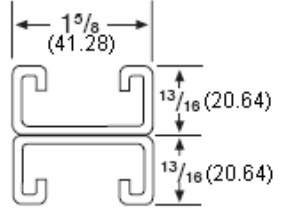
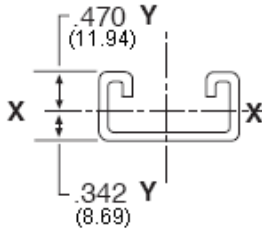
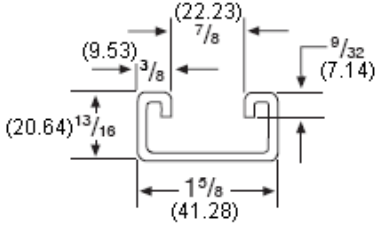
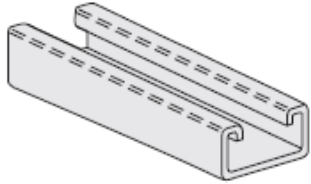




CHANNEL

1201 - 1242

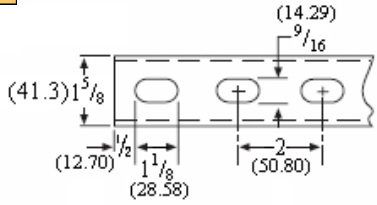
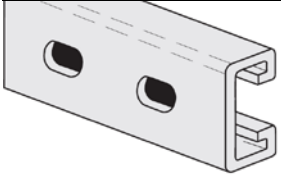
1⁵/₈" X 1³/₁₆" X 12 Gauge



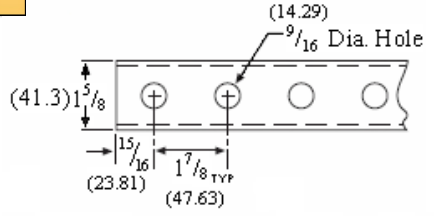
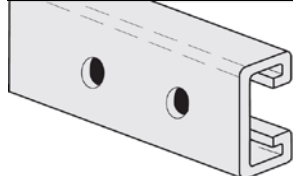
ORDERING:
Specify Figure No., finish and number of feet.

Fig. Number				Type - Description	Weight		Bundle Qty.			
10ft.	3.05m	20ft.	6.10m		lbs./ft.	kg/m	10ft.	3.05m	20ft.	6.10m
1201		1202		No Openings	1.22	(1.82)	500	(152.4)	1000	(304.8)
1201A		1202A		Welded Back to Back	2.52	(3.75)	500	(152.4)	500	(152.4)
1211		1212		With 1 ¹ / ₈ " X 9/16" (28.58 X 14.29) slots on 2" (50.8) centers	1.15	(1.71)	500	(152.4)	1000	(304.8)
1211A		1212A		Welded Back to Back	2.36	(3.51)	500	(152.4)	500	(152.4)
1221		1222		With 9/16" (14.29) dia. holes on 1 ⁷ / ₈ " (47.63) centers	1.16	(1.73)	500	(152.4)	1000	(304.8)
1221A		1222A		Welded Back to Back	2.40	(3.57)	500	(152.4)	500	(152.4)
1231		1232		With 3" (76.20) slots	1.15	(1.71)	500	(152.4)	1000	(304.8)
1241		1242		With 7/8" (22.23) Knockouts on 6" (152.40) centers	1.22	(1.82)	500	(152.4)	1000	(304.8)

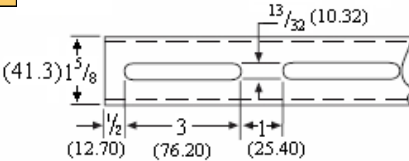
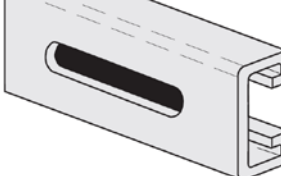
1211 - 1212



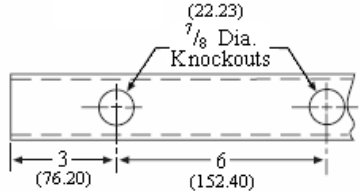
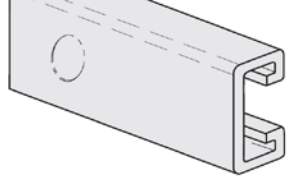
1221 - 1222



1231 - 1232



1241 - 1242



Unless otherwise specified, all dimensions on drawings and in charts are in inches and dimensions shown in parentheses are in millimeters.

Elements of Selection

1201 - 1242

Figure Number	X-X Axis								Y-Y Axis					
	Area of Section		Moment Of Inertia		Section Modulus		Radius of Gyration		Moment Of Inertia		Section Modulus		Radius of Gyration	
	in. ²	cm ²	in. ⁴	cm ⁴	in. ³	cm ³	in.	cm	in. ⁴	cm ⁴	in. ³	cm ³	in.	cm
1201	0.376	(2.426)	0.033	(1.374)	0.068	(1.114)	0.297	(0.754)	0.115	(4.788)	0.142	(2.327)	0.554	(1.407)
1201A	0.752	(4.852)	0.148	(6.162)	0.182	(2.982)	0.444	(1.128)	0.23	(9.576)	0.284	(4.654)	0.554	(1.407)

Modules of Elasticity: 29,500,000 PSI (203,395.3mPa)

Beam & Column Loads

Figure Number	Beam Span or Unbraced Column Height		Maximum Column Load		Uniform Load		Deflection		Uniform Load @ 1/240 Span	
			Lbs.	kN	Lbs.	kN	In.	mm	Lbs.	kN
1201	12	(304.80)	8407	(37.40)	1079	(4.80)	.02	(0.51)	1079	(4.80)
1201A			19160	(85.23)	1270*	(5.65)	.01	(0.25)	1270*	(5.65)
1201	24	(609.60)	7519	(33.45)	539	(2.40)	.10	(2.54)	506	(2.25)
1201A			17444	(77.59)	1270*	(5.65)	.05	(1.27)	1270*	(5.65)
1201	36	(914.40)	5397	(24.01)	360	(1.60)	.24	(6.10)	225	(1.00)
1201A			15275	(67.95)	1013	(4.51)	.14	(3.56)	1013	(4.51)
1201	48	(1219.20)	3178	(14.14)	270	(1.20)	.43	(10.92)	126	(0.56)
1201A			12692	(56.46)	759	(3.38)	.25	(6.35)	607	(2.70)
1201	60	(1524.00)	2034	(9.05)	216	(0.96)	.67	(17.02)	81	(0.36)
1201A			9683	(43.07)	608	(2.70)	.39	(9.91)	388	(1.73)
1201	72	(1828.80)	--	--	180	(0.80)	.96	(24.38)	56	(0.25)
1201A			6780	(30.16)	506	(2.25)	.56	(14.22)	270	(1.20)
1201	84	(2133.60)	--	--	154	(0.69)	1.31	(33.27)	41	(0.18)
1201A			4981	(22.16)	434	(1.93)	.77	(19.56)	198	(0.88)
1201	96	(2438.40)	--	--	135	(0.60)	1.71	(43.43)	32	(0.14)
1201A			3814	(16.97)	380	(1.69)	1.00	(25.40)	152	(0.68)
1201	108	(2743.20)	--	--	120	(0.53)	2.16	(54.86)	25	(0.11)
1201A			3013	(13.40)	338	(1.50)	1.27	(32.26)	120	(0.53)
1201	120	(3048.00)	--	--	108	(0.48)	2.67	(67.82)	20	(0.09)
1201A			--	--	304	(1.35)	1.56	(39.62)	97	(0.43)

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 (172.37 mPa). 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:

1211 & 1212	15%
1221 & 1222	10%
1231 & 1232	30%
1241 & 1242	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" (50.8) to 4" (101.6) 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.

Unless otherwise specified, all dimensions on drawings and in charts are in inches and dimensions shown in parentheses are in millimeters.