

# WIND UPLIFT TESTING

## UL 580 TEST LOADS

Gross Uplift Lbs./sq.ft.	Indicated Wind Velocity MPH	True Wind Velocity MPH	Velocity Pressure Lbs./sq.in.	Positive Pressure Underside $\square 0.6 V_p$ .		Negative Pressure Topside $\square 0.7 V_p$ .	
				Lbs./sq.ft.	In. H <sub>2</sub> O	Lbs./sq.ft.	In. H <sub>2</sub> O
30	100	95	23.08	13.85	2.7	16.15	3.1
45	122	116	34.61	20.77	4.0	24.23	4.7
60	142	134	46.15	27.69	5.3	32.31	6.2
75	159	150	57.69	34.62	6.7	40.38	7.8
90	174	164	69.23	41.54	8.0	48.46	9.3
105	188	178	80.77	48.40	9.3	56.54	10.9

Class	Minutes	In. H <sub>2</sub> ) Neg.	In. H <sub>2</sub> O Pos.	Lbs./sq. ft. Neg.	Lbs./sq.ft. Pos.	Lbs./sq.ft. Total
30	5	3.1	0	16.15	0	16.15
	5	3.1	2.7	16.15	13.85	30.00
	60	1.5 $\square$ 5.3	2.7	8.07 $\square$ 27.69	13.85	21.92 $\square$ 41.54
	5	4.7	0	24.23	0	24.23
	5	4.7	4.0	24.23	20.77	45.00
60	5	6.2	0	32.31	0	32.31
	5	6.2	5.3	32.31	27.69	60
	60	3.1 $\square$ 10.16	5.3	16.15 $\square$ 55.38	27.69	44.84 $\square$ 83.07
	5	7.8	0	40.38	0	40.38
	5	7.8	6.7	40.38	34.62	75.00
90	5	9.3	0	48.46	0	48.46
	5	9.3	8.0	48.46	41.54	90.00
	60	4.7 $\square$ 9.3	8.0	24.23 $\square$ 48.46	41.54	65.77 $\square$ 90.02
	5	10.9	0	56.54	0	56.54
	5	10.9	9.3	56.54	48.46	105.00