

Bowl using stacked laminated rings with an equal offset rotation for each row

Start with a plan

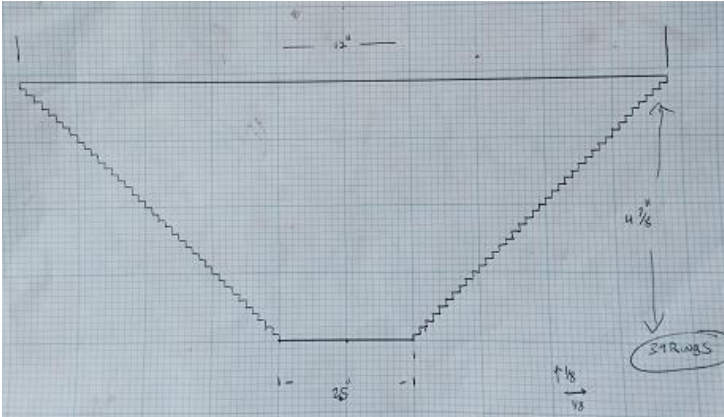


Figure 1

Create table of rings, with designed diameter increase for each row, row height, and row depth. Spreadsheet works best for this, see figure 2.

Ring Width	0.75	Ring Height	0.125	Row		dia	
Radius Increase	0.125	Board #		dia		Row	
# of boards required	6	Bowl Height		Row		dia	
Ring #	ID	OD	Board #	Bowl Height	Row	dia	
40	10.75	12.25	4	5			
39	10.5	12	3	4.875	6	11.25	
38	10.25	11.75	2	4.75	6	9.75	
37	10	11.5	1	4.625	6	6.75	
36	9.75	11.25	6	4.5	6	5.25	
35	9.5	11	5	4.375	6	3.75	
34	9.25	10.75	4	4.25	5	11	
33	9	10.5	3	4.125	5	9.5	
32	8.75	10.25	2	4	5	8	
31	8.5	10	1	3.875	5	6.5	
30	8.25	9.75	6	3.75	5	5	
29	8	9.5	5	3.625	5	3.5	
28	7.75	9.25	4	3.5	4	12.25	
27	7.5	9	3	3.375	4	10.75	
26	7.25	8.75	2	3.25	4	9.25	
25	7	8.5	1	3.125	4	7.75	
24	6.75	8.25	6	3	4	6.25	
23	6.5	8	5	2.875	4	4.75	
22	6.25	7.75	4	2.75	4	3.25	
21	6	7.5	3	2.625	3	12	
20	5.75	7.25	2	2.5	3	10.5	
19	5.5	7	1	2.375	3	9	
18	5.25	6.75	6	2.25	3	7.5	
17	5	6.5	5	2.125	3	6	
16	4.75	6.25	4	2	3	4.5	
15	4.5	6	3	1.875	3	3	
14	4.25	5.75	2	1.75	2	11.75	
13	4	5.5	1	1.625	2	10.25	
12	3.75	5.25	6	1.5	2	8.75	
11	3.5	5	5	1.375	2	7.25	
10	3.25	4.75	4	1.25	2	5.75	
9	3	4.5	3	1.125	2	4.25	
8	2.75	4.25	2	1	2	2.75	
7	2.5	4	1	0.875	1	11.5	
6	2.25	3.75	6	0.75	1	10	
5	2	3.5	5	0.625	1	8.5	
4	1.75	3.25	4	0.5	1	7	
3	1.5	3	3	0.375	1	5.5	
2	1.25	2.75	2	0.25	1	4	
1 Solid Base	0	2.5	1	0.125	1	2.5	

Figure 2 (Spreadsheet created by Denny Edwards)

Build board for bowl

Build board large enough to create the panels needed using the design from plan above.

Dry fit strips



Figure 3

Glue up strips



Figure 4

Glue section together



Figure 5

Final board size 12"x 24" x 1.4"



Figure 6



Figure 7

Cut the panels



Figure 8



Figure 9

Draw rings on the panels



Figure 10



Figure 11

Cut out the rings



Figure 12

Lightly Sand rings



Figure 13

Glue first ring to waste block



Figure 14

Glue pairs of rings



Figure 15

Glue rings with a small but equal offset rotation



Figure 16



Figure 17



Figure 18