

Number of member	Member length (ft)	Dead load (Kips)	Wind load stress (Kips)							
			Dutchmen wind force		External force + Internal pressure		External force + Internal suction		Design stress	
			Left	Right	Left	Right	Left	Right	Tension	Compression
L0L1	20.03	61.77	124.06	4.98	-43.58	-55.55	12.5	0.5	185.83	6.22
L1L2	20.03	53.24	99.25	4.98	-35.26	-44.78	10	0.5	152.49	8.46
L2L3	24.04	36.44	49.62	4.98	-18.72	-23.22	5	0.5	86.06	13.22
L3L4	24.04	36.44	49.62	4.98	-18.72	-23.22	5	0.5	86.06	13.22
L4L5	20.03	53.24	49.62	54.61	-40.28	-39.8	5	5.5	107.85	12.96
L5L6	20.03	61.77	49.62	79.42	-51.05	-48.08	5	8	141.19	10.72
L0U1	17.92	-69.06	-99.88	-55.48	57.46	61.9	-10.06	-5.59	7.16	168.94
U1U2	17.92	-66.99	-99.88	-55.48	57.45	61.9	-10.06	-5.59	5.09	166.87
U2U3	17.92	-59.11	-99.88	-55.48	57.45	61.9	-10.06	-5.59	2.79	158.99
U3U4	17.92	-57.03	-99.86	-55.47	57.44	61.9	-10.06	-5.59	4.87	156.89
U4U5	17.92	-57.03	-55.47	-99.67	61.89	57.44	-5.59	-10.06	4.86	156.7
U5U6	17.92	-59.11	-55.49	-99.88	61.9	57.45	-5.59	-10.06	2.79	158.99
U6U7	17.92	-66.99	-55.48	-99.88	61.9	57.45	-5.59	-10.06	5.09	166.87
U7L6	17.92	-69.06	-55.48	-99.88	61.9	57.46	-5.59	-10.06	7.16	168.94
U1L1	8.96	-4.13	-22.19	0	7.41	9.64	-2.24	0	5.51	26.32
U2L2	17.92	-11.18	-44.39	0	14.82	19.28	-4.47	0	8.1	55.57
L3U4	32.05	6.25	0	0	0	0	0	0	6.25	6.25
L4U6	17.92	-11.18	0	-44.39	19.28	14.82	0	-4.47	8.1	55.57
L5U7	8.96	-4.13	0	-22.19	9.64	7.41	0	-2.24	5.51	26.32
L5U6	20.03	11.14	0	24.81	-10.78	-8.29	0	2.5	35.95	0.36
U9L4	20.03	19.67	0	49.63	-21.56	-16.56	0	5	69.3	1.89
L2U8	20.03	19.67	49.63	0	-16.56	-21.56	5	0	69.3	1.89
L1U2	20.03	11.14	24.81	0	-8.29	-10.78	2.5	0	35.95	0.36
U2U8	20.03	4.63	24.82	0	-8.29	-10.78	2.5	0	29.45	6.15
U3U8	8.96	-4.13	-22.19	0	7.41	9.64	-2.24	0	5.51	26.32
U4U8	20.03	24.28	74.43	0	-24.85	-32.32	7.5	0	98.71	8.04
U4U9	20.03	24.28	0	74.43	-32.32	-24.85	0	7.5	98.71	8.04
U5U9	8.96	-4.13	0	-22.19	9.64	7.41	0	-2.24	5.51	26.32
U6U9	20.03	4.63	0	24.82	-10.78	-8.29	0	2.5	29.45	6.15