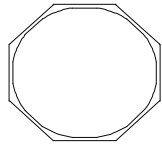


Octagonal Column 10" Heavy Duty			
Part Number CP210			
Series: E-glass/polyurethane			
A = 13.47 in ² , r = 3.57 in			
Pinned-Pinned End Conditions, K = 1			
Allowable Axial Load Safety Factor = 3			
Effective Column Length (KL) (ft.)	KL/r	Fa (psi)	Allowable Compression Load Pa (lbs.)
3.0	10.1	16186	218032
4.0	13.4	16026	215876
5.0	16.8	15866	213720
6.0	20.2	15706	211564
7.0	23.5	15546	209408
8.0	26.9	15386	207252
9.0	30.3	15226	205095
10.0	33.6	13103	176496
11.0	37.0	10829	145864
12.0	40.3	9099	122567
13.0	43.7	7753	104435
14.0	47.1	6685	90049
15.0	50.4	5824	78443
16.0	53.8	5118	68944
17.0	57.1	4534	61071
18.0	60.5	4044	54474
19.0	63.9	3630	48891
20.0	67.2	3276	44124



Octagonal	Dimension	Thickness	Area	E	K	r	Compression strength
Polyurethane	10" octagonal	0.275	13.47	4.50E+06	1	3.570	50000
CP210							

Column Length (ft.)	Effective Column Length (KL)	KL/r	Fa Short Column (psi)	Fa Long Column (psi)	Fa (psi)	Pa (lbs.)
3	3.0	10.1	48559.4	436763	48559	654095
4	4.0	13.4	48079.2	245679	48079	647627
5	5.0	16.8	47599.0	157235	47599	641159
6	6.0	20.2	47118.8	109191	47119	634691
7	7.0	23.5	46638.7	80222	46639	628223
8	8.0	26.9	46158.5	61420	46158	621755
9	9.0	30.3	45678.3	48529	45678	615286
10	10.0	33.6	45198.1	39309	39309	529488
11	11.0	37.0	44717.9	32486	32486	437593
12	12.0	40.3	44237.7	27298	27298	367700
13	13.0	43.7	43757.5	23260	23260	313306
14	14.0	47.1	43277.3	20055	20055	270147
15	15.0	50.4	42797.1	17471	17471	235328
16	16.0	53.8	42316.9	15355	15355	206831
17	17.0	57.1	41836.7	13602	13602	183214
18	18.0	60.5	41356.5	12132	12132	163422
19	19.0	63.9	40876.4	10889	10889	146672
20	20.0	67.2	40396.2	9827	9827	132372