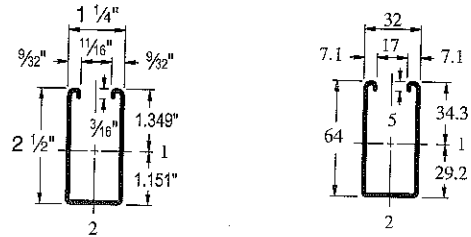
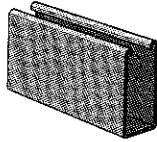


A5000 - 1 1/4" x 2 1/2"



Wt/100 Ft: 167 Lbs (249 kg/100m)
 Allowable Moment 6,670 In-Lbs (750 N·m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A5000 - BEAM LOADING

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load Lbs	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	2,220	0.04	2,220	2,220	2,220
36	1,480	0.09	1,480	1,480	1,480
48	1,110	0.15	1,110	1,110	980
60	890	0.24	890	890	630
72	740	0.34	740	650	430
84	640	0.47	640	480	320
96	560	0.61	490	370	240
108	490	0.76	390	290	190
120	440	0.94	310	230	160

A5000 - BEAM LOADING (METRIC)

Span mm	Max Allowable Uniform Load kN	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kN	Span/240 kN	Span/360 kN
600	10.1	1	10.1	10.1	10.1
750	8.1	1	8.1	8.1	8.1
1,000	6.1	3	6.1	6.1	6.1
1,250	4.8	4	4.8	4.8	4.1
1,500	4.0	6	4.0	4.0	2.9
1,750	3.4	8	3.4	3.2	2.1
2,000	3.0	10	3.0	2.4	1.6
2,500	2.4	16	2.1	1.6	1.0
3,000	2.0	23	1.4	1.1	0.7

A5000 - COLUMN LOADING

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Max. Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	2,790	7,950	6,670	5,080	3,760
36	1,950	5,270	3,760	2,600	1,970
48	1,360	3,290	2,350	1,690	1,330
60	990	2,300	1,690	1,260	1,010
72	790	1,750	1,330	1,010	830
84	660	1,420	1,100	860	710
96	570	1,200	940	740	**
108	510	1,040	830	**	**
120	460	930	740	**	**

A5000 - COLUMN LOADING (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kN	Max. Column Load Applied at C.G.			
		K = 0.65 kN	K = 0.80 kN	K = 1.0 kN	K = 1.2 kN
600	12.5	35.8	30.2	23.1	17.2
750	10.7	29.7	23.1	16.0	11.9
1,000	7.8	20.5	14.4	10.1	7.7
1,250	5.8	14.0	10.1	7.3	5.7
1,500	4.5	10.5	7.7	5.7	4.6
1,750	3.7	8.3	6.2	4.8	3.9
2,000	3.2	6.9	5.3	4.1	3.3
2,250	2.8	5.9	4.6	3.6	3.0
2,500	2.5	5.2	4.1	3.2	**

A5000 - ELEMENTS OF SECTION

Parameter	A5000	
Area of Section	0.492	In ²
Axis 1-1		
Moment of Inertia (I)	0.358	In ⁴
Section Modulus (S)	0.265	In ³
Radius of Gyration (r)	0.853	In
Axis 2-2		
Moment of Inertia (I)	0.143	In ⁴
Section Modulus (S)	0.229	In ³
Radius of Gyration (r)	0.539	In

A5000 - ELEMENTS OF SECTION (METRIC)

Parameter	A5000	
Area of Section	3.17	cm ²
Axis 1-1		
Moment of Inertia (I)	14.91	cm ⁴
Section Modulus (S)	4.35	cm ³
Radius of Gyration (r)	2.17	cm
Axis 2-2		
Moment of Inertia (I)	5.94	cm ⁴
Section Modulus (S)	3.74	cm ³
Radius of Gyration (r)	1.37	cm

Notes:

* Load limited by spot weld shear.

** $K_{1/2} > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- Allowable uniformly distributed loads are listed for various simple spans, that is, a beam on two supports. If load is concentrated at the center of the span, multiply load from the table by 0.5 and corresponding deflection by 0.8.