

CG501 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: CG501-4 + CG501-5											
Ix = 5.7163 in^4 Sx = 2.3071 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"	113.42	94.56	79.66	67.73	58.07	50.16	43.63	38.18	33.61	26.43	20.94
	77.39	68.28	60.68	54.26	48.79	44.10	40.04	36.51	33.42	28.29	24.24
	78.89	69.89	62.34	55.95	50.49	45.80	41.73	38.18	35.06	29.88	25.76
3'-6"	97.22	81.05	68.28	58.05	49.77	43.00	37.40	32.73	28.80	22.66	17.95
	66.33	58.53	52.01	46.51	41.82	37.80	34.32	31.29	28.64	24.25	20.78
	67.62	59.90	53.43	47.95	43.28	39.26	35.77	32.73	30.05	25.61	22.08
4'-0"	85.06	70.92	59.74	50.80	43.55	37.62	32.72	28.64	25.20	19.82	15.71
	58.04	51.21	45.51	40.69	36.59	33.07	30.03	27.38	25.06	21.22	18.18
	59.17	52.41	46.75	41.96	37.87	34.35	31.30	28.63	26.30	22.41	19.32
4'-6"	75.61	63.04	53.11	45.15	38.71	33.44	29.09	25.45	22.40	17.62	13.96
	51.59	45.52	40.45	36.17	32.53	29.40	26.69	24.34	22.28	18.86	16.16
	52.60	46.59	41.56	37.30	33.66	30.53	27.82	25.45	23.38	19.92	17.17
5'-0"	68.05	56.73	47.79	40.64	34.84	30.10	26.18	22.91	20.16	15.86	12.57
	46.43	40.97	36.41	32.55	29.27	26.46	24.02	21.90	20.05	16.97	14.54
	47.34	41.93	37.40	33.57	30.30	27.48	25.04	22.91	21.04	17.93	15.46
5'-6"	61.86	51.58	43.45	36.94	31.67	27.36	23.80	20.83	18.33	14.42	11.42
	42.21	37.25	33.10	29.59	26.61	24.05	21.84	19.91	18.23	15.43	13.22
	43.03	38.12	34.00	30.52	27.54	24.98	22.76	20.83	19.13	16.30	14.05
6'-0"	56.71	47.28	39.83	33.87	29.04	25.08	21.81	19.09	16.80	13.22	10.47
	38.69	34.14	30.34	27.13	24.39	22.05	20.02	18.25	16.71	14.14	12.12
	39.45	34.94	31.17	27.97	25.25	22.90	20.86	19.09	17.53	14.94	12.88
6'-6"	52.35	43.64	36.77	31.26	26.80	23.15	20.14	17.62	15.51	12.20	9.67
	35.72	31.52	28.00	25.04	22.52	20.35	18.48	16.85	15.42	13.06	11.19
	36.41	32.25	28.77	25.82	23.30	21.14	19.26	17.62	16.18	13.79	11.89
7'-0"	48.61	40.52	34.14	29.03	24.89	21.50	18.70	16.36	14.40	11.33	8.98
	33.17	29.26	26.00	23.25	20.91	18.90	17.16	15.65	14.32	12.12	10.39
	33.81	29.95	26.72	23.98	21.64	19.63	17.88	16.36	15.03	12.80	11.04

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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: CG501-4 + CG501-5 + ST500-4											
Ix = 18.7454 in ⁴ Sx = 7.9418 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"	371.93	310.08	261.22	222.11	190.43	164.50	143.07	125.21	110.20	86.68	68.68
	124.89	110.54	98.53	88.37	79.70	72.24	65.78	60.15	55.21	46.98	40.46
	125.35	111.03	99.04	88.89	80.22	72.76	66.30	60.66	55.71	47.47	40.93
3'-6"	318.80	265.79	223.90	190.38	163.23	141.00	122.63	107.32	94.46	74.29	58.86
	107.05	94.75	84.46	75.75	68.32	61.92	56.39	51.56	47.32	40.27	34.68
	107.44	95.17	84.89	76.19	68.76	62.37	56.83	51.99	47.75	40.69	35.08
4'-0"	278.95	232.56	195.92	166.58	142.82	123.38	107.30	93.91	82.65	65.01	51.51
	93.66	82.91	73.90	66.28	59.78	54.18	49.34	45.11	41.41	35.24	30.35
	94.01	83.27	74.28	66.67	60.17	54.57	49.72	45.49	41.78	35.60	30.70
4'-6"	247.96	206.72	174.15	148.07	126.95	109.67	95.38	83.47	73.47	57.78	45.78
	83.26	73.70	65.69	58.91	53.13	48.16	43.86	40.10	36.80	31.32	26.98
	83.56	74.02	66.03	59.26	53.48	48.51	44.20	40.44	37.14	31.65	27.29
5'-0"	223.16	186.05	156.73	133.26	114.26	98.70	85.84	75.13	66.12	52.01	41.21
	74.93	66.33	59.12	53.02	47.82	43.35	39.47	36.09	33.12	28.19	24.28
	75.21	66.62	59.42	53.33	48.13	43.66	39.78	36.40	33.43	28.48	24.56
5'-6"	202.87	169.14	142.48	121.15	103.87	89.73	78.04	68.30	60.11	47.28	37.46
	68.12	60.30	53.74	48.20	43.47	39.41	35.88	32.81	30.11	25.63	22.07
	68.37	60.56	54.02	48.48	43.76	39.69	36.16	33.09	30.39	25.89	22.32
6'-0"	185.97	155.04	130.61	111.05	95.21	82.25	71.54	62.61	55.10	43.34	34.34
	62.44	55.27	49.27	44.19	39.85	36.12	32.89	30.07	27.60	23.49	20.23
	62.67	55.52	49.52	44.44	40.11	36.38	33.15	30.33	27.85	23.73	20.46
6'-6"	171.66	143.12	120.56	102.51	87.89	75.92	66.03	57.79	50.86	40.00	31.70
	57.64	51.02	45.48	40.79	36.79	33.34	30.36	27.76	25.48	21.68	18.68
	57.85	51.25	45.71	41.03	37.03	33.58	30.60	28.00	25.71	21.91	18.89
7'-0"	159.40	132.89	111.95	95.19	81.61	70.50	61.32	53.66	47.23	37.15	29.43
	53.52	47.38	42.23	37.87	34.16	30.96	28.19	25.78	23.66	20.14	17.34
	53.72	47.59	42.44	38.09	34.38	31.18	28.41	26.00	23.88	20.34	17.54

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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: CG501-7 + CG501-5		Ix = 9.7404 in ⁴ Sx = 3.9097 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"	193.26	161.12	135.73	115.41	98.95	85.48	74.34	65.06	57.26	45.04	35.68
	151.79	133.82	118.81	106.15	95.38	86.13	78.15	71.20	65.12	55.05	47.10
	157.69	139.69	124.60	111.83	100.92	91.54	83.41	76.31	70.09	59.72	51.49
3'-6"	165.65	138.11	116.34	98.92	84.81	73.27	63.72	55.77	49.08	38.60	30.59
	130.10	114.70	101.84	90.98	81.75	73.83	66.98	61.03	55.82	47.18	40.37
	135.17	119.73	106.80	95.85	86.51	78.46	71.49	65.41	60.07	51.19	44.14
4'-0"	144.95	120.84	101.80	86.56	74.21	64.11	55.76	48.80	42.95	33.78	26.76
	113.84	100.36	89.11	79.61	71.53	64.60	58.61	53.40	48.84	41.29	35.32
	118.27	104.77	93.45	83.87	75.69	68.66	62.56	57.23	52.56	44.79	38.62
4'-6"	128.84	107.42	90.49	76.94	65.97	56.98	49.56	43.37	38.18	30.03	23.79
	101.19	89.21	79.21	70.77	63.58	57.42	52.10	47.47	43.42	36.70	31.40
	105.13	93.13	83.07	74.55	67.28	61.03	55.61	50.88	46.72	39.81	34.33
5'-0"	115.96	96.67	81.44	69.25	59.37	51.29	44.61	39.04	34.36	27.02	21.41
	91.07	80.29	71.28	63.69	57.23	51.68	46.89	42.72	39.07	33.03	28.26
	94.62	83.81	74.76	67.10	60.55	54.92	50.05	45.79	42.05	35.83	30.90
5'-6"	105.42	87.89	74.04	62.95	53.97	46.62	40.55	35.49	31.23	24.57	19.46
	82.79	72.99	64.80	57.90	52.02	46.98	42.63	38.84	35.52	30.03	25.69
	86.02	76.19	67.96	61.00	55.05	49.93	45.50	41.63	38.23	32.57	28.09
6'-0"	96.63	80.56	67.87	57.71	49.48	42.74	37.17	32.53	28.63	22.52	17.84
	75.89	66.91	59.40	53.07	47.69	43.07	39.07	35.60	32.56	27.52	23.55
	78.85	69.84	62.30	55.91	50.46	45.77	41.70	38.16	35.04	29.86	25.75
6'-6"	89.20	74.36	62.65	53.27	45.67	39.45	34.31	30.03	26.43	20.79	16.47
	70.05	61.76	54.83	48.99	44.02	39.75	36.07	32.86	30.06	25.41	21.74
	72.78	64.47	57.51	51.61	46.58	42.25	38.50	35.22	32.35	27.56	23.77
7'-0"	82.83	69.05	58.17	49.46	42.41	36.63	31.86	27.88	24.54	19.30	15.29
	65.05	57.35	50.92	45.49	40.88	36.91	33.49	30.51	27.91	23.59	20.18
	67.58	59.87	53.40	47.93	43.25	39.23	35.75	32.71	30.04	25.59	22.07

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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: DF500-1 + CG501-5											
Ix = 5.5372 in^4 Sx = 2.2412 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"	109.87	91.60	77.16	65.61	56.25	48.59	42.26	36.99	32.55	25.60	20.29
	74.83	66.05	58.70	52.50	47.23	42.69	38.77	35.36	32.38	27.42	23.50
	75.76	67.11	59.86	53.73	48.49	43.98	40.07	36.66	33.67	28.69	24.74
3'-6"	94.17	78.51	66.14	56.24	48.22	41.65	36.22	31.70	27.90	21.95	17.39
	64.14	56.61	50.32	45.00	40.48	36.59	33.24	30.31	27.75	23.50	20.15
	64.94	57.53	51.31	46.05	41.56	37.70	34.35	31.43	28.86	24.59	21.21
4'-0"	82.40	68.70	57.87	49.21	42.19	36.44	31.70	27.74	24.41	19.20	15.21
	56.12	49.54	44.03	39.38	35.42	32.02	29.08	26.52	24.28	20.56	17.63
	56.82	50.33	44.90	40.30	36.37	32.99	30.06	27.50	25.25	21.52	18.55
4'-6"	73.24	61.06	51.44	43.74	37.50	32.39	28.17	24.66	21.70	17.07	13.52
	49.89	44.03	39.14	35.00	31.48	28.46	25.85	23.58	21.58	18.28	15.67
	50.51	44.74	39.91	35.82	32.33	29.32	26.72	24.44	22.45	19.13	16.49
5'-0"	65.92	54.96	46.30	39.36	33.75	29.15	25.36	22.19	19.53	15.36	12.17
	44.90	39.63	35.22	31.50	28.34	25.62	23.26	21.22	19.43	16.45	14.10
	45.46	40.27	35.92	32.24	29.09	26.39	24.04	22.00	20.20	17.22	14.84
5'-6"	59.93	49.96	42.09	35.79	30.68	26.50	23.05	20.17	17.76	13.97	11.07
	40.82	36.03	32.02	28.64	25.76	23.29	21.15	19.29	17.66	14.96	12.82
	41.33	36.61	32.65	29.31	26.45	23.99	21.86	20.00	18.37	15.65	13.49
6'-0"	54.93	45.80	38.58	32.80	28.13	24.30	21.13	18.49	16.28	12.80	10.14
	37.42	33.02	29.35	26.25	23.61	21.35	19.39	17.68	16.19	13.71	11.75
	37.88	33.56	29.93	26.86	24.24	21.99	20.04	18.33	16.84	14.35	12.37
6'-6"	50.71	42.27	35.61	30.28	25.96	22.43	19.51	17.07	15.02	11.82	9.36
	34.54	30.48	27.09	24.23	21.80	19.70	17.90	16.32	14.94	12.66	10.85
	34.97	30.98	27.63	24.80	22.38	20.30	18.50	16.92	15.54	13.24	11.42
7'-0"	47.09	39.26	33.07	28.12	24.11	20.82	18.11	15.85	13.95	10.97	8.69
	32.07	28.31	25.16	22.50	20.24	18.30	16.62	15.16	13.88	11.75	10.07
	32.47	28.76	25.66	23.03	20.78	18.85	17.17	15.71	14.43	12.30	10.60