

**R.L. Plowfield and Associates, Inc.**  
Consulting Structural Engineers

Job #:						
Job Name: ERAU Print Shop						
Components and Cladding Wind Pressures (Using ASCE 7-10 Ch. 30)						
Zone	Trib	GCp	GCpi		Wind Pressure	
			+	-	Positive	Negative
1	10	0	16.00	16.00	16.0	-45.2
		-1.4	-45.17	-34.88		
	20	0	16.00	16.00	16.0	-42.3
		-1.3	-42.31	-32.02		
	50	0	16.00	16.00	16.0	-39.5
		-1.2	-39.45	-29.16		
	100	0	16.00	16.00	16.0	-36.6
		-1.1	-36.59	-26.30		
2	10	0	16.00	16.00	16.0	-70.9
		-2.3	-70.90	-60.61		
	20	0	16.00	16.00	16.0	-68.0
		-2.2	-68.04	-57.75		
	50	0	16.00	16.00	16.0	-62.3
		-2	-62.32	-52.03		
	100	0	16.00	16.00	16.0	-59.5
		-1.9	-59.46	-49.17		
3	10	0	16.00	16.00	16.0	-96.6
		-3.2	-96.63	-86.34		
	20	0	16.00	16.00	16.0	-90.9
		-3	-90.91	-80.62		
	50	0	16.00	16.00	16.0	-85.2
		-2.8	-85.20	-74.90		
	100	0	16.00	16.00	16.0	-83.8
		-2.75	-83.77	-73.47		
4	10	0.9	20.58	30.88	30.9	-30.9
		-0.9	-30.88	-20.58		
	20	0.9	20.58	30.88	30.9	-30.9
		-0.9	-30.88	-20.58		
	50	0.8	17.73	28.02	28.0	-29.4
		-0.85	-29.45	-19.15		
	100	0.75	16.30	26.59	26.6	-28.0
		-0.8	-28.02	-17.73		
5	10	0.9	20.58	30.88	30.9	-56.6
		-1.8	-56.61	-46.31		
	20	0.9	20.58	30.88	30.9	-56.6
		-1.8	-56.61	-46.31		
	50	0.8	17.73	28.02	28.0	-50.9
		-1.6	-50.89	-40.60		
	100	0.75	16.30	26.59	26.6	-45.2
		-1.4	-45.17	-34.88		

Constants						
GCpi	0.18	-0.18	h (ft)	20	Exposure	B
V	137		Kzt	1		
Kh	0.70		Kd	0.85		
qz (psf)	28.59					