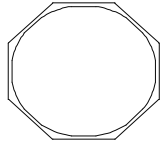


Octagonal Column 8"			
Part Number CP076			
Series: E-glass/polyurethane			
A = 7.72 in ² , r = 2.81 in			
Pinned-Pinned End Conditions, K = 1			
Allowable Axial Load Safety Factor = 3			
Effective Column Length (KL) (ft.)	KL/r	Fa (psi)	Allowable Compression Load Pa (lbs.)
3.0	12.8	12723	98224
4.0	17.1	12520	96654
5.0	21.4	12317	95084
6.0	25.6	12113	93514
7.0	29.9	11910	91944
8.0	34.2	10711	82690
9.0	38.4	8463	65335
10.0	42.7	6855	52921
11.0	47.0	5665	43737
12.0	51.2	4760	36751
13.0	55.5	4056	31314
14.0	59.8	3498	27001
15.0	64.1	3047	23521
16.0	68.3	2678	20672
17.0	72.6	2372	18312
18.0	76.9	2116	16334
19.0	81.1	1899	14660
20.0	85.4	1714	13230



Octagonal	Dimension	Thickness	Area	E	K	r	Compression strength
Polyurethane	8" octagonal	0.25	7.72	3.80E+06	1	2.810	40000
CP076							

Column Length (ft.)	Effective Column Length (KL)	KL/r	Fa Short Column (psi)	Fa Long Column (psi)	Fa (psi)	Pa (lbs.)
3	3.0	12.8	38169.8	228504	38170	294671
4	4.0	17.1	37559.7	128533	37560	289961
5	5.0	21.4	36949.7	82261	36950	285251
6	6.0	25.6	36339.6	57126	36340	280542
7	7.0	29.9	35729.5	41970	35730	275832
8	8.0	34.2	35119.5	32133	32133	248069
9	9.0	38.4	34509.4	25389	25389	196005
10	10.0	42.7	33899.3	20565	20565	158764
11	11.0	47.0	33289.3	16996	16996	131210
12	12.0	51.2	32679.2	14281	14281	110253
13	13.0	55.5	32069.1	12169	12169	93943
14	14.0	59.8	31459.1	10493	10493	81002
15	15.0	64.1	30849.0	9140	9140	70562
16	16.0	68.3	30238.9	8033	8033	62017
17	17.0	72.6	29628.9	7116	7116	54936
18	18.0	76.9	29018.8	6347	6347	49001
19	19.0	81.1	28408.7	5697	5697	43979
20	20.0	85.4	27798.7	5141	5141	39691