

32 foot Parabolic dome 804 square feet
(800 sq.ft is the maximum tent size allowed)

The tubing recommended is top rail, as used along the tops of chain link fences. The pattern shown in the table below is repeated six times around the circle. Be advised that as of this writing, I have not actually built this dome.

The strut lengths provided are the center-to-center bolt hole distances, so be sure to add 0.2 feet to these lengths so that the bolt holes can be drilled 0.1 feet from each end.

I would recommend bolt diameters of 3/8”.

	Chord factor	Radius	strut length	qty	tot.strut lengths
AB	0.2577	16.0	4.1231	6	24.73863
BB	0.2500	16.0	4.0000	6	24
BC	0.3125	16.0	5.0000	6	30
BD	0.3621	16.0	5.7943	12	69.53207
CD	0.2588	16.0	4.1411	12	49.69324
CF	0.4532	16.0	7.2511	12	87.01366
CE	0.4002	16.0	6.4031	6	38.41875
DF	0.4142	16.0	6.6270	12	79.5238
EF	0.2605	16.0	4.1676	12	50.01066
EH	0.5523	16.0	8.8365	12	106.0385
EG	0.5039	16.0	8.0623	6	48.37355
FF	0.2605	16.0	4.1676	6	25.00533
FH	0.5095	16.0	8.1524	12	97.82851
FI	0.5260	16.0	8.4163	12	100.9954
GHI	0.2611	16.0	4.1768	24	100.2441
		tot.len.=			931.4162

