, F, Tension Components as a function of specified impact testing requirements. The product capability charts for specific grades and impact testing requirement combinations are presented in Tables 1 through 4.

Bridge Plate Availability, Non-Fracture-Critical, T, Tension Components						
Grade	Plate Thicknesses Available	Width	Length	Available Plate Thickness with CVN Requirements		
				Zone 1	Zone 2	Zone 3
36	to 3"	Table 1	Table 1	0.188"-3.00"	0.188"-3.00"	0.188"-3.00"
50	to 3"			0.188"-3.00"	0.188"-3.00"	0.188"-3.00"
50W	to 3"			0.188"-3.00"	0.188"-3.00"	0.188"-3.00"
HPS 50W	to 2"	Table 2	Table 2	0.500"-2.00"	0.500"-2.00"	0.500"-2.00"
HPS 70W	to 2"	Table 3	Table 3	0.750"-2.00"	0.750"-2.00"	0.750"-2.00"

Bridge Plate Availability, Fracture-Critical, F, Tension Components						
Grade	Plate Thicknesses Available	Width	Length	Available Plate Thickness with CVN Requirements		
				Zone 1	Zone 2	Zone 3
36	to 3"	Table 1	Table 1	0.188"-3.00"	0.188"-3.00"	0.188"-3.00"
50	to 2"	Table 4	Table 4	0.188"-2.00"	0.188"-2.00"	0.188"-2.00"
50W	to 2"			0.188"-2.00"	0.188"-2.00"	0.188"-2.00"
HPS 50W	to 2"	Table 2	Table 2	0.500"-2.00"	0.500"-2.00"	0.500"-2.00"
HPS 70W	to 2"	Table 3	Table 3	0.750"-2.00"	0.750"-2.00"	0.750"-2.00"

*Please inquire for plate lengths exceeding those identified in Tables 1-4 up to a maximum length of 102 ft. (1224 in.) with a maximum plate weight of 74,000 lbs.*

### 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](http://www.ssab.com).



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**Table 1. Capability Chart, Non-Fracture Critical, A709-36, A709-50, A709-50W  
Fracture Critical A709-36**

Thickness	Min. Lgth	< 72"	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96		
0.1875	≤ 240", Inquire	Inquire	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	
0.2500			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.3125			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.3750			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.4375			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.5000			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.5625			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.6250			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.6875			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.7500			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
0.8152			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
0.8750			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
1.0000			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
1.1250			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
1.2500			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
1.5000			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
1.7500			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
2.0000			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1136	1124	1112	1100
2.2500			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1131	1118	1105	1092	1079	1067	1055	1043	1032	1021	1010	999	988	978
2.5000			1140	1140	1140	1127	1112	1097	1083	1070	1056	1043	1031	1018	1006	994	983	971	960	950	939	929	919	909	899	890	880	860	
2.7500			1067	1052	1038	1024	1011	998	985	972	960	948	937	926	915	904	893	883	873	863	854	844	835	826	817	809	800	784	
3.0000			978	965	952	939	927	915	903	891	880	869	859	848	838	829	819	809	800	791	782	774	765	757	749	741	734	718	

Notes: Standard widths 72", 84", 96", and 120". Minimum order quantities may be required for non-standard widths. Restricted flatness tolerance (1/2 ASTM A 6) is available for thicknesses > 5/16" to 2". For A709-50W, only Type B available for plate >2". *Please inquire for plate lengths exceeding those identified in Tables 1-4 up to a maximum length of 102 ft. (1224 in.) with a maximum plate weight of 74,000 lbs.*



# Structural Steel Plate for Bridges

**Table 1 (continued). Capability Chart, Non-Fracture Critical, A709-36, A709-50, A709-50W  
Fracture Critical A709-36**

Thickness	Min. Lgth	< 72"	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	
0.1875																											
0.2500			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.3125			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.3750			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.4375			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.5000			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.5625			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.6250			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.6875			972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
0.7500			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
0.8152			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
0.8750			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
1.0000			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
1.1250			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
1.2500			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
1.5000			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
1.7500			1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1139	1128	1118	1108	1097	1088	1078	1068	1059	1050	1041	1032	1023	1014	1006
2.0000			1089	1078	1067	1056	1046	1036	1026	1016	1006	997	987	978	969	960	952	943	935	927	919	911	903	895	888	880	
2.2500			968	958	948	939	930	921	912	903	894	886	878	869	861	854	846	838	831	824	816	809	803	796	789	782	
2.5000			871	862	854	845	837	829	820	813	805	797	790	782	775	768	761	755	748	741	735	729	722	716	710	704	
2.7500			792	784	776	768	761	753	746	739	732	725	718	711	705	698	692	686	680	674	668	662	657	651	646	640	
3.0000			726	719	711	704	697	690	684	677	671	664	658	652	646	640	634	629	623	618	612	607	602	597	592	587	

Notes: Standard widths 72", 84", 96", and 120". Minimum order quantities may be required for non-standard widths. Restricted flatness tolerance (1/2 ASTM A6) is available for thicknesses > 5/16" to 2". For A709-50W, only Type B available for plate >2". *Please inquire for plate lengths exceeding those identified in Tables 1-4 up to a maximum length of 102 ft. (1224 in.) with a maximum plate weight of 74,000 lbs.*





## Structural Steel Plate for Bridges

**Table 3. Capability Chart, Non-Fracture Critical and Fracture Critical, A709-HPS 70W TMCP**

Thickness	Min. Lgth	< 72"	72-95	96	97	98	99	100	101	102	103		
0.1875	< 240", Inquire	Inquire											
0.2500													
0.3125													
0.3750													
0.4375													
0.5000													
0.5625													
0.6250													
0.6875													
0.7500					1140	1140	1140	1140	1140	1140	1140	1140	1140
0.8152					1140	1140	1140	1140	1140	1140	1140	1140	1140
0.8750					1140	1140	1140	1140	1140	1140	1140	1140	1140
1.0000					1140	1140	1140	1140	1140	1140	1140	1140	1140
1.1250					1140	1140	1140	1140	1140	1140	1140	1140	1140
1.2500					1140	1140	1140	1140	1140	1140	1140	1140	1140
1.5000					1104	1104	1104	1104	1104	1104	1104	1104	1104
1.7500					1104	1104	1104	1104	1104	1104	1104	1104	1104
2.0000					1104	1100	1089	1078	1067	1056	1046	1036	1026
2.2500													
2.5000													
2.7500													
3.0000													

Notes: Standard widths 72", 84", 96", and 120". Minimum order quantities may be required for non-standard widths. A709 HPS 70W only available as full standard flatness tolerance (ASTM A6). Inquire for plate width > 103".

