

BW5100 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: 51501 + 51508											
Ix = 4.1437 in ⁴ Sx = 1.8135 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"	173.91	144.99	122.14	103.85	89.04	76.92	66.90	58.55	51.53	40.53	32.11
	159.47	140.56	124.77	111.45	100.12	90.40	82.00	74.70	68.31	57.72	49.36
	166.37	147.37	131.45	117.98	106.47	96.58	88.00	80.51	73.94	63.00	54.32
3'-6"	149.06	124.27	104.69	89.02	76.32	65.93	57.34	50.18	44.17	34.74	27.52
	136.69	120.48	106.94	95.53	85.82	77.48	70.29	64.03	58.55	49.47	42.31
	142.60	126.32	112.67	101.12	91.26	82.78	75.42	69.01	63.38	54.00	46.56
4'-0"	130.43	108.74	91.61	77.89	66.78	57.69	50.17	43.91	38.65	30.40	24.08
	119.60	105.42	93.58	83.59	75.09	67.80	61.50	56.02	51.23	43.29	37.02
	124.77	110.53	98.59	88.48	79.86	72.43	66.00	60.38	55.46	47.25	40.74
4'-6"	115.94	96.66	81.43	69.23	59.36	51.28	44.60	39.03	34.35	27.02	21.41
	106.31	93.71	83.18	74.30	66.75	60.27	54.67	49.80	45.54	38.48	32.91
	110.91	98.25	87.63	78.65	70.98	64.38	58.66	53.67	49.29	42.00	36.22
5'-0"	104.34	86.99	73.28	62.31	53.42	46.15	40.14	35.13	30.92	24.32	19.27
	95.68	84.34	74.86	66.87	60.07	54.24	49.20	44.82	40.98	34.63	29.62
	99.82	88.42	78.87	70.79	63.88	57.95	52.80	48.31	44.36	37.80	32.59
5'-6"	94.86	79.08	66.62	56.65	48.57	41.95	36.49	31.93	28.11	22.11	17.52
	86.98	76.67	68.06	60.79	54.61	49.31	44.73	40.74	37.26	31.48	26.92
	90.75	80.38	71.70	64.35	58.08	52.68	48.00	43.91	40.33	34.36	29.63
6'-0"	86.95	72.49	61.07	51.93	44.52	38.46	33.45	29.27	25.76	20.26	16.06
	79.73	70.28	62.38	55.73	50.06	45.20	41.00	37.35	34.15	28.86	24.68
	83.18	73.68	65.72	58.99	53.24	48.29	44.00	40.25	36.97	31.50	27.16
6'-6"	80.26	66.92	56.37	47.93	41.10	35.50	30.88	27.02	23.78	18.71	14.82
	73.60	64.87	57.59	51.44	46.21	41.72	37.85	34.48	31.53	26.64	22.78
	76.78	68.02	60.67	54.45	49.14	44.57	40.61	37.16	34.13	29.08	25.07
7'-0"	74.53	62.14	52.35	44.51	38.16	32.96	28.67	25.09	22.08	17.37	13.76
	68.34	60.24	53.47	47.76	42.91	38.74	35.14	32.01	29.27	24.74	21.15
	71.30	63.16	56.34	50.56	45.63	41.39	37.71	34.50	31.69	27.00	23.28

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

Standard Mullion: 51512 + 51508		Ix = 8.2837 in ⁴ Sx = 3.3967 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"	164.36	137.03	115.43	98.15	84.15	72.69	63.22	55.33	48.70	38.30	30.35
	153.36	135.19	120.02	107.22	96.33	86.99	78.92	71.90	65.76	55.57	47.54
	159.41	141.21	125.96	113.05	102.02	92.54	84.32	77.14	70.85	60.37	52.05
3'-6"	140.88	117.45	98.94	84.13	72.13	62.31	54.19	47.43	41.74	32.83	26.01
	131.45	115.88	102.87	91.91	82.57	74.56	67.65	61.63	56.36	47.63	40.75
	136.64	121.04	107.96	96.90	87.45	79.32	72.27	66.12	60.73	51.75	44.62
4'-0"	123.27	102.77	86.58	73.61	63.11	54.52	47.42	41.50	36.52	28.73	22.76
	115.02	101.39	90.02	80.42	72.25	65.24	59.19	53.92	49.32	41.68	35.65
	119.56	105.91	94.47	84.78	76.52	69.40	63.24	57.86	53.14	45.28	39.04
4'-6"	109.57	91.35	76.96	65.43	56.10	48.46	42.15	36.89	32.47	25.54	20.23
	102.24	90.13	80.01	71.48	64.22	57.99	52.61	47.93	43.84	37.05	
	106.27	94.14	83.97	75.36	68.02	61.69	56.21	51.43	47.23	40.25	34.70
5'-0"	98.62	82.22	69.26	58.89	50.49	43.62	37.93	33.20	29.22	22.98	18.21
	92.02	81.12	72.01	64.33	57.80	52.19	47.35	43.14	39.45	33.34	28.52
	95.65	84.73	75.57	67.83	61.21	55.52	50.59	46.29	42.51	36.22	31.23
5'-6"	89.65	74.74	62.96	53.54	45.90	39.65	34.49	30.18	26.56	20.89	16.55
	83.65	73.74	65.47	58.49	52.55	47.45	43.05	39.22	35.87	30.31	25.93
	86.95	77.02	68.70	61.66	55.65	50.48	45.99	42.08	38.65	32.93	28.39
6'-0"	82.18	68.51	57.72	49.08	42.08	36.35	31.61	27.67	24.35	19.15	15.17
	76.68	67.60	60.01	53.61	48.17	43.50	39.46	35.95	32.88	27.79	23.77
	79.71	70.60	62.98	56.52	51.01	46.27	42.16	38.57	35.42	30.18	26.03
6'-6"	75.86	63.24	53.28	45.30	38.84	33.55	29.18	25.54	22.48	17.68	14.01
	70.78	62.40	55.39	49.49	44.46	40.15	36.42	33.18	30.35	25.65	
	73.57	65.17	58.13	52.18	47.09	42.71	38.92	35.61	32.70	27.86	24.02
7'-0"	70.44	58.73	49.47	42.06	36.07	31.15	27.10	23.71	20.87	16.42	13.01
	65.73	57.94	51.44	45.95	41.29	37.28	33.82	30.81	28.18	23.82	20.37
	68.32	60.52	53.98	48.45	43.72	39.66	36.14	33.06	30.36	25.87	22.31