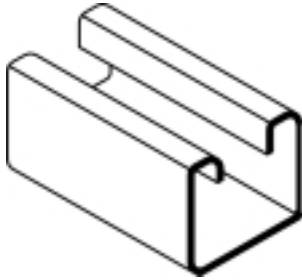
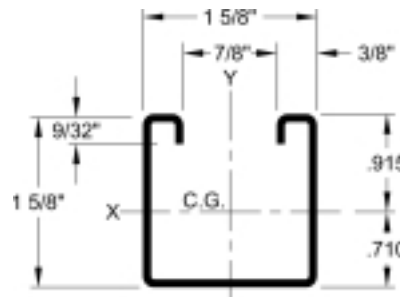


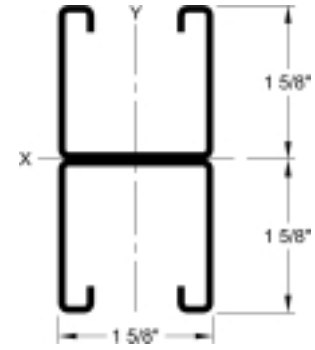
A-14 CHANNEL



Metal thickness is 14 Ga. (.075")



A-14



A-14A

Elements of Section

Channel Catalog Number	Weight lbs./ft.	Area of Section Sq. In.	AXIS X-X			AXIS Y-Y		
			I(in. ⁴)	S(in. ³)	R(in.)	I(in. ⁴)	S(in. ³)	R(in.)
A-14	1.35	.398	.142	.155	.597	.177	.215	.655
A-14A	2.70	.796	.685	.421	.927	.354	.430	.655

I = Moment of inertia

S = Section modulus

R = Radius of gyration

Beam and Column Loads Data

Channel Catalog Number	Beam Span or Unbraced Column Height	Uniform Load at Stress of 25,000 PSI (lbs.)	Deflection at Stress of 25,000 PSI (in.)	Uniform Load (lbs.) When Maximum Deflection = $\frac{\text{SPAN}}{240}$	Maximum Allowable Load of Column (lbs.)
A-14	18"	1850	.034	1850	7500
	24"	1360	.059	1360	6790
	30"	1050	.089	1050	6350
	36"	900	.133	900	6000
	42"	760	.178	760	5400
	48"	660	.230	572	4750
	60"	535	.365	366	4120
	72"	445	.525	254	3320
	84"	375	.702	186	2800
	96"	333	.931	143	2250
A-14A	120"	260	1.420	91	1520
	18"	5000	.019	5000	16500
	24"	3700	.033	3700	15000
	30"	2900	.051	2900	14250
	36"	2400	.073	2400	13950
	42"	2100	.102	2100	13500
	48"	1800	.130	1800	13100
	60"	1500	.212	1500	12000
	72"	1220	.298	1220	10950
	84"	1050	.407	900	9600
96"	900	.522	689	7550	
120"	725	.849	441	4000	

Beam loads: Loads listed are uniformly distributed, for loads concentrated at center of span multiply uniform load at table by .5 and multiply the deflection by .8. When deflection is not a factor use stress of 25,000 PSI. When deflection is a factor use deflection of $\frac{\text{SPAN}}{240}$.

Column loads: Loads listed are for unbraced heights as listed. Modulus of elasticity = 29,000,000 PSI. Slotted or punched channel reduce load rating 10%.