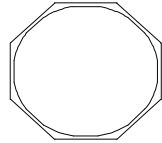


<b>Octagonal Column 10"</b>			
Part Number CP074			
Series: E-glass/polyurethane			
A = 10.76 in <sup>2</sup> , r = 3.60 in			
Pinned-Pinned End Conditions, K = 1			
<b>Allowable Axial Load</b> Safety Factor = 3			
Effective Column Length (KL) (ft.)	KL/r	Fa (psi)	Allowable Compression Load Pa (lbs.)
3.0	10.0	13524	145516
4.0	13.3	13365	143808
5.0	16.7	13206	142100
6.0	20.0	13048	140392
7.0	23.3	12889	138684
8.0	26.7	12730	136977
9.0	30.0	12571	135269
10.0	33.3	11844	127437
11.0	36.7	9788	105320
12.0	40.0	8225	88498
13.0	43.3	7008	75406
14.0	46.7	6043	65019
15.0	50.0	5264	56639
16.0	53.3	4626	49780
17.0	56.7	4098	44096
18.0	60.0	3655	39332
19.0	63.3	3281	35301
20.0	66.7	2961	31859



Octagonal	Dimension	Thickness	Area	E	K	r	Compression strength
Polyurethane	10" octagonal	0.25	10.76	4.00E+06	1	3.600	42000
CP074							

Column Length (ft.)	Effective Column Length (KL)	KL/r	Fa Short Column (psi)	Fa Long Column (psi)	Fa (psi)	Pa (lbs.)
3	3.0	10.0	40571.4	394786	40571	436549
4	4.0	13.3	40095.2	222067	40095	431425
5	5.0	16.7	39619.0	142123	39619	426301
6	6.0	20.0	39142.9	98697	39143	421177
7	7.0	23.3	38666.7	72512	38667	416053
8	8.0	26.7	38190.5	55517	38190	410930
9	9.0	30.0	37714.3	43865	37714	405806
10	10.0	33.3	37238.1	35531	35531	382311
11	11.0	36.7	36761.9	29364	29364	315959
12	12.0	40.0	36285.7	24674	24674	265494
13	13.0	43.3	35809.5	21024	21024	226219
14	14.0	46.7	35333.3	18128	18128	195057
15	15.0	50.0	34857.1	15791	15791	169916
16	16.0	53.3	34381.0	13879	13879	149340
17	17.0	56.7	33904.8	12294	12294	132287
18	18.0	60.0	33428.6	10966	10966	117997
19	19.0	63.3	32952.4	9842	9842	105903
20	20.0	66.7	32476.2	8883	8883	95578