

CG500 MULLION CAPACITY TABLE (REINFORCED / UNREINFORCED)

Note: (A) Allowable wind loads in PSF based on deflection, bending stress (no lateral support) and bending stress (with full lateral support) - top to bottom. (B) Aluminum alloy 6063-T6 (Fy=15 ksi) and A36 steel (Fb = 21.6 ksi) were used. (C) Deflection limit is L/175. For spans over 13'-6", deflection limit of L/240+1/4 applies. (D) Deflections have been calculated using the algebraic sum of the individual Ix values. (E) Bending stress has been apportioned by relative Ix of the appropriate members.

LEGEND:	
	Deflection
	Bending with no lateral support
	Bending with full lateral support

Standard Mullion: CG500-4 + CG500-5											
Ix = 5.4762 in ⁴ Sx = 2.2143 in ³											
Mullion Spacing	MULLION HEIGHT										
	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	13'-0"	14'-0"
3'-0"	108.65	90.59	76.31	64.89	55.63	48.06	41.80	36.58	32.19	25.32	20.06
	76.63	67.62	60.10	53.74	48.33	43.69	39.67	36.18	33.12	28.04	24.03
	77.77	68.89	61.44	55.15	49.77	45.14	41.13	37.63	34.56	29.45	25.39
3'-6"	93.13	77.65	65.41	55.62	47.68	41.19	35.83	31.35	27.59	21.70	17.20
	65.68	57.96	51.51	46.07	41.43	37.45	34.01	31.01	28.39	24.04	20.60
	66.66	59.05	52.67	47.27	42.66	38.69	35.26	32.26	29.63	25.24	21.77
4'-0"	81.49	67.94	57.23	48.66	41.72	36.04	31.35	27.43	24.15	18.99	15.05
	57.47	50.72	45.07	40.31	36.25	32.77	29.75	27.13	24.84	21.03	18.02
	58.32	51.66	46.08	41.36	37.33	33.86	30.85	28.23	25.92	22.09	19.04
4'-6"	72.44	60.39	50.87	43.26	37.09	32.04	27.86	24.39	21.46	16.88	13.38
	51.09	45.08	40.06	35.83	32.22	29.13	26.45	24.12	22.08	18.69	16.02
	51.84	45.92	40.96	36.76	33.18	30.10	27.42	25.09	23.04	19.63	16.93
5'-0"	65.19	54.35	45.79	38.93	33.38	28.83	25.08	21.95	19.32	15.19	12.04
	45.98	40.57	36.06	32.25	29.00	26.21	23.80	21.71	19.87	16.82	14.42
	46.66	41.33	36.87	33.09	29.86	27.09	24.68	22.58	20.74	17.67	15.24
5'-6"	59.27	49.41	41.62	35.39	30.34	26.21	22.80	19.95	17.56	13.81	10.94
	41.80	36.89	32.78	29.31	26.36	23.83	21.64	19.73	18.06	15.30	13.11
	42.42	37.57	33.52	30.08	27.15	24.62	22.44	20.53	18.85	16.06	13.85
6'-0"	54.33	45.29	38.16	32.44	27.82	24.03	20.90	18.29	16.10	12.66	10.03
	38.31	33.81	30.05	26.87	24.17	21.84	19.84	18.09	16.56	14.02	12.02
	38.88	34.44	30.72	27.57	24.89	22.57	20.57	18.82	17.28	14.72	12.70
6'-6"	50.15	41.81	35.22	29.95	25.68	22.18	19.29	16.88	14.86	11.69	9.26
	35.37	31.21	27.74	24.80	22.31	20.16	18.31	16.70	15.29	12.94	11.09
	35.89	31.79	28.36	25.45	22.97	20.84	18.98	17.37	15.95	13.59	11.72
7'-0"	46.57	38.82	32.71	27.81	23.84	20.60	17.91	15.68	13.80	10.85	8.60
	32.84	28.98	25.76	23.03	20.71	18.72	17.00	15.50	14.19	12.02	10.30
	33.33	29.52	26.33	23.63	21.33	19.35	17.63	16.13	14.81	12.62	10.88

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Note: (A) Allowable wind loads in PSF based on deflection, bending stress (no lateral support) and bending stress (with full lateral support) - top to bottom. (B) Aluminum alloy 6063-T6 (Fy=15 ksi) and A36 steel (Fb = 21.6 ksi) were used. (C) Deflection limit is L/175. For spans over 13'-6", deflection limit of L/240+1/4 applies. (D) Deflections have been calculated using the algebraic sum of the individual Ix values. (E) Bending stress has been apportioned by relative Ix of the appropriate members.

LEGEND:	
	Deflection
	Bending with no lateral support
	Bending with full lateral support

Standard Mullion: CG500-4 + CG500-5 + ST500-4											
Ix = 18.5053 in^4 Sx = 7.8490 in^3											
Mullion Spacing	MULLION HEIGHT										
	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	13'-0"	14'-0"
3'-0"	367.17	306.11	257.87	219.26	187.99	162.39	141.24	123.61	108.79	85.57	67.80
	125.28	110.90	98.85	88.66	79.97	72.49	66.01	60.36	55.40	47.15	40.61
	125.61	111.27	99.25	89.08	80.39	72.92	66.44	60.79	55.83	47.57	41.02
3'-6"	314.72	262.38	221.04	187.94	161.13	139.19	121.06	105.95	93.25	73.34	58.11
	107.38	95.05	84.73	76.00	68.54	62.13	56.58	51.74	47.49	40.42	34.81
	107.67	95.37	85.07	76.35	68.91	62.50	56.95	52.10	47.85	40.77	35.16
4'-0"	275.38	229.58	193.41	164.45	140.99	121.79	105.93	92.71	81.59	64.18	50.85
	93.96	83.17	74.14	66.50	59.98	54.37	49.51	45.27	41.55	35.36	30.46
	94.21	83.45	74.44	66.81	60.29	54.69	49.83	45.59	41.87	35.68	30.76
4'-6"	244.78	204.07	171.92	146.18	125.33	108.26	94.16	82.40	72.53	57.04	45.20
	83.52	73.93	65.90	59.11	53.31	48.33	44.01	40.24	36.93	31.44	27.08
	83.74	74.18	66.17	59.39	53.60	48.61	44.29	40.53	37.22	31.71	27.34
5'-0"	220.30	183.67	154.72	131.56	112.79	97.44	84.74	74.16	65.27	51.34	40.68
	75.17	66.54	59.31	53.20	47.98	43.49	39.61	36.21	33.24	28.29	24.37
	75.37	66.76	59.55	53.45	48.24	43.75	39.86	36.47	33.50	28.54	24.61
5'-6"	200.27	166.97	140.66	119.60	102.54	88.58	77.04	67.42	59.34	46.67	36.98
	68.33	60.49	53.92	48.36	43.62	39.54	36.00	32.92	30.22	25.72	22.15
	68.52	60.69	54.14	48.59	43.85	39.77	36.24	33.16	30.45	25.95	22.37
6'-0"	183.58	153.06	128.94	109.63	94.00	81.20	70.62	61.80	54.40	42.78	33.90
	62.64	55.45	49.43	44.33	39.98	36.24	33.00	30.18	27.70	23.58	20.31
	62.81	55.64	49.63	44.54	40.20	36.46	33.22	30.39	27.91	23.78	20.51
6'-6"	169.46	141.28	119.02	101.20	86.76	74.95	65.19	57.05	50.21	39.49	31.29
	57.82	51.18	45.62	40.92	36.91	33.46	30.47	27.86	25.57	21.76	18.74
	57.98	51.36	45.81	41.11	37.10	33.65	30.66	28.06	25.77	21.96	18.93
7'-0"	157.36	131.19	110.52	93.97	80.57	69.60	60.53	52.97	46.62	36.67	29.06
	53.69	47.53	42.36	38.00	34.27	31.07	28.29	25.87	23.74	20.21	17.41
	53.83	47.69	42.54	38.18	34.45	31.25	28.47	26.05	23.93	20.39	17.58

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LEGEND:	
	Deflection
	Bending with no lateral support
	Bending with full lateral support

Standard Mullion: CG500-7 + CG500-5											
Ix = 9.5050 in ⁴ Sx = 3.8210 in ³											
Mullion Spacing	MULLION HEIGHT										
	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	13'-0"	14'-0"
3'-0"	188.59	157.23	132.45	112.62	96.56	83.41	72.55	63.49	55.88	43.95	34.82
	152.32	134.31	119.27	106.58	95.77	86.51	78.50	71.53	65.43	55.32	47.35
	157.49	139.50	124.43	111.68	100.79	91.42	83.30	76.21	69.99	59.64	51.42
3'-6"	161.65	134.77	113.53	96.53	82.76	71.50	62.18	54.42	47.90	37.67	29.85
	130.56	115.13	102.23	91.35	82.09	74.15	67.28	61.31	56.09	47.42	40.58
	134.99	119.57	106.66	95.73	86.39	78.36	71.40	65.33	59.99	51.12	44.08
4'-0"	141.44	117.92	99.34	84.47	72.42	62.56	54.41	47.62	41.91	32.96	26.12
	114.24	100.73	89.45	79.93	71.83	64.88	58.87	53.65	49.07	41.49	35.51
	118.11	104.63	93.33	83.76	75.59	68.57	62.47	57.16	52.50	44.73	38.57
4'-6"	125.73	104.82	88.30	75.08	64.37	55.61	48.36	42.33	37.25	29.30	23.21
	101.55	89.54	79.51	71.05	63.85	57.67	52.33	47.69	43.62	36.88	31.56
	104.99	93.00	82.96	74.45	67.19	60.95	55.53	50.81	46.66	39.76	34.28
5'-0"	113.15	94.34	79.47	67.57	57.94	50.05	43.53	38.09	33.53	26.37	20.89
	91.39	80.59	71.56	63.95	57.46	51.90	47.10	42.92	39.26	33.19	28.41
	94.49	83.70	74.66	67.01	60.47	54.85	49.98	45.73	42.00	35.78	30.85
5'-6"	102.87	85.76	72.25	61.43	52.67	45.50	39.57	34.63	30.48	23.97	18.99
	83.09	73.26	65.06	58.13	52.24	47.18	42.82	39.02	35.69	30.18	25.83
	85.90	76.09	67.87	60.92	54.98	49.87	45.44	41.57	38.18	32.53	28.05
6'-0"	94.30	78.61	66.23	56.31	48.28	41.71	36.27	31.74	27.94	21.98	17.41
	76.16	67.16	59.63	53.29	47.89	43.25	39.25	35.76	32.72	27.66	23.67
	78.74	69.75	62.22	55.84	50.40	45.71	41.65	38.11	35.00	29.82	25.71
6'-6"	87.04	72.57	61.13	51.98	44.57	38.50	33.48	29.30	25.79	20.28	16.07
	70.30	61.99	55.05	49.19	44.20	39.93	36.23	33.01	30.20	25.53	21.85
	72.69	64.39	57.43	51.54	46.52	42.19	38.45	35.18	32.30	27.53	23.73
7'-0"	80.82	67.38	56.77	48.27	41.38	35.75	31.09	27.21	23.95	18.84	14.92
	65.28	57.56	51.11	45.68	41.05	37.07	33.64	30.66	28.04	23.71	20.29
	67.49	59.79	53.33	47.86	43.20	39.18	35.70	32.66	30.00	25.56	22.04