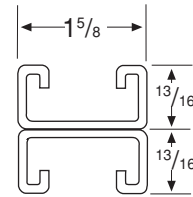
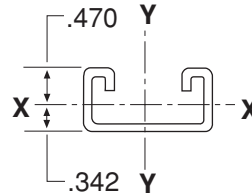
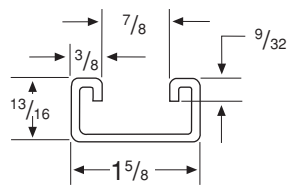
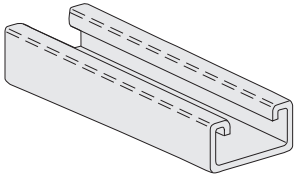


1301-1342

1 5/8" X 13/16" X 14 Gauge

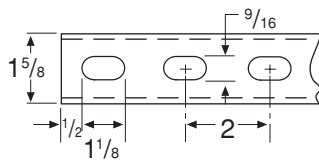
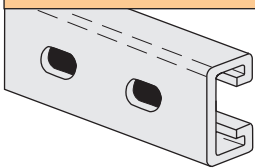


ORDERING:
Specify Figure No.,
finish and number
of feet.

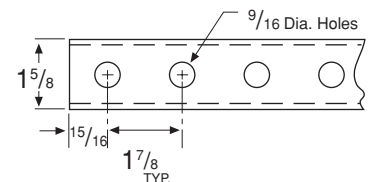
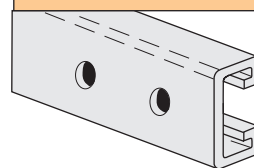
Fig. Number		Type - Description	Weight Per Foot (in Lbs.)	Bundle Qty.	
10 ft.	20 ft.			10 ft.	20 ft.
1301	1302	No Openings	.93	500	1000
1301A	1302A	Welded Back to Back	1.86	500	500
1311	1312	With 1 1/8" X 9/16" slots on 2" centers	.86	500	1000
1311A	1312A	Welded Back to Back	1.72	500	500
1321	1322	With 9/16" dia. holes on 1 7/8" centers	.88	500	1000
1321A	1322A	Welded Back to Back	1.92	500	500
1331	1332	With 3" slots	.87	500	1000
1341	1342	With 7/8" Knockouts on 6" centers	.97	500	1000

Available in aluminum and stainless steel. Price on request. To order aluminum, add suffix AL to fig. number. To order stainless steel, specify 304 or 316 and add suffix SS to fig. number.

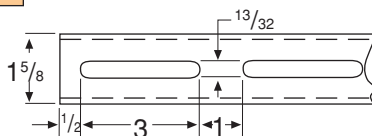
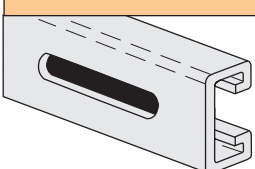
1311-1312



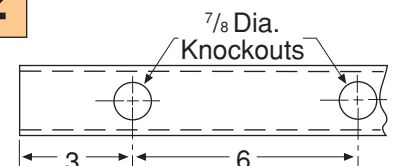
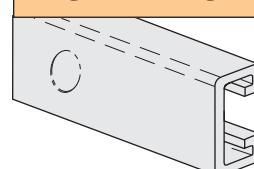
1321-1322



1331-1332



1341-1342



Elements of Selection

1301-1342

Figure Number	X-X Axis				Y-Y Axis		
	Area of Section Inches ²	Moment of Inertia Inches ⁴	Section Modulus Inches ³	Radius of Gyration Inches	Moment of Inertia Inches ⁴	Section Modulus Inches ³	Radius of Gyration Inches
1301	.295	.027	.056	.302	.110	.135	.610
1301A	.590	.122	.150	.455	.220	.270	.610

Modules of Elasticity: 29,500,000 PSI

Beam & Column Loads

Figure Number	Beam Span or Unbraced Column Height	Maximum Column Load (in Lbs.)	Uniform Load @ 25,000 PSI (in Lbs.)	Deflection @ 25,000 PSI (in Inches)	Uniform Load @ 1/240 Span (in Lbs.)
1301	12"	6186	870	.03	870
1301A		12763	870*	.01	870*
1301	24"	5464	465	.11	430
1301A		12135	870*	.04	870*
1301	36"	4300	310	.24	191
1301A		11087	832	.14	832
1301	48"	2703	233	.43	108
1301A		9620	624	.25	499
1301	60"	1730	186	.68	69
1301A		7734	499	.39	319
1301	72"	1201	155	.97	48
1301A		5571	416	.56	222
1301	84"	-	133	1.32	35
1301A		4093	357	.76	163
1301	96"	-	116	1.73	27
1301A		3134	312	1.00	125
1301	108"	-	103	2.19	21
1301A		2476	277	1.27	98
1301	120"	-	93	2.70	17
1301A		-	250	1.56	80

Beam Loads

Loads listed are uniformly distributed, for loads concentrated at center of span multiply uniform load 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 1/240 Span. *Failure determined by weld shear.

Column Loads

Column loadings are for allowable axial loads for the unsupported heights listed and include a K value of .80. If eccentric, loads should be reduced according to standard practice.

For Fabricated Channels, reduce beam load values as follows:

1311 & 1312 15%
 1321 & 1322 10%
 1331 & 1332 30%
 1341 & 1342 5%

TECHNICAL DATA

SPOT WELDING

Resistance welding of back to back strut channel is accomplished by way of an AC powered press type spot welder. This equipment produces a series of spot welds from 2-1/2" to 3" apart continuously down the length of the channel. Consistency is maintained by the use of a highly sophisticated constant current weld control. This processor is capable of maintaining weld sequence, duration and current control along with other variables. Any deviations in the programmed parameters will issue forth an alarm or shut down fault, which is then investigated. Weld quality is tested every 300-350 welds through the use of a destructive test method.

Through the use of modern technology, destructive and non-destructive testing, the quality of strut can be maintained. Spot weld strut is fabricated in accordance with the R.W.M.A. guidelines for resistance welding.