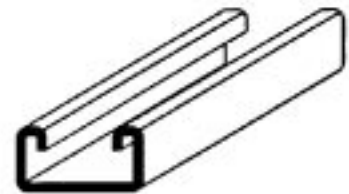
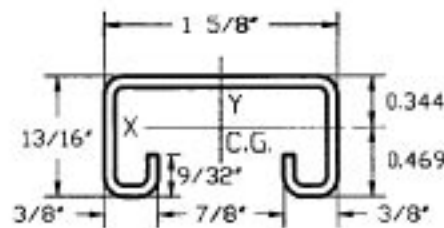
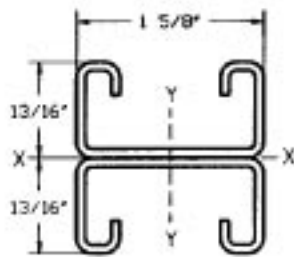


C-14 CHANNEL



ELEMENTS OF SECTION								
Channel Part #	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.)
C-14	1.000	.275	.028	.060	.319	.116	.142	.649
C-14A	2.000	.550	.121	.149	.469	.232	.284	.649

I = Moment of inertia

S = section modulus

R = radius of gyration

BEAM AND COLUMN LOADS DATA					
Channel Part #	BEAM SPAN or Unbraced Column Height	UNIFORM LOAD at Stress of 25,000 PSI (lbs.)	DEFLECTION at Stress of 25,000 PSI (lbs.)	UNIFORM LOAD (lbs.) when Maximum Deflection = $\frac{8000}{240}$	Maximum Allowable Load of Column (lbs.)
C-14	18"	667	.062	667	5488
	24"	500	.111	451	4968
	30"	400	.173	289	3545
	36"	333	.249	200	3076
	42"	286	.339	147	2053
	48"	250	.443	113	1730
	54"	222	.561	59	1252
	60"	200	.693	72	1107**
	72"	167	.998	50	769**
	84"	143	1.358	37	565**
	96"	125	1.773	28	-
	108"	111	2.244	22	-
C-14A	18"	1656	.036	1656	11807
	24"	1242	.064	1242	11663
	30"	993	.100	993	10362
	36"	828	.143	828	10026
	42"	710	.195	637	8122
	48"	621	.255	487	7734
	54"	552	.322	385	5504
	60"	497	.398	312	5134
	72"	414	.573	217	3566
	84"	355	.780	159	2620
	96"	310	1.019	122	2006**
	108"	276	1.290	96	1585**
120"	248	1.592	78	1284**	

BEAM LOADS - Loads listed are uniformly distributed. When deflection is not a factor, use stress of 25,000 PSI.

When deflection is a factor use deflection of $\frac{8000}{240}$.

COLUMN LOADS - Loads listed are for unbraced height, K=1.0.
Modules of elasticity = 29,000,000 PSI.

** $\frac{KL}{r}$ exceeds 200