

Layer	Radius on Flange (in.)	Load on Flange (lbf./in)	Distance from Core (in.)	Length of Radial Force (in.)	a (in)	Deflection/ Layer (in.)
1	23.55	318	0.55	24.66	1.66	0.00004
2	24.51	0	1.51	25.66	2.66	0.00000
3	25.46	567	2.46	26.66	3.66	0.00036
4	26.42	0	3.42	27.66	4.66	0.00000
5	27.37	446	4.37	28.66	5.66	0.00068
6	28.32	0	5.32	29.66	6.66	0.00000
7	29.28	341	6.28	30.66	7.66	0.00095
8	30.23	0	7.23	31.66	8.66	0.00000
9	31.19	249	8.19	32.66	9.66	0.00110
10	32.14	0	9.14	33.66	10.66	0.00000
11	33.10	167	10.10	34.66	11.66	0.00106
12	34.05	0	11.05	35.66	12.66	0.00000
13	35.01	95	12.01	36.66	13.66	0.00080
14	35.96	0	12.96	37.66	14.66	0.00000
15	36.92	30	13.92	38.66	15.66	0.00032

Note: Only every other layer touches the flange.

20 in Length of flange to core
 30000000 psi Modulus of elasticity
 104.89 in⁴ Moment of inertia

Total deflection: 0.005 in.

**For Reference
 Only**