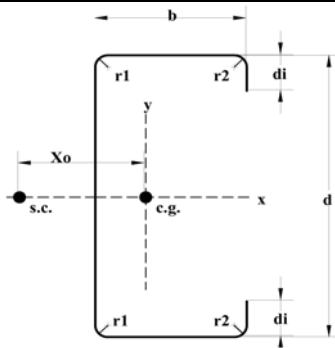


MERCURY METALS

Imperial - L.S.D.

Table 'A'

Mercury 'C' Sections



Full Section Properties for Mercury 'C' Sections

Designation	Weight lb. / ft	Area in ²	Depth in	Flange Width in	Stiff'r Depth in	Thick- ness in	Full Section Properties										
							X - X Axis			Y - Y Axis			Xo in	ro in	J 10 ⁻⁶ in ⁴	j in	Cw in ⁶
							Ix in ⁴	Sx in ³	rx in	Iy in ⁴	Sy in ³	ry in					
C 6 x .060	2.67	0.786	6.12	3.03	0.77	0.060	4.89	1.60	2.50	0.93	0.95	1.09	2.37	3.61	943	3.87	8.10
C 6 x .075	3.34	0.982	6.15	3.03	0.78	0.075	6.13	1.99	2.50	1.15	1.18	1.08	2.36	3.60	1842	3.84	10.06
C 6 x .105	4.68	1.375	6.21	3.03	0.81	0.105	8.63	2.78	2.51	1.59	1.62	1.07	2.33	3.59	5053	3.79	13.92
C 8 x .060	3.08	0.906	8.12	3.03	0.77	0.060	9.32	2.30	3.21	1.02	1.20	1.06	2.14	4.00	1087	4.74	14.73
C 8 x .075	3.85	1.132	8.15	3.03	0.78	0.075	11.68	2.87	3.21	1.27	1.49	1.06	2.13	4.00	2123	4.71	18.28
C 8 x .105	5.39	1.585	8.21	3.03	0.81	0.105	16.41	4.00	3.22	1.74	2.03	1.05	2.10	3.98	5825	4.66	25.16
C 10 x .060	3.49	1.026	10.12	3.03	0.77	0.060	15.55	3.07	3.89	1.09	1.45	1.03	1.96	4.48	1231	5.96	23.86
C 10 x .075	4.36	1.282	10.15	3.03	0.78	0.075	19.46	3.84	3.90	1.35	1.79	1.03	1.95	4.47	2404	5.93	29.55
C 10 x .105	6.11	1.795	10.21	3.03	0.81	0.105	27.33	5.35	3.90	1.86	2.44	1.02	1.92	4.47	6597	5.87	40.61
C 12 x .060	3.90	1.146	12.12	3.03	0.77	0.060	23.81	3.93	4.56	1.15	1.70	1.00	1.81	5.00	1375	7.52	35.68
C 12 x .075	4.87	1.432	12.15	3.03	0.78	0.075	29.79	4.90	4.56	1.42	2.09	1.00	1.79	5.00	2685	7.49	44.15
C 12 x .105	6.82	2.005	12.21	3.03	0.81	0.105	41.80	6.85	4.57	1.96	2.84	0.99	1.77	5.00	7369	7.42	60.57

Mercury 'C' Section Notes

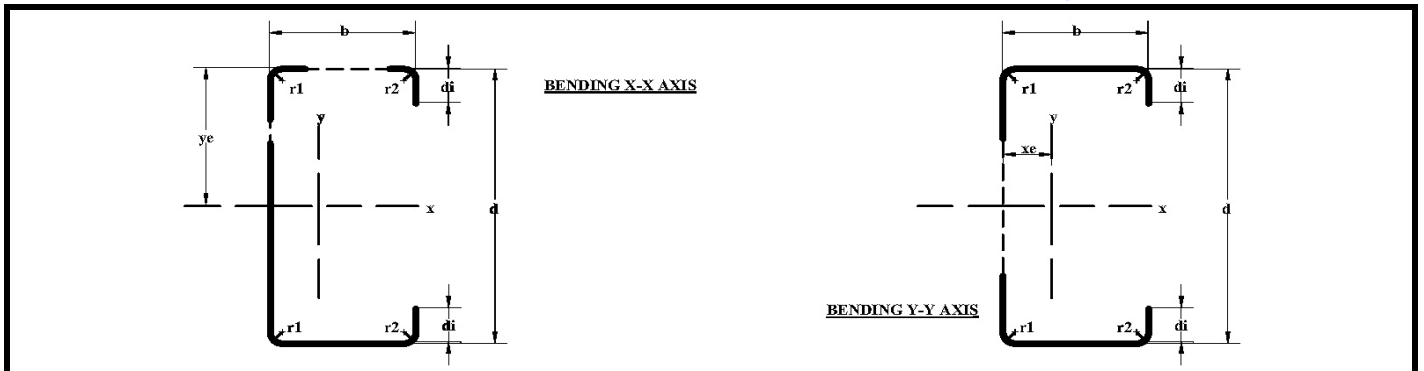
- 1) Load tables based on use of A653 Structural Quality Steel Sheet Grade 50 (maximum stress 45 Ksi).
- 2) All channels shall have Z-275 galvanizing protection.
- 3) See Table 'B' for Effective Section Properties and Table 'C' for Specified Load / Span Tables.

MERCURY METALS

Imperial - L.S.D.

Table 'B'

Mercury 'C' Sections



Effective Section Properties for Mercury 'C' Sections

Designation	Surf. Area	Effective Section Properties X - X Axis										Effective Section Properties Y - Y Axis						
		I _{xe}	S _{xe}	y _e	Mr _{xe}	V _{rex}	Ext Web Crippling			Int Web Crippling			I _{ye}	S _{ye}	x _e	M _{rey}	V _{rey}	Lu Lt
							Bear. L. in inches			Bear. L. in inches								
		ft ² /ft	in ⁴	in ³	in	K-in	K	2 K	4 K	6 K	2 K	4 K	6 K	in ⁴	in ³	in	K-in	K
C 6 x .060	2.19	4.40	1.34	3.28	60.4	5.1	1.01	1.23	1.40	1.78	1.98	2.14	0.77	0.62	1.24	28.0	8.1	54.7
C 6 x .075	2.19	5.92	1.89	3.13	85.1	9.1	1.52	1.84	2.08	3.01	3.32	3.56	1.01	0.85	1.18	38.4	10.1	54.6
C 6 x .105	2.20	8.63	2.78	3.09	125.1	16.6	2.44	3.13	3.79	6.07	6.82	7.53	1.51	1.37	1.10	61.8	13.9	54.6
C 8 x .060	2.53	8.51	1.96	4.35	88.1	3.7	1.00	1.23	1.40	1.60	1.78	1.91	0.77	0.63	1.23	28.2	8.1	54.2
C 8 x .075	2.53	11.33	2.70	4.19	121.7	7.2	1.52	1.83	2.08	2.75	3.03	3.25	1.01	0.87	1.16	38.9	10.1	54.1
C 8 x .105	2.53	16.41	4.00	4.11	180.0	17.8	2.44	3.13	3.78	5.65	6.35	7.01	1.51	1.41	1.07	63.5	13.9	53.9
C 10 x .060	2.86	13.96	2.53	5.53	113.7	2.9	1.00	1.22	1.39	1.43	1.60	1.72	0.77	0.63	1.22	28.5	8.1	53.7
C 10 x .075	2.86	18.66	3.51	5.32	157.9	5.7	1.51	1.83	2.07	2.52	2.78	2.98	1.01	0.88	1.16	39.5	10.1	53.5
C 10 x .105	2.87	27.33	5.35	5.12	240.8	15.6	2.44	3.13	3.78	5.29	5.94	6.56	1.52	1.44	1.06	64.9	13.9	53.3
C 12 x .060	3.19	22.41	3.46	6.47	155.8	2.4	1.00	1.22	1.39	1.29	1.43	1.54	0.77	0.64	1.22	28.7	8.1	53.1
C 12 x .075	3.19	27.86	4.32	6.45	194.3	4.7	1.51	1.83	2.07	2.31	2.55	2.73	1.02	0.89	1.15	39.8	10.1	53.0
C 12 x .105	3.20	41.14	6.64	6.24	299.0	12.9	2.43	3.12	3.78	4.96	5.58	6.16	1.53	1.46	1.05	65.7	13.9	52.6

Mercury 'C' Section Notes

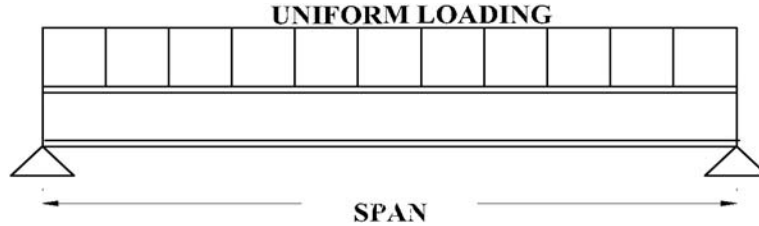
- 1) Load tables based on use of A653 Structural Quality Steel Sheet Grade 50 (maximum stress 45 Ksi).
- 2) All channels shall have Z-275 galvanizing protection.
- 3) Effective properties are used to calculate bending and compression capacities.
- 4) See Table 'A' for Full Section Properties and Table 'C' for Specified Load / Span Tables.
- 5) **Load capacities for bending, shear and web crippling on Table 'B' are factored values. For use of these values with Table 'C' divide the factored value by 1.5 to derive Specified values.**

MERCURY METALS

Imperial - L.S.D.

Table 'C'

Mercury 'C' Sections



Specified Bending & Deflection Loads for 'C' Sections

Span in Feet	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0	30.0	31.0
Designation	Specified Uniform Loading (x.xx denotes kips / lineal ft. and xxx denotes lb. / lineal ft.)																					
C 6 x .060	268	222	186	159	137	119	105	93	83	74	67	61	55	51	47	43	40	37	34	32	30	28
	351	264	203	160	128	104	86	71	60	51	44	38	33	29	25	22	20	18	16	14	13	12
C 6 x .075	378	313	263	224	193	168	148	131	117	105	95	86	78	72	66	61	56	52	48	45	42	39
	440	330	255	200	160	130	107	90	75	64	55	47	41	36	32	28	25	22	20	18	16	15
C 6 x .105	556	459	386	329	284	247	217	192	172	154	139	126	115	105	97	89	82	76	71	66	62	58
	619	465	358	282	226	183	151	126	106	90	77	67	58	51	45	40	35	31	28	25	23	21
C 8 x .060	391	323	272	232	200	174	153	135	121	108	98	89	81	74	68	63	58	54	50	47	43	41
	669	502	387	304	244	198	163	136	115	97	84	72	63	55	48	43	38	34	30	27	25	22
C 8 x .075	541	447	376	320	276	240	211	187	167	150	135	123	112	102	94	87	80	74	69	64	60	56
	838	630	485	382	305	248	205	171	144	122	105	91	79	69	61	54	48	43	38	34	31	28
C 8 x .105	800	661	556	473	408	356	312	277	247	222	200	181	165	151	139	128	118	110	102	95	89	83
	1.18	884	681	536	429	349	287	240	202	172	147	127	111	97	85	75	67	60	54	48	44	40
C 10 x .060	505	418	351	299	258	225	197	175	156	140	126	115	104	96	88	81	75	69	64	60	56	53
	1.12	838	645	508	406	330	272	227	191	163	139	120	105	92	81	71	63	57	51	46	41	37
C 10 x .075	702	580	487	415	358	312	274	243	217	194	175	159	145	133	122	112	104	96	89	83	78	73
	1.40	1.05	808	636	509	414	341	284	239	204	175	151	131	115	101	89	79	71	64	57	52	47
C 10 x .105	1.07	884	743	633	546	476	418	370	330	296	267	243	221	202	186	171	158	147	136	127	119	111
	1.96	1.47	1.13	892	714	581	479	399	336	286	245	212	184	161	142	125	112	100	89	80	73	66
C 12 x .060	692	572	481	410	353	308	270	240	214	192	173	157	143	131	120	111	102	95	88	82	77	72
	1.71	1.28	988	777	622	506	417	348	293	249	213	184	160	140	124	109	97	87	78	70	63	57
C 12 x .075	863	714	600	511	441	384	337	299	266	239	216	196	178	163	150	138	128	118	110	103	96	90
	2.14	1.61	1.24	973	779	633	522	435	367	312	267	231	201	176	155	137	122	109	97	88	79	72
C 12 x .105	1.33	1.10	923	786	678	591	519	460	410	368	332	301	275	251	231	213	197	182	169	158	148	138
	3.00	2.25	1.74	1.37	1.09	889	732	610	514	437	375	324	282	247	217	192	171	152	137	123	111	101

Mercury 'C' Section Notes

- 1) Load tables based on use of A653 Structural Quality Steel Sheet Grade 50 (maximum stress 45 Ksi).
- 2) All channels shall have Z-275 galvanizing protection.
- 3) Upper figure is maximum load for simple span bending. Lower figure is maximum load for simple span deflection for L / 180.
- 4) Bending & deflection load table is base on fully supported compression flange.
- 5) Table 'C' is for bending only. Check for shear and web crippling capacities on Table 'B'.
- 6) For deflection loads other than L / 180 multiply lower figure by the following factors:

DEFLECTION:	L / 90	L / 240	L / 360
MULTIPLIER:	2.00	0.75	0.50

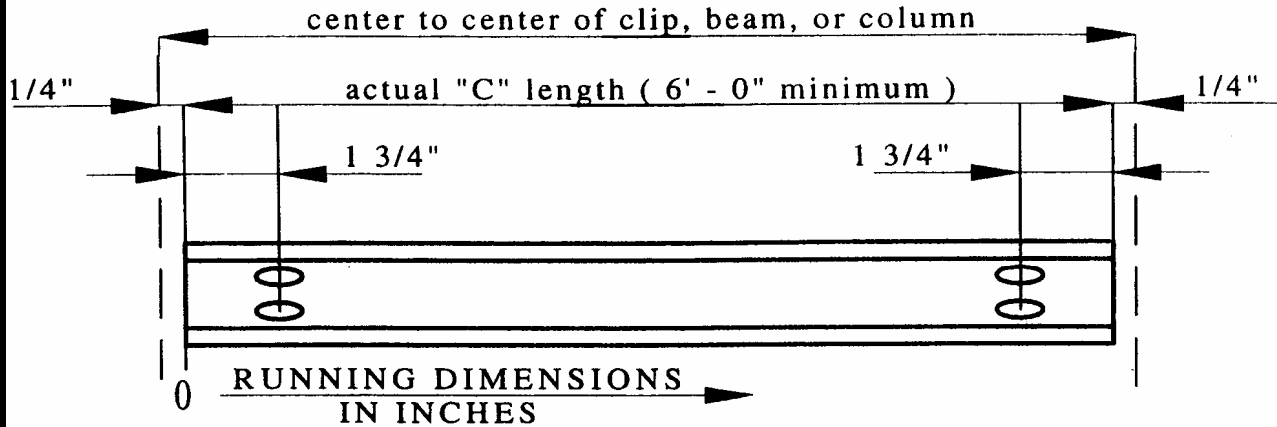
MERCURY METALS

Imperial - L.S.D.

Table 'D'

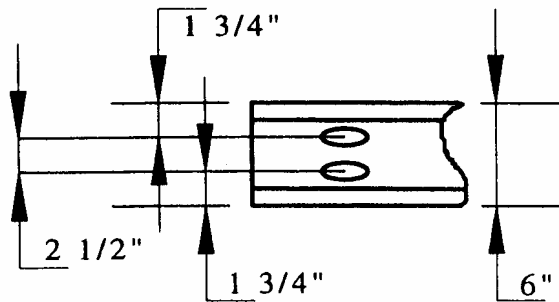
Mercury 'C' Sections

STANDARD HOLE LAYOUT FOR "C"

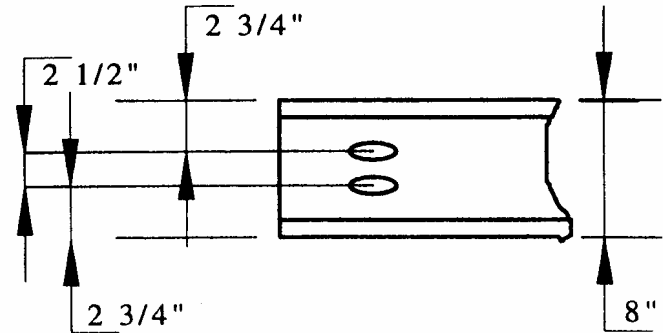


STANDARD HOLE PATTERN FOR "C"

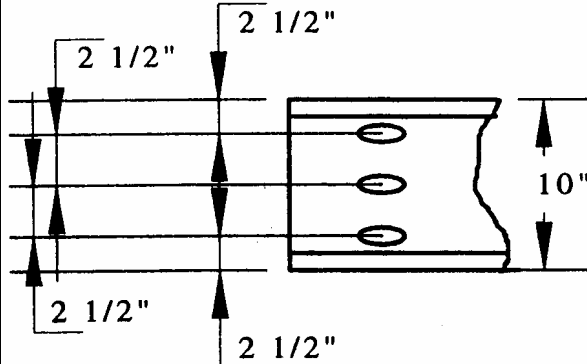
6" DEPTH i/i FLANGE



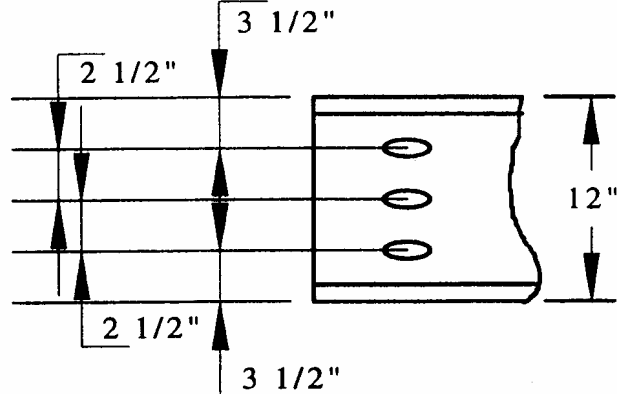
8" DEPTH i/i FLANGE



10" DEPTH i/i FLANGE



12" DEPTH i/i FLANGE



NOTES:

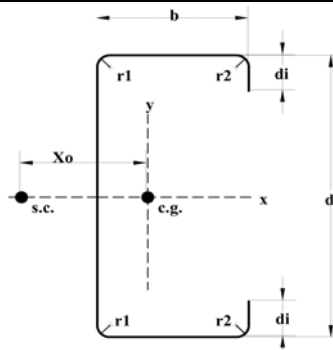
- 1) ALL HOLES ARE 9/16" DIAMETER x 1" LONG FOR 1/2" DIAMETER BOLTS.
- 2) "C" MAY BE ORDERED WITH OR WITHOUT STANDARD WEB HOLES.
- 3) INTERMEDIATE WEB HOLES (IN STANDARD PATTERN) ARE AVAILABLE AT AN ADDITIONAL CHARGE.
- 4) HOLES ALONG CENTERLINE OF FLANGES ARE AVAILABLE AT AN ADDITIONAL CHARGE.

MERCURY METALS

Metric - L.S.D.

Table 'A'

Mercury 'C' Sections



Full Section Properties for Mercury 'C' Sections

Designation	Mass kg/m	Area mm ²	Depth mm	Flange Width mm	Stiff'r Depth mm	Thick- ness mm	Full Section Properties										
							X - X Axis			Y - Y Axis			Xo	ro	J	j	Cw
							Ix 10 ⁶ mm ⁴	Sx 10 ³ mm ³	rx mm	Iy 10 ⁶ mm ⁴	Sy 10 ³ mm ³	ry mm					
C 152 x 1.52	3.98	507	155	77	19.5	1.52	2.04	26.2	63.4	0.39	15.6	27.6	60.2	91.7	0.392	98.2	2.17
C 152 x 1.91	4.97	634	156	77	19.9	1.91	2.55	32.7	63.5	0.48	19.3	27.5	59.9	91.5	0.767	97.5	2.70
C 152 x 2.67	6.96	887	158	77	20.7	2.67	3.59	45.5	63.6	0.66	26.5	27.3	59.2	91.1	2.103	96.2	3.74
C 203 x 1.52	4.59	584	206	77	19.5	1.52	3.88	37.6	81.5	0.43	19.7	27.0	54.4	101.6	0.452	120.4	3.96
C 203 x 1.91	5.74	731	207	77	19.9	1.91	4.86	47.0	81.6	0.53	24.4	26.9	54.0	101.5	0.884	119.7	4.91
C 203 x 2.67	8.03	887	209	77	20.7	2.67	6.83	65.5	81.7	0.73	33.3	26.6	53.4	101.2	2.425	118.2	6.76
C 254 x 1.52	5.19	662	257	77	19.5	1.52	6.47	50.3	98.9	0.45	23.8	26.2	49.7	113.7	0.512	151.4	6.41
C 254 x 1.91	6.49	827	258	77	19.9	1.91	8.10	62.8	99.0	0.56	29.3	26.1	49.4	113.6	1.001	150.6	7.94
C 254 x 2.67	9.09	1158	259	77	20.7	2.67	11.37	87.7	99.1	0.78	40.0	25.9	48.8	113.4	2.746	149.0	10.91
C 305 x 1.52	5.8	739	308	77	19.5	1.52	9.91	64.4	115.8	0.48	27.8	25.4	45.8	127.1	0.572	191.1	9.58
C 305 x 1.91	7.25	924	309	77	19.9	1.91	12.40	80.4	115.8	0.59	34.2	25.3	45.6	127.0	1.118	190.2	11.86
C 305 x 2.67	10.15	1294	310	77	20.7	2.67	17.40	112.2	116.0	0.82	46.5	25.1	45.0	126.9	3.067	188.4	16.26

Mercury 'C' Section Notes

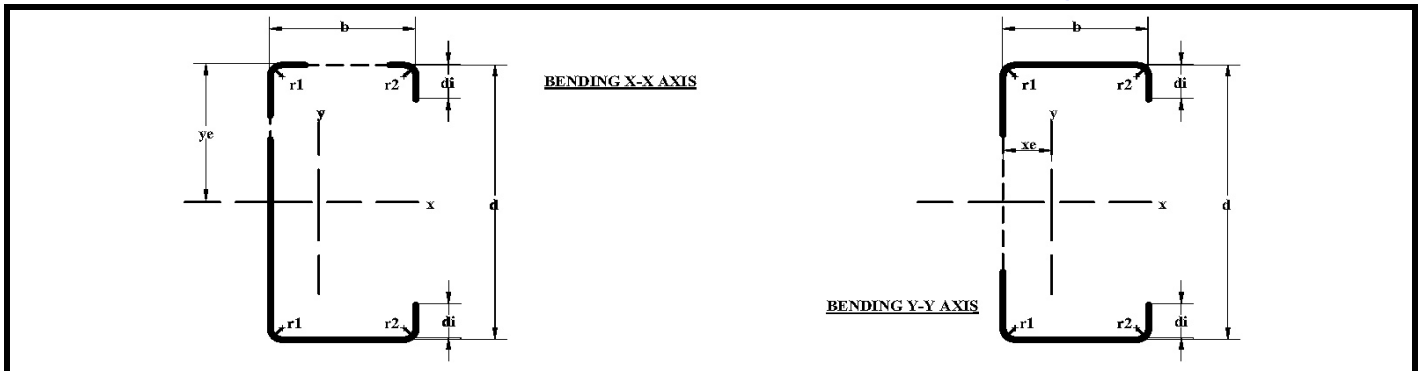
- 1) Load tables based on use of A653M Structural Quality Steel Sheet Grade 345 (maximum stress 310 Mpa).
- 2) All channels shall have Z-275 galvanizing protection.
- 3) See Table 'B' for Effective Section Properties and Table 'C' for Specified Load / Span Tables.

MERCURY METALS

Metric - L.S.D.

Table 'B'

Mercury 'C' Sections



Effective Section Properties for Mercury 'C' Sections

Designation	Surf. Area m ² /m	Effective Section Properties X - X Axis											Effective Section Properties Y - Y Axis					
		I _{xe} 10 ⁶ mm ⁴	S _{xe} 10 ³ mm ³	y _e mm	Mr _{xe} Kn-m	V _{rex} Kn	Ext Web Crippling			Int Web Crippling			I _{ye} 10 ⁶ mm ⁴	S _{ye} 10 ³ mm ³	x _e mm	M _{rey} Kn-m	V _{rey} Kn	Lu Lt
							Bear. L. in mm			Bear. L. in mm								
		50 Kn	100 Kn	150 Kn	50 Kn	100 Kn	150 Kn											
C 152 x 1.52	0.668	1.83	22.0	83.4	6.93	22.6	4.47	5.46	6.22	7.93	8.82	9.50	0.321	1.02	31.5	0.32	36.0	1389
C 152 x 1.91	0.669	2.47	31.0	79.5	9.77	40.5	6.75	8.17	9.25	13.40	14.79	15.85	0.420	1.40	30.1	0.44	44.7	1388
C 152 x 2.67	0.671	3.61	46.0	78.4	14.48	73.7	10.87	13.93	16.85	26.98	30.32	33.48	0.628	2.25	27.9	0.71	61.8	1388
C 203 x 1.52	0.770	3.54	32.1	110.4	10.10	16.5	4.46	5.45	6.21	7.10	7.90	8.51	0.319	1.03	31.1	0.32	36.0	1377
C 203 x 1.91	0.771	4.72	44.3	106.4	13.96	32.2	6.74	8.16	9.24	12.23	13.50	14.46	0.419	1.42	29.6	0.45	44.7	1374
C 203 x 2.67	0.772	6.94	66.5	104.3	20.95	79.4	10.85	13.92	16.83	25.14	28.24	31.19	0.627	2.31	27.1	0.73	61.8	1369
C 254 x 1.52	0.872	5.81	41.4	140.3	13.05	13.0	4.46	5.44	6.20	6.38	7.10	7.65	0.321	1.04	31.0	0.33	36.0	1364
C 254 x 1.91	0.872	7.77	57.5	135.1	18.11	25.4	6.73	8.15	9.23	11.20	12.36	13.25	0.422	1.44	29.4	0.45	44.7	1360
C 254 x 2.67	0.874	11.60	89.5	129.7	28.18	69.4	10.84	13.90	16.81	23.53	26.43	29.19	0.634	2.36	26.8	0.74	61.8	1353
C 305 x 1.52	0.973	9.33	56.7	161.2	17.87	10.7	4.45	5.44	6.19	5.73	6.38	6.87	0.322	1.04	30.9	0.33	36.0	1350
C 305 x 1.91	0.974	11.60	70.8	158.7	22.29	20.9	6.73	8.14	9.22	10.28	11.35	12.16	0.424	1.45	29.2	0.46	44.7	1346
C 305 x 2.67	0.975	13.60	108.9	124.9	34.30	57.3	10.83	13.89	16.79	22.08	24.80	27.39	0.637	2.39	26.6	0.75	61.8	1337

Mercury 'C' Section Notes

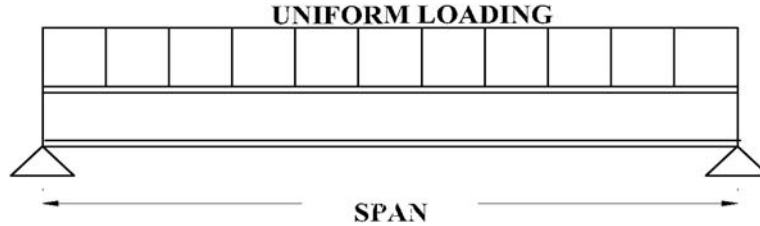
- 1) Load tables based on use of A653M Structural Quality Steel Sheet Grade 345 (maximum stress 310 Mpa).
- 2) All channels shall have Z-275 galvanizing protection.
- 3) Effective properties are used to calculate bending and compression capacities.
- 4) See Table 'A' for Full Section Properties and Table 'C' for Specified Load / Span Tables.
- 5) **Load capacities for bending, shear and web crippling on Table 'B' are factored values. For use of these values with Table 'C' divide the factored value by 1.5 to derive Specified values.**

MERCURY METALS

Metric - L.S.D.

Table 'C'

Mercury 'C' Sections



Specified Bending & Deflection Loads for 'C' Sections

Span in Meters	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3
Designation	Specified Uniform Loading (Kn / M)																					
C 152 x 1.52	4.05	3.34	2.81	2.39	2.06	1.80	1.58	1.40	1.25	1.12	1.01	0.92	0.84	0.76	0.70	0.65	0.60	0.55	0.52	0.48	0.45	0.42
	5.88	4.42	3.40	2.68	2.14	1.74	1.44	1.20	1.01	0.86	0.73	0.63	0.55	0.48	0.43	0.38	0.33	0.30	0.27	0.24	0.22	0.20
C 152 x 1.91	5.71	4.71	3.96	3.38	2.91	2.54	2.23	1.97	1.76	1.58	1.43	1.29	1.18	1.08	0.99	0.91	0.84	0.78	0.73	0.68	0.63	0.59
	7.91	5.94	4.58	3.60	2.88	2.34	1.93	1.61	1.36	1.15	0.99	0.85	0.74	0.65	0.57	0.51	0.45	0.40	0.36	0.32	0.29	0.27
C 152 x 2.67	8.46	6.99	5.88	5.01	4.32	3.76	3.30	2.93	2.61	2.34	2.12	1.92	1.75	1.60	1.47	1.35	1.25	1.16	1.08	1.01	0.94	0.88
	11.6	8.69	6.69	5.26	4.21	3.43	2.82	2.35	1.98	1.69	1.45	1.25	1.09	0.95	0.84	0.74	0.66	0.59	0.53	0.47	0.43	0.39
C 203 x 1.52	5.90	4.88	4.10	3.49	3.01	2.62	2.31	2.04	1.82	1.63	1.48	1.34	1.22	1.12	1.02	0.94	0.87	0.81	0.75	0.70	0.66	0.61
	11.4	8.53	6.57	5.17	4.14	3.36	2.77	2.31	1.95	1.66	1.42	1.23	1.07	0.93	0.82	0.73	0.65	0.58	0.52	0.47	0.42	0.38
C 203 x 1.91	8.15	6.74	5.66	4.83	4.16	3.62	3.19	2.82	2.52	2.26	2.04	1.85	1.68	1.54	1.42	1.30	1.21	1.12	1.04	0.97	0.91	0.85
	11.4	8.53	6.57	5.17	4.14	3.36	2.77	2.31	1.95	1.66	1.42	1.23	1.07	0.93	0.82	0.73	0.65	0.58	0.52	0.47	0.42	0.38
C 203 x 2.67	12.2	10.1	8.50	7.24	6.24	5.44	4.78	4.24	3.78	3.39	3.06	2.78	2.53	2.31	2.12	1.96	1.81	1.68	1.56	1.46	1.36	1.27
	22.2	16.7	12.9	10.1	8.11	6.59	5.43	4.53	3.81	3.24	2.78	2.40	2.09	1.83	1.61	1.42	1.27	1.13	1.01	0.91	0.82	0.75
C 254 x 1.52	7.62	6.30	5.29	4.51	3.89	3.39	2.98	2.64	2.35	2.11	1.91	1.73	1.57	1.44	1.32	1.22	1.13	1.05	0.97	0.91	0.85	0.79
	18.6	14.0	10.8	8.48	6.79	5.52	4.55	3.79	3.20	2.72	2.33	2.01	1.75	1.53	1.35	1.19	1.06	0.95	0.85	0.76	0.69	0.63
C 254 x 1.91	10.6	8.74	7.35	6.26	5.40	4.70	4.13	3.66	3.27	2.93	2.64	2.40	2.19	2.00	1.84	1.69	1.56	1.45	1.35	1.26	1.18	1.10
	24.9	18.7	14.4	11.3	9.08	7.38	6.08	5.07	4.27	3.63	3.11	2.69	2.34	2.05	1.80	1.59	1.42	1.27	1.13	1.02	0.92	0.84
C 254 x 2.67	16.5	13.6	11.4	9.74	8.40	7.32	6.43	5.70	5.08	4.56	4.12	3.73	3.40	3.11	2.86	2.63	2.44	2.26	2.10	1.96	1.83	1.71
	37.2	28.0	21.5	16.9	13.6	11.0	9.08	7.57	6.38	5.43	4.65	4.02	3.49	3.06	2.69	2.38	2.12	1.89	1.70	1.53	1.38	1.25
C 305 x 1.52	10.4	8.63	7.25	6.18	5.33	4.64	4.08	3.61	3.22	2.89	2.61	2.37	2.16	1.97	1.81	1.67	1.54	1.43	1.33	1.24	1.16	1.09
	29.9	22.5	17.3	13.6	10.9	8.87	7.30	6.09	5.13	4.36	3.74	3.23	2.81	2.46	2.16	1.91	1.70	1.52	1.36	1.23	1.11	1.00
C 305 x 1.91	13.0	10.8	9.04	7.70	6.64	5.79	5.09	4.50	4.02	3.61	3.25	2.95	2.69	2.46	2.26	2.08	1.93	1.79	1.66	1.55	1.45	1.35
	37.2	27.9	21.5	16.9	13.6	11.0	9.08	7.57	6.38	5.42	4.65	4.02	3.49	3.06	2.69	2.38	2.12	1.89	1.69	1.53	1.38	1.25
C 305 x 2.67	20.0	16.6	13.9	11.9	10.2	8.90	7.83	6.93	6.18	5.55	5.01	4.54	4.14	3.79	3.48	3.21	2.96	2.75	2.56	2.38	2.23	2.08
	43.6	32.8	25.2	19.9	15.9	12.9	10.7	8.88	7.48	6.36	5.45	4.71	4.10	3.59	3.16	2.79	2.48	2.22	1.99	1.79	1.62	1.46

Mercury 'C' Section Notes

- 1) Load tables based on use of A653M Structural Quality Steel Sheet Grade 345 (maximum stress 310 Mpa).
- 2) All channels shall have Z-275 galvanizing protection.
- 3) Upper figure is maximum load for bending. Lower figure is maximum load for deflection of L / 180.
- 4) Bending & deflection load table is base on fully supported compression flange. Simple span and uniform loading is assumed.
- 5) Table 'C' is for bending only. Check for shear and web crippling capacities on Table 'B'.
- 6) For deflection loads other than L / 180 multiply lower figure by the following factors:

DEFLECTION:	L / 90	L / 240	L / 360
MULTIPLIER:	2.00	0.75	0.50

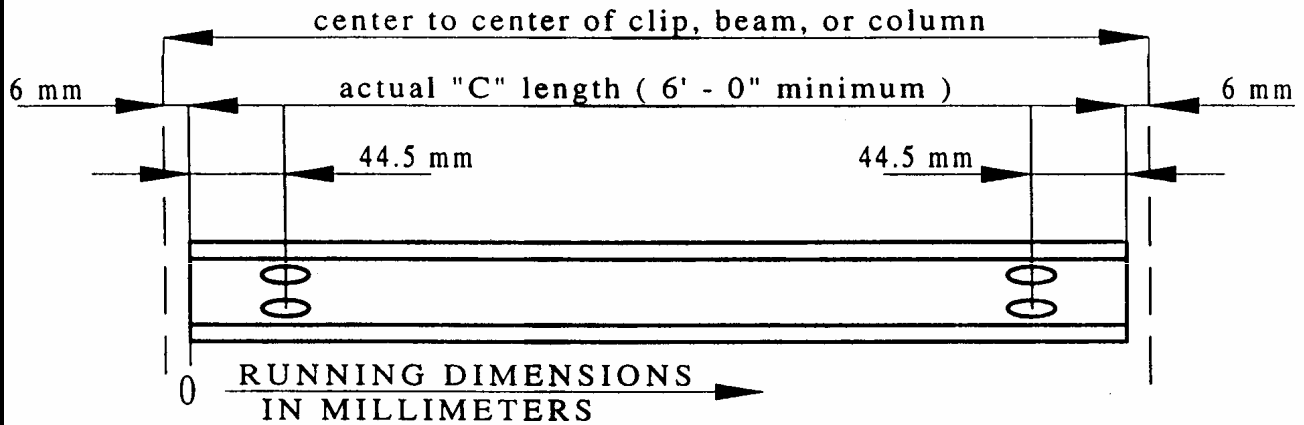
MERCURY METALS

Metric - L.S.D.

Table 'D'

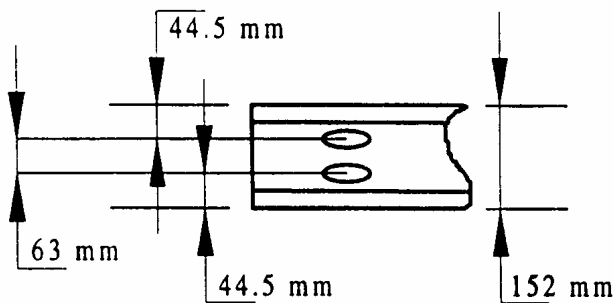
Mercury 'C' Sections

STANDARD HOLE LAYOUT FOR "C"

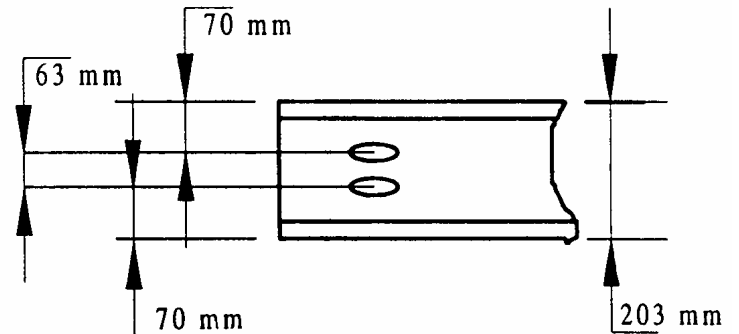


STANDARD HOLE PATTERN FOR "C"

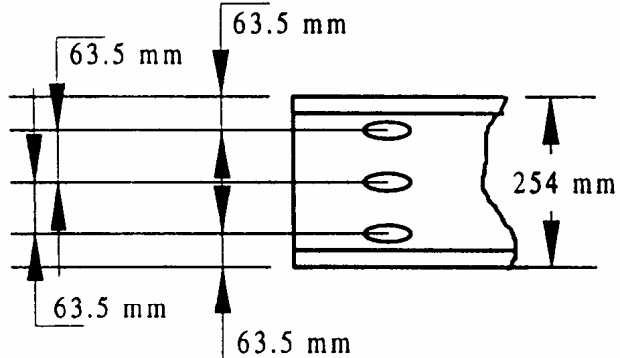
152 mm DEPTH i/i FLANGE



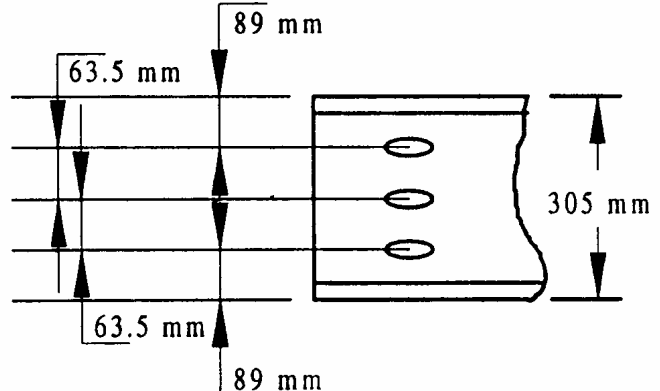
203 mm DEPTH i/i FLANGE



254 mm DEPTH i/i FLANGE



305 mm DEPTH i/i FLANGE



NOTES:

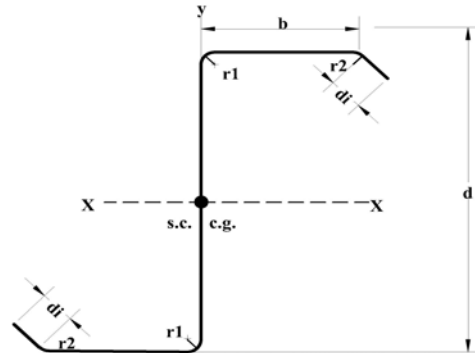
- 1) ALL HOLES ARE 9/16" DIAMETER x 1" LONG FOR 1/2" DIAMETER BOLTS.
- 2) "C" MAY BE ORDER WITH OR WITHOUT STANDARD WEB HOLES.
- 3) INTERMEDIATE WEB HOLES (IN STANDARD PATTERN) ARE AVAILABLE AT AN ADDITIONAL CHARGE.
- 4) HOLES ALONG CENTERLINE OF FLANGES ARE AVAILABLE AT AN ADDITIONAL CHARGE.

MERCURY METALS

Imperial - L.S.D.

Table 'A'

Mercury 'Z' Sections



Full Section Properties for Mercury 'Z' Sections

Designation	Weight	Area	Depth	Flange Width	Stiff'r Depth	Thick-ness	Full Section Properties										
							X - X Axis			Y - Y Axis				Xo	ro	J	j
	Ix	Sx	rx	Iy	Sy	ry	in ⁴	in ³	in	in ⁴	in ³	in					
	lb. / ft	in ²	in	in	in	in	in ⁴	in ³	in	in ⁴	in ³	in	in	in	10 ⁻⁶ in ⁴	in	in ⁶
Z 6 x .060	2.66	0.758	6.12	2.91	0.67	0.060	4.57	1.49	2.46	1.54	0.46	1.42	0	1.93	909	n/a	9.30
Z 6 x .075	3.32	0.982	6.15	2.91	0.67	0.075	5.74	1.87	2.46	1.93	0.58	1.43	0	1.94	1780	n/a	11.71
Z 6 x .105	4.65	1.375	6.21	2.91	0.67	0.105	8.13	2.62	2.47	2.72	0.80	1.43	0	1.95	4909	n/a	16.63
Z 8 x .060	3.07	0.906	8.12	2.91	0.67	0.060	8.80	2.17	3.17	1.54	0.46	1.32	0	2.83	1053	n/a	17.59
Z 8 x .075	3.84	1.132	8.15	2.91	0.67	0.075	11.05	2.71	3.17	1.93	0.58	1.33	0	2.84	2062	n/a	22.10
Z 8 x .105	5.38	1.585	8.21	2.91	0.67	0.105	15.62	3.81	3.18	2.72	0.80	1.33	0	2.85	5680	n/a	31.25
Z 10 x .060	3.49	1.026	10.12	2.91	0.67	0.060	14.94	2.95	3.85	1.61	0.48	1.27	0	3.63	1207	n/a	30.37
Z 10 x .075	4.36	1.282	10.15	2.91	0.67	0.075	18.69	3.68	3.86	1.99	0.59	1.26	0	3.63	2355	n/a	37.44
Z 10 x .105	6.11	1.795	10.21	2.91	0.67	0.105	26.21	5.13	3.88	2.72	0.80	1.25	0	3.65	6452	n/a	51.00
Z 12 x .060	3.91	1.146	12.12	2.91	0.67	0.060	23.00	3.80	4.52	1.61	0.48	1.20	0	4.36	1351	n/a	45.33
Z 12 x .075	4.88	1.432	12.15	2.91	0.67	0.075	28.76	4.73	4.52	1.99	0.59	1.19	0	4.37	2636	n/a	55.86
Z 12 x .105	6.84	2.005	12.21	2.91	0.67	0.105	40.30	6.60	4.53	2.72	0.80	1.18	0	4.38	7224	n/a	75.98

Mercury 'Z' Section Notes

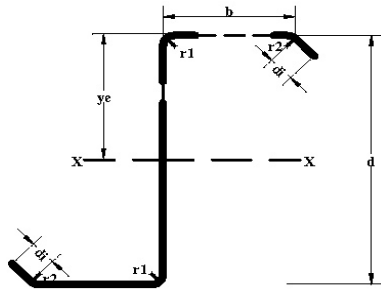
- 1) Load tables based on use of A653 Structural Quality Steel Sheet Grade 50 (maximum stress 45 Ksi).
- 2) All 'Z' sections shall have Z-275 galvanizing protection.
- 3) See Table 'B' for Effective Section Properties and Table 'C' for Specified Load / Span Tables.

MERCURY METALS

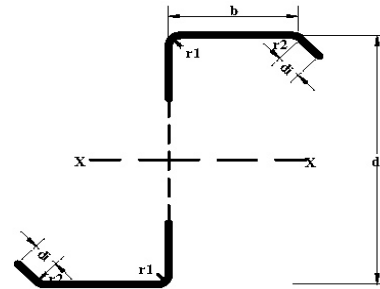
Imperial - L.S.D.

Table 'B'

Mercury 'Z' Sections



BENDING X-X AXIS



BENDING Y-Y AXIS

Effective Section Properties for Mercury 'Z' Sections

Designation	Surf. Area	Effective Section Properties X - X Axis											Effective Section Properties Y - Y Axis						
		I _{xe}	S _{xe}	y _e	Mr _{xe}	V _{rex}	Ext Web Crippling			Int Web Crippling			I _{ye}	S _{ye}	x _e	M _{rey}	V _{rey}	L _u	
							Bear. L. in inches			Bear. L. in inches									
							2	4	6	2	4	6							
ft ² /ft	in ⁴	in ³	in	K-in	K	K	K	K	K	K	K	in ⁴	in ³	in	K-in	K	in		
Z 6 x .060	2.19	4.01	1.19	3.36	53.7	5.1	1.01	1.23	1.40	1.78	1.98	2.14							46.9
Z 6 x .075	2.19	5.33	1.64	3.24	74.0	9.1	1.52	1.84	2.08	3.01	3.32	3.56							47.1
Z 6 x .105	2.20	8.13	2.62	3.11	117.9	16.6	2.44	3.13	3.79	6.07	6.82	7.53							47.5
Z 8 x .060	2.53	7.76	1.75	4.43	78.8	3.7	1.00	1.23	1.40	1.60	1.78	1.91							45.6
Z 8 x .075	2.53	10.18	2.36	4.31	106.3	7.2	1.52	1.83	2.08	2.75	3.03	3.25							45.7
Z 8 x .105	2.53	15.62	3.81	4.11	171.3	17.8	2.44	3.13	3.78	5.65	6.35	7.01							46.0
Z 10 x .060	2.86	12.71	2.26	5.63	101.6	2.9	1.00	1.22	1.39	1.43	1.60	1.72							45.3
Z 10 x .075	2.86	16.77	3.07	5.45	138.4	5.7	1.51	1.83	2.07	2.52	2.78	2.98							45.1
Z 10 x .105	2.87	26.15	5.09	5.13	229.1	15.6	2.44	3.13	3.78	5.29	5.94	6.56							44.7
Z 12 x .060	3.19	19.16	2.80	6.84	126.0	2.4	1.00	1.22	1.39	1.29	1.43	1.54							44.2
Z 12 x .075	3.19	25.22	3.79	6.70	170.4	4.7	1.51	1.83	2.07	2.31	2.55	2.73							44.0
Z 12 x .105	3.20	39.44	6.32	6.24	284.4	12.9	2.43	3.12	3.78	4.96	5.58	6.16							43.5

Mercury 'Z' Section Notes

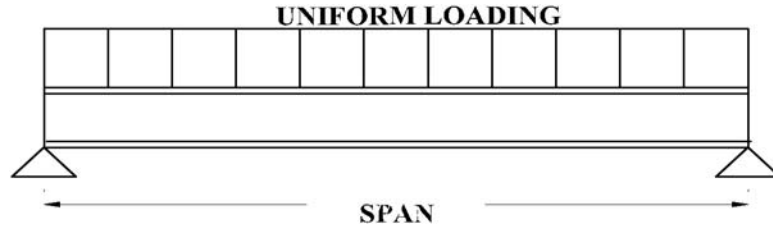
- 1) Load tables based on use of A653 Structural Quality Steel Sheet Grade 50 (maximum stress 45 Ksi).
- 2) All 'Z' sections shall have Z-275 galvanizing protection.
- 3) Effective properties are used to calculate bending and compression capacities.
- 4) See Table 'A' for Full Section Properties and Table 'C' for Specified Load / Span Tables.
- 5) **Load capacities for bending, shear and web crippling on Table 'B' are factored values. For use of these values with Table 'C' divide the factored value by 1.5 to derive Specified values.**

MERCURY METALS

Imperial - L.S.D.

Table 'C'

Mercury 'Z' Sections



Specified Bending & Deflection Loads for 'Z' Sections

Span in Feet	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0	30.0	31.0
Designation	Specified Uniform Loading (x.xx denotes kips / lineal ft. and xxx denotes lb. / lineal ft.)																					
Z 6 x .060	239	197	166	141	122	106	93	83	74	66	60	54	49	45	41	38	35	33	30	28	27	25
	328	246	190	149	119	97	80	67	56	48	41	35	31	27	24	21	19	17	15	13	12	11
Z 6 x .075	329	272	228	195	168	146	128	114	102	91	82	75	68	62	57	53	49	45	42	39	37	34
	412	310	238	188	150	122	101	84	71	60	51	44	39	34	30	26	23	21	19	17	15	14
Z 6 x .105	524	433	364	310	267	233	205	181	162	145	131	119	108	99	91	84	78	72	67	62	58	55
	584	438	338	266	213	173	142	119	100	85	73	63	55	48	42	37	33	30	27	24	22	20
Z 8 x .060	350	289	243	207	179	156	137	121	108	97	88	79	72	66	61	56	52	48	45	42	39	36
	631	474	365	287	230	187	154	128	108	92	79	68	59	52	46	40	36	32	29	26	23	21
Z 8 x .075	472	390	328	279	241	210	185	163	146	131	118	107	98	89	82	76	70	65	60	56	52	49
	793	596	459	361	289	235	194	161	136	116	99	86	74	65	57	51	45	40	36	33	29	27
Z 8 x .105	761	629	529	450	388	338	297	263	235	211	190	173	157	144	132	122	113	104	97	91	85	79
	1.12	842	649	510	408	332	274	228	192	163	140	121	105	92	81	72	64	57	51	46	42	38
Z 10 x .060	451	373	313	267	230	201	176	156	139	125	113	102	93	85	78	72	67	62	58	54	50	47
	1.07	805	620	488	390	317	262	218	184	156	134	116	101	88	78	69	61	54	49	44	40	36
Z 10 x .075	615	508	427	364	314	273	240	213	190	170	154	139	127	116	107	98	91	84	78	73	68	64
	1.34	1.01	776	610	489	397	327	273	230	195	168	145	126	110	97	86	76	68	61	55	50	45
Z 10 x .105	1.02	841	707	602	519	453	398	352	314	282	255	231	210	192	177	163	151	140	130	121	113	106
	1.88	1.41	1.09	856	685	557	459	383	322	274	235	203	177	155	136	120	107	96	86	77	70	63
Z 12 x .060	560	463	389	331	286	249	219	194	173	155	140	127	116	106	97	90	83	77	71	67	62	58
	1.65	1.24	955	751	601	489	403	336	283	241	206	178	155	136	119	106	94	84	75	68	61	55
Z 12 x .075	757	626	526	448	386	336	296	262	234	210	189	172	156	143	131	121	112	104	97	90	84	79
	2.06	1.55	1.19	939	752	611	504	420	354	301	258	223	194	170	149	132	117	105	94	85	76	69
Z 12 x .105	1.26	1.04	878	748	645	562	494	437	390	350	316	287	261	239	219	202	187	173	161	150	140	131
	2.89	2.17	1.67	1.32	1.05	857	706	588	496	422	361	312	272	238	209	185	165	147	132	119	107	97

Mercury 'Z' Section Notes

- 1) Load tables based on use of A653 Structural Quality Steel Sheet Grade 50 (maximum stress 45 Ksi).
- 2) All 'Z' sections shall have Z-275 galvanizing protection.
- 3) Upper figure is maximum load for simple span bending. Lower figure is maximum load for simple span deflection for L / 180.
- 4) Bending & deflection load table is base on fully supported compression flange.
- 5) Table 'C' is for bending only. Check for shear and web crippling capacities on Table 'B'.
- 6) For deflection loads other than L / 180 multiply lower figure by the following factors:

DEFLECTION:	L / 90	L / 240	L / 360
MULTIPLIER:	2.00	0.75	0.50

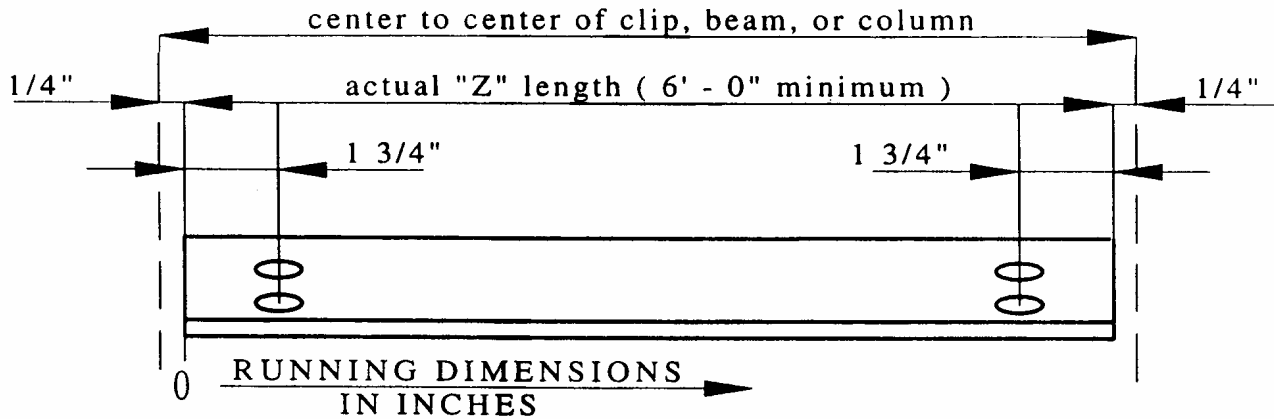
MERCURY METALS

Imperial - L.S.D.

Table 'D'

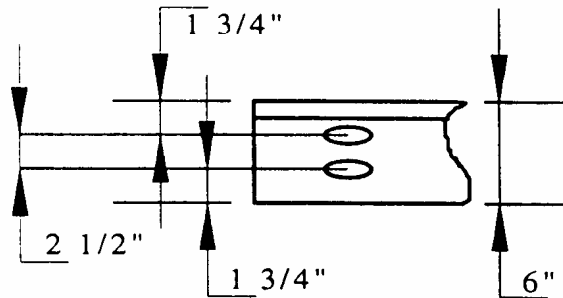
Mercury 'Z' Sections

STANDARD HOLE LAYOUT FOR "Z"

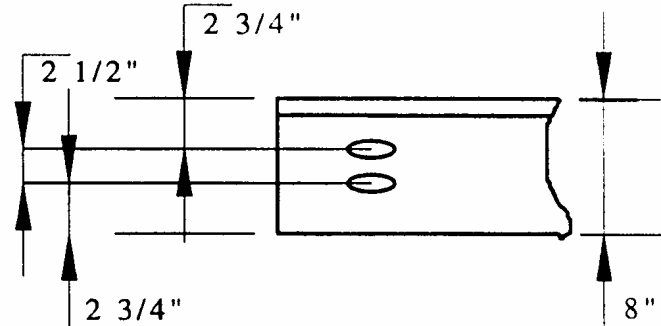


STANDARD HOLE PATTERN FOR "Z"

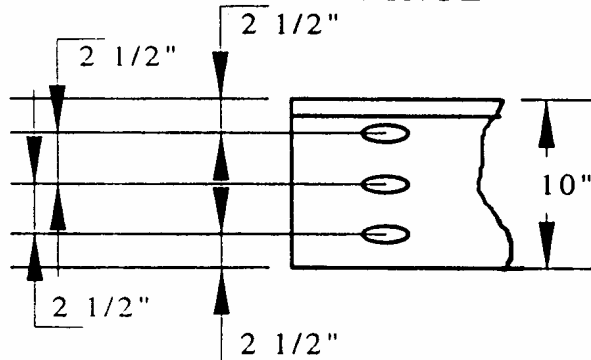
6" DEPTH i/i FLANGE



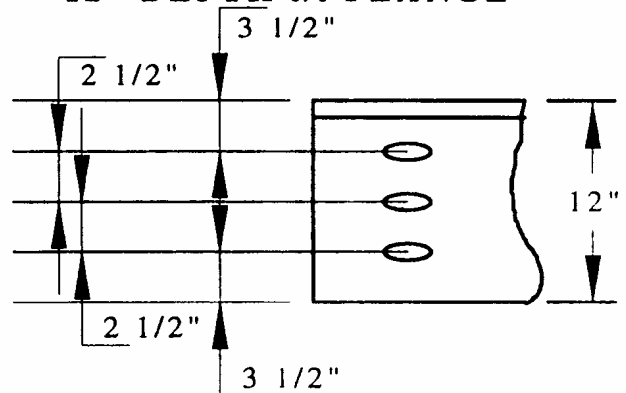
8" DEPTH i/i FLANGE



10" DEPTH i/i FLANGE



12" DEPTH i/i FLANGE



NOTES:

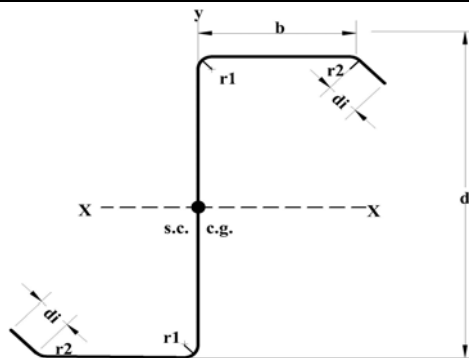
- 1) ALL HOLES ARE 9/16" DIAMETER x 1" LONG FOR 1/2" DIAMETER BOLT.
- 2) "Z" MAY BE ORDER WITH OR WITHOUT STANDARD WEB HOLES.
- 3) INTERMEDIATE WEB HOLES (IN STANDARD PATTERN) ARE AVAILABLE AT AN ADDITIONAL CHARGE.
- 4) HOLES ALONG CENTERLINE OF FLANGES ARE AVAILABLE AT AN ADDITIONAL CHARGE.

MERCURY METALS

Metric - L.S.D.

Table 'A'

Mercury 'Z' Sections



Full Section Properties for Mercury 'Z' Sections

Designation	Mass kg/m	Area mm ²	Depth mm	Flange Width mm	Stiff'r Depth mm	Thick- ness mm	Full Section Properties										
							X - X Axis			Y - Y Axis			Xo	ro	J	j	Cw
							Ix 10 ⁶ mm ⁴	Sx 10 ³ mm ³	rx mm	Iy 10 ⁶ mm ⁴	Sy 10 ³ mm ³	ry mm					
Z 152 x 1.52	3.98	507	155	74	15.4	1.52	1.90	24.5	62.4	0.64	7.5	36.2	0	49.1	0.379	n/a	2.50
Z 152 x 1.91	4.97	634	156	74	15.9	1.91	2.39	30.6	62.5	0.80	9.4	36.2	0	49.3	0.741	n/a	3.14
Z 152 x 2.67	6.96	887	158	74	17.0	2.67	3.39	42.9	62.7	1.13	13.2	36.3	0	49.5	2.043	n/a	4.47
Z 203 x 1.52	4.59	584	206	74	15.4	1.52	3.66	35.5	80.4	0.64	7.5	33.6	0	71.9	0.438	n/a	4.72
Z 203 x 1.91	5.74	731	207	74	15.9	1.91	4.60	44.4	80.5	0.80	9.4	33.6	0	72.0	0.858	n/a	5.94
Z 203 x 2.67	8.03	887	209	74	17.0	2.67	6.50	62.4	80.8	1.13	13.2	33.7	0	72.3	2.364	n/a	8.39
Z 254 x 1.52	5.19	662	257	74	15.4	1.52	6.22	48.4	97.9	0.67	7.8	32.2	0	92.1	0.502	n/a	8.15
Z 254 x 1.91	6.49	827	258	74	15.9	1.91	7.78	60.3	98.0	0.83	9.6	32.0	0	92.3	0.980	n/a	10.06
Z 254 x 2.67	9.09	1158	259	74	17.0	2.67	10.91	84.1	98.1	1.13	13.2	31.6	0	92.6	2.686	n/a	13.69
Z 305 x 1.52	5.8	739	308	74	15.4	1.52	9.57	62.2	114.8	0.67	7.8	30.4	0	110.9	0.562	n/a	12.17
Z 305 x 1.91	7.25	924	309	74	15.9	1.91	11.97	77.6	114.9	0.83	9.6	30.2	0	111.0	1.097	n/a	15.00
Z 305 x 2.67	10.15	1294	310	74	17.0	2.67	16.77	108.2	115.0	1.13	13.2	29.9	0	111.2	3.007	n/a	20.40

Mercury 'Z' Section Notes

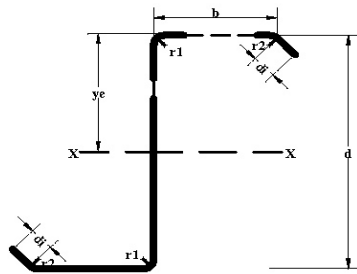
- 1) Load tables based on use of A653M Structural Quality Steel Sheet Grade 345 (maximum stress 310 Mpa).
- 2) All 'Z' sections shall have Z-275 galvanizing protection.
- 3) See Table 'B' for Effective Section Properties and Table 'C' for Specified Load / Span Tables.

MERCURY METALS

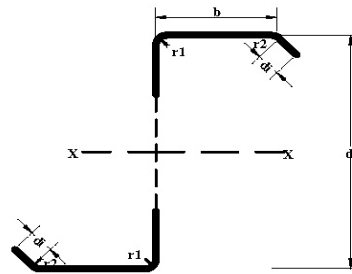
Metric - L.S.D.

Table 'B'

Mercury 'Z' Sections



BENDING X-X AXIS



BENDING Y-Y AXIS

Effective Section Properties for Mercury 'Z' Sections

Designation	Surf. Area m ² /m	Effective Section Properties X - X Axis										Effective Section Properties Y - Y Axis							
		I _{xe} 10 ⁶ mm ⁴	S _{xe} 10 ³ mm ³	y _e mm	M _{rx} Kn-m	V _{rx} Kn	Ext Web Crippling			Int Web Crippling			I _{ye} 10 ⁶ mm ⁴	S _{ye} 10 ³ mm ³	x _e mm	M _{ry} Kn-m	V _{ry} Kn	L _u Lt	
							Bear. L. in mm			Bear. L. in mm									
		50 Kn	100 Kn	150 Kn	50 Kn	100 Kn	150 Kn												
Z 152 x 1.52	0.668	1.67	19.6	85.3	6.16	22.6	4.47	5.46	6.22	7.93	8.82	9.50							1192
Z 152 x 1.91	0.669	2.22	30.0	82.3	9.44	40.5	6.75	8.17	9.25	13.40	14.79	15.85							1196
Z 152 x 2.67	0.671	3.39	42.9	78.9	13.51	73.7	10.87	13.93	16.85	26.98	30.32	33.48							1205
Z 203 x 1.52	0.770	3.23	28.7	112.6	9.04	16.5	4.46	5.45	6.21	7.10	7.90	8.51							1159
Z 203 x 1.91	0.771	4.24	38.7	109.5	12.19	32.2	6.74	8.16	9.24	12.23	13.50	14.46							1162
Z 203 x 2.67	0.772	6.05	62.4	104.3	19.66	79.4	10.85	13.92	16.83	25.14	28.24	31.19							1168
Z 254 x 1.52	0.872	5.29	37.0	143.0	11.65	13.0	4.46	5.44	6.20	6.38	7.10	7.65							1152
Z 254 x 1.91	0.872	6.98	50.4	138.5	15.87	25.4	6.73	8.15	9.23	11.20	12.36	13.25							1146
Z 254 x 2.67	0.874	10.88	83.4	130.4	26.28	69.4	10.84	13.90	16.81	23.53	26.43	29.19							1135
Z 305 x 1.52	0.973	7.98	45.9	173.9	14.45	10.7	4.45	5.44	6.19	5.73	6.38	6.87							1123
Z 305 x 1.91	0.974	10.50	62.0	169.2	19.54	20.9	6.73	8.14	9.22	10.28	11.35	12.16							1117
Z 305 x 2.67	0.975	16.42	103.6	158.5	32.62	57.3	10.83	13.89	16.79	22.08	24.80	27.39							1105

Mercury 'Z' Section Notes

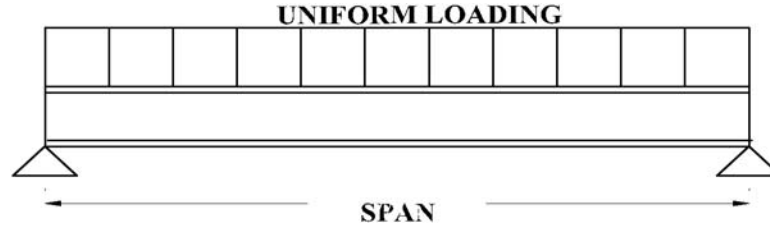
- 1) Load tables based on use of A653M Structural Quality Steel Sheet Grade 345 (maximum stress 310 Mpa).
- 2) All 'Z' sections shall have Z-275 galvanizing protection.
- 3) Effective properties are used to calculate bending and compression capacities.
- 4) See Table 'A' for Full Section Properties and Table 'C' for Specified Load / Span Tables.
- 5) **Load capacities for bending, shear and web crippling on Table 'B' are factored values. For use of these values with Table 'C' divide the factored value by 1.5 to derive Specified values.**

MERCURY METALS

Metric - L.S.D.

Table 'C'

Mercury 'Z' Sections



Specified Bending & Deflection Loads for 'Z' Sections

Span in Meters	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3
Designation	Specified Uniform Loading (Kn / M)																					
Z 152 x 1.52	3.60 5.35	2.97 4.02	2.50 3.10	2.13 2.44	1.84 1.95	1.60 1.59	1.41 1.31	1.25 1.09	1.11 0.92	1.00 0.78	0.90 0.67	0.82 0.58	0.74 0.50	0.68 0.44	0.62 0.39	0.58 0.34	0.53 0.30	0.49 0.27	0.46 0.24	0.43 0.22	0.40 0.20	0.37 0.18
Z 152 x 1.91	5.51 7.12	4.56 5.35	3.83 4.12	3.26 3.24	2.81 2.59	2.45 2.11	2.15 1.74	1.91 1.45	1.70 1.22	1.53 1.04	1.38 0.89	1.25 0.77	1.14 0.67	1.04 0.58	0.96 0.51	0.88 0.46	0.82 0.40	0.76 0.36	0.70 0.32	0.66 0.29	0.61 0.26	0.57 0.24
Z 152 x 2.67	7.89 10.9	6.52 8.16	5.48 6.29	4.67 4.94	4.03 3.96	3.51 3.22	3.08 2.65	2.73 2.21	2.44 1.86	2.19 1.58	1.97 1.36	1.79 1.17	1.63 1.02	1.49 0.89	1.37 0.79	1.26 0.70	1.17 0.62	1.08 0.55	1.01 0.49	0.94 0.45	0.88 0.40	0.82 0.36
Z 203 x 1.52	5.28 10.4	4.36 7.79	3.67 6.00	3.12 4.72	2.69 3.78	2.35 3.07	2.06 2.53	1.83 2.11	1.63 1.78	1.46 1.51	1.32 1.30	1.20 1.12	1.09 0.97	1.00 0.85	0.92 0.75	0.84 0.66	0.78 0.59	0.72 0.53	0.67 0.47	0.63 0.42	0.59 0.38	0.55 0.35
Z 203 x 1.91	7.12 10.4	5.89 7.79	4.95 6.00	4.21 4.72	3.63 3.78	3.17 3.07	2.78 2.53	2.46 2.11	2.20 1.78	1.97 1.51	1.78 1.30	1.61 1.12	1.47 0.97	1.35 0.85	1.24 0.75	1.14 0.66	1.05 0.59	0.98 0.53	0.91 0.47	0.85 0.42	0.79 0.38	0.74 0.35
Z 203 x 2.67	11.5 19.4	9.5 14.6	7.97 11.2	6.79 8.8	5.86 7.08	5.10 5.75	4.49 4.74	3.97 3.95	3.54 3.33	3.18 2.83	2.87 2.43	2.60 2.10	2.37 1.82	2.17 1.60	1.99 1.40	1.84 1.24	1.70 1.10	1.57 0.99	1.46 0.88	1.37 0.80	1.28 0.72	1.19 0.65
Z 254 x 1.52	6.81 17.0	5.63 12.8	4.73 9.8	4.03 7.73	3.47 6.19	3.03 5.03	2.66 4.14	2.36 3.45	2.10 2.91	1.89 2.47	1.70 2.12	1.54 1.83	1.41 1.59	1.29 1.40	1.18 1.09	1.09 0.97	1.01 0.86	0.93 0.77	0.87 0.70	0.81 0.63	0.76 0.57	0.71 0.57
Z 254 x 1.91	9.3 22.4	7.66 16.8	6.44 13.0	5.49 10.2	4.73 8.16	4.12 6.63	3.62 5.47	3.21 4.56	2.86 3.84	2.57 3.26	2.32 2.80	2.10 2.42	1.92 2.10	1.75 1.84	1.61 1.62	1.48 1.43	1.37 1.27	1.27 1.14	1.18 1.02	1.10 0.92	1.03 0.83	0.96 0.75
Z 254 x 2.67	15.4 34.9	12.7 26.2	10.7 20.2	9.08 15.9	7.83 12.7	6.82 10.3	6.00 8.52	5.31 7.11	4.74 5.99	4.25 5.09	3.84 4.36	3.48 3.77	3.17 3.28	2.90 2.87	2.67 2.53	2.46 2.23	2.27 1.99	2.11 1.77	1.96 1.59	1.83 1.43	1.71 1.29	1.60 1.17
Z 305 x 1.52	8.4 25.6	6.98 19.2	5.86 14.8	5.00 11.6	4.31 9.3	3.75 7.58	3.30 6.25	2.92 5.21	2.61 4.39	2.34 3.73	2.11 3.20	1.91 2.76	1.74 2.40	1.60 2.10	1.47 1.85	1.35 1.64	1.25 1.46	1.16 1.30	1.08 1.17	1.00 1.05	0.94 0.95	0.88 0.86
Z 305 x 1.91	11.4 33.7	9.4 25.3	7.93 19.5	6.75 15.3	5.82 12.3	5.07 10.0	4.46 8.22	3.95 6.85	3.52 5.77	3.16 4.91	2.85 4.21	2.59 3.64	2.36 3.16	2.16 2.77	1.98 2.44	1.83 2.15	1.69 1.92	1.57 1.71	1.46 1.53	1.36 1.38	1.27 1.25	1.19 1.13
Z 305 x 2.67	19.1 52.7	15.7 39.6	13.2 30.5	11.3 24.0	9.7 19.2	8.47 15.6	7.44 12.9	6.59 #####	5.88 9.03	5.28 7.68	4.76 6.58	4.32 5.69	3.94 4.95	3.60 4.33	3.31 3.81	3.05 3.37	2.82 3.00	2.61 2.68	2.43 2.40	2.27 2.16	2.12 1.95	1.98 1.77

Mercury 'Z' Section Notes

- 1) Load tables based on use of A653M Structural Quality Steel Sheet Grade 345 (maximum stress 310 Mpa).
- 2) All 'Z' sections shall have Z-275 galvanizing protection.
- 3) Upper figure is maximum load for bending. Lower figure is maximum load for deflection of L / 180.
- 4) Bending & deflection load table is base on fully supported compression flange. Simple span and uniform loading is assumed.
- 5) Table 'C' is for bending only. Check for shear and web crippling capacities on Table 'B'.
- 6) For deflection loads other than L / 180 multiply lower figure by the following factors:

DEFLECTION:	L / 90	L / 240	L / 360
MULTIPLIER:	2.00	0.75	0.50

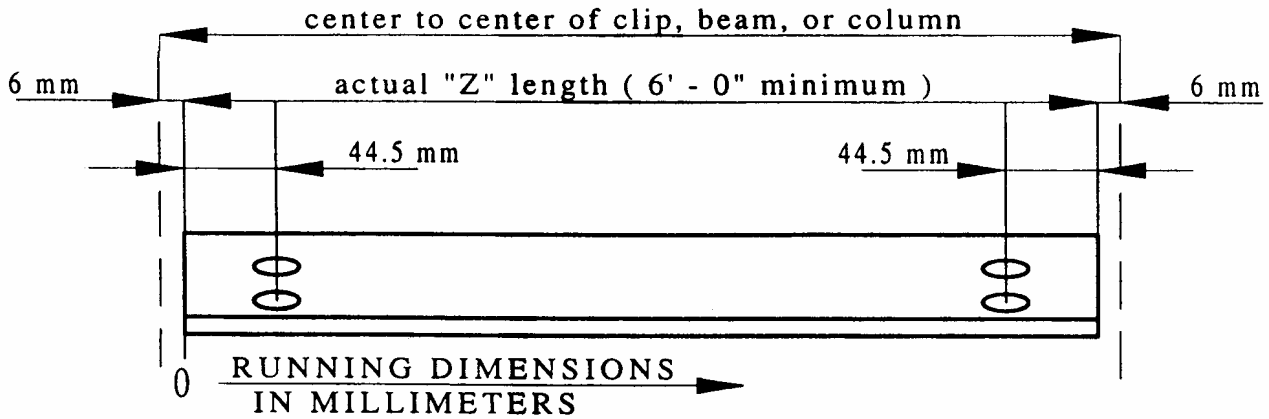
MERCURY METALS

Metric - L.S.D.

Table 'D'

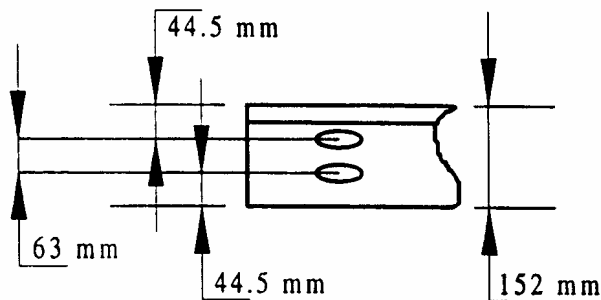
Mercury 'Z' Sections

STANDARD HOLE LAYOUT FOR "Z"

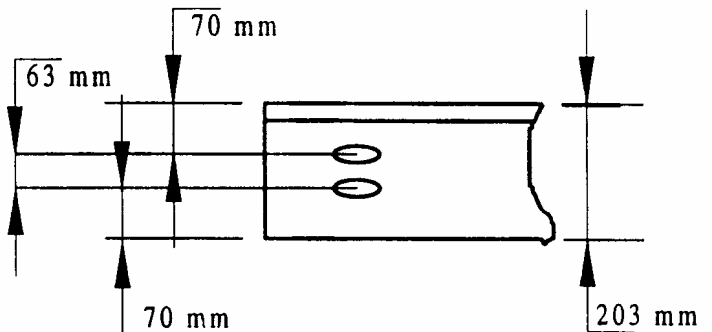


STANDARD HOLE PATTERN FOR "Z"

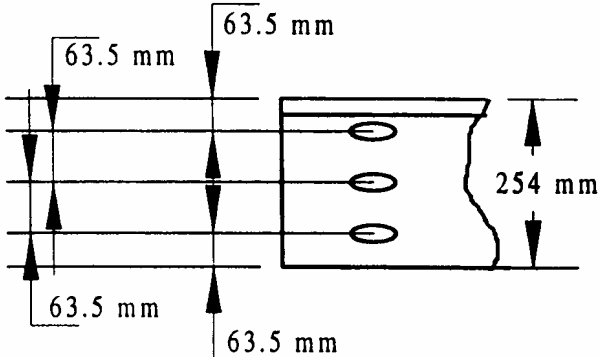
152 mm DEPTH i/i FLANGE



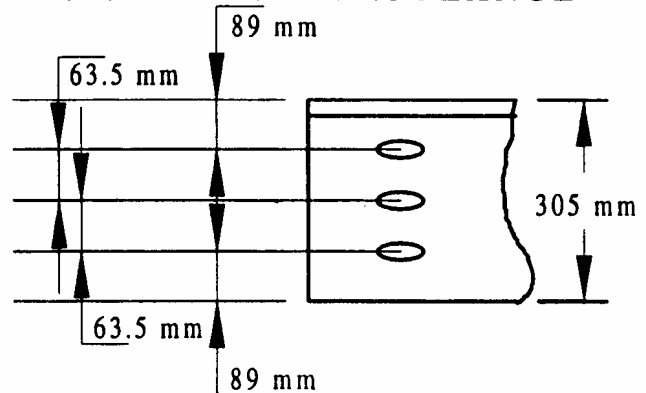
203 mm DEPTH i/i FLANGE



254 mm DEPTH i/i FLANGE



305 mm DEPTH i/i FLANGE



NOTES:

- 1) ALL HOLES ARE 14.3 mm DIAMETER x 25.4 mm LONG FOR 1/2" DIAMETER BOLT.
- 2) "Z" MAY BE ORDER WITH OR WITHOUT STANDARD HOLES.
- 3) INTERMEDIATE WEB HOLES (IN STANDARD PATTERN) ARE AVAILABLE AT AN ADDITIONAL CHARGE.
- 4) HOLES ALONG CENTERLINE OF FLANGES ARE AVAILABLE AT AN ADDITIONAL CHARGE.