

SECTION PROPERTIES								ALLOWABLE UNIFORM LIVE LOADS PSF ^{1,2,3,4} (3 or More Equal Spans)											
GA.	Width (in.)	Yield KSI	Weight PSF	Top in Compression ¹		Bottom in Compression ¹		Inward (Gravity / Deflection) Load ^{2,4}						Outward Uplift (Stress) Load ³					
				Ixx In ⁴ /ft	Sxx In ³ /ft	Ixx In ⁴ /ft	Sxx In ³ /ft	2.5'	3'	3.5'	4'	4.5'	5'	2.5'	3'	3.5'	4'	4.5'	5'
24	16"	50	1.35	.1785	.1013	.1058	.0898	283	206	156	122	97	80	410	300	229	180	144	119
22	16"	50	1.74	.2468	.1419	.1463	.1198	401	287	215	167	133	108	609	440	332	259	207	169
24	18"	50	1.31	.2233	.1255	.1300	.1065	252	183	139	108	87	71	364	267	203	160	128	105
22	18"	50	1.69	.1620	.0900	.0940	.0800	356	255	191	148	118	96	539	390	294	229	183	150

- Theoretical section properties have been calculated per AISI 1996. "Specifications for the design of cold formed steel members." Ixx and Sxx are effective section properties for deflection and bending.
- Tabulated gravity loads are allowable loads calculated in accordance with AISI 1996 specifications considering, bending, shear, and combine stresses. (Combined bending and web crippling is omitted per AISI section C 3.5). Gravity Load considers worst of 3 and 4 multiple equal span condition. Panel weight has not been accounted for in gravity load tables. Allowable loads do not address web crippling requirement or fastener/support connection.
- Allowable wind uplift loads have been increased by 33¹/₃% and are based on AISI 1996 "specifications for the Design of Cold Formed Steel Members". **Note: During uplift or suction condition, panel flat will deflect due to upward load changing shape and reducing these loads. Contact Metal Sales Technical Services for ASTM E-1592 uplift design loads.**
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.