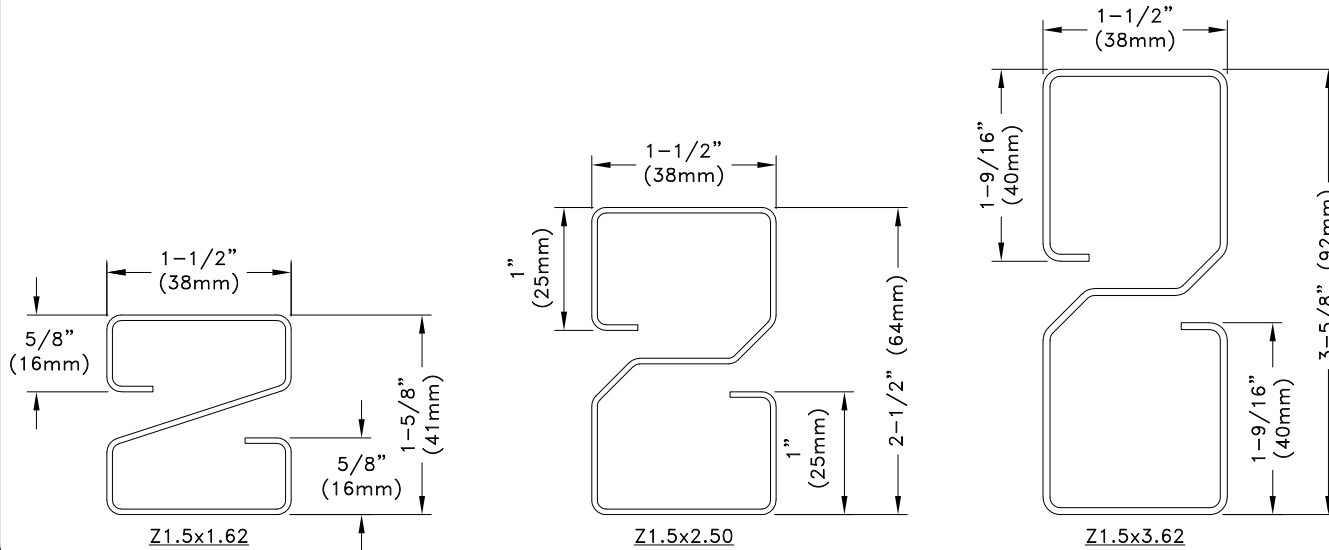


IMPERIAL Z-WEB VALUES

SECTION NAME	GAUGE	DESIGN THICKNESS (in)	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	FULL SECTION PROPERTIES					FULLY BRACED ALLOWABLES			WEIGHT (lbs./ft.)
					A <sub>g</sub> (in <sup>2</sup> )	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	I <sub>y</sub> (in <sup>4</sup> )	S <sub>y</sub> (in <sup>3</sup> )	T <sub>a</sub> (lbs.)	P <sub>a</sub> (lbs.)	M <sub>ax</sub> (in-lbs.)	
33Z1.5X1.62	20	0.0346	40	55	0.2496	0.0851	0.1047	0.0731	0.0974	5,979	5,397	2,474	0.849
43Z1.5X1.62	18	0.0451	40	55	0.3218	0.1087	0.1338	0.0926	0.1235	7,707	7,150	3,204	1.094
33Z1.5X2.50	20	0.0346	40	55	0.3070	0.2333	0.1867	0.1030	0.1374	7,353	6,759	4,416	1.044
43Z1.5X2.50	18	0.0451	40	55	0.3966	0.2998	0.2398	0.1311	0.1748	9,499	8,813	5,744	1.348
43Z1.5X3.62	18	0.0451	40	55	0.4980	0.7437	0.4103	0.1848	0.2464	11,929	10,611	9,796	1.693
54Z1.5X3.62	16	0.0566	50	65	0.6163	0.9157	0.5052	0.2242	0.2990	18,452	16,554	15,078	2.095

METRIC Z-WEB VALUES

SECTION NAME	GAUGE	DESIGN THICKNESS (mm)	F <sub>y</sub> (MPa)	F <sub>u</sub> (MPa)	FULL SECTION PROPERTIES					FULLY BRACED ALLOWABLES			WEIGHT (kN/m)
					A <sub>g</sub> (mm <sup>2</sup> )	I <sub>x</sub> (mm <sup>4</sup> )	S <sub>x</sub> (mm <sup>3</sup> )	I <sub>y</sub> (mm <sup>4</sup> )	S <sub>y</sub> (mm <sup>3</sup> )	T <sub>a</sub> (kN)	P <sub>a</sub> (kN)	M <sub>ax</sub> (kN-mm)	
33Z1.5X1.62	20	0.8788	276	379	161	35,421	1,716	30,427	1,596	26.60	24.01	279.5	0.012
43Z1.5X1.62	18	1.1455	276	379	208	45,244	2,193	38,543	2,024	34.28	31.80	362.0	0.160
33Z1.5X2.50	20	0.8788	276	379	198	97,107	3,059	42,872	2,252	32.71	30.07	499.0	0.152
43Z1.5X2.50	18	1.1455	276	379	256	124,786	3,930	54,568	2,864	42.25	39.20	649.0	0.197
43Z1.5X3.62	18	1.1455	276	379	321	309,551	6,724	76,920	4,038	53.06	47.20	1,107.0	0.247
54Z1.5X3.62	16	1.4376	345	448	398	381,143	8,279	93,319	4,900	82.08	73.64	1,703.6	0.306



General Notes:

1. All steel is ASTM A653 steel with G90 minimum galvanization. Bare metal thickness is 95% of design thickness.
2. T<sub>a</sub> = Allowable Tension, P<sub>a</sub> = Allowable Compression, M<sub>ax</sub> = Allowable Moment
3. The allowable values given in this table do not reflect any strength increase due to cold work of forming.
4. Properties determined according to the 2020 supplement to AISI 2016 "North American Specification for the Design of Cold-Formed Steel Structural Members" (S100-16/S2-20).



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TSC3.00 & TSC4.00  
Z-Web Properties

Alpine, a division of ITW Building Components Group, Inc. shall not be responsible for any performance failure in a connection due to a deviation from this detail. Any variation from this detail shall be approved in advance by Alpine, a division of ITW Building Components Group, Inc.

Standard Detail:  
TS010A

Date:  
06/01/22

TrusSteel Detail Category:  
Member Section Properties