The Bayside Woodies Newsletter

July 2011

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The Club's Web Page is www.baysidewoodies.com

The Newsletter Editor email – newsletter@baysidewoodies.com

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Presidents Report.

The end of May and the month of June were very busy for our Club; the working with Wood Show was an outstanding success, well done to those who put in the time to make it so.
The Crackerjack Carnival was also a great success owing to the effort of those who flew the flag for the Club, Dave "A" reports that sales of members work was some of the best that have been achieved for quite a few years.

Then there was the Fort Lytton demo (even I sold some work) we talked to lot of people who now know that we exist and who knows we may even sign up a couple of them as new members.
Not to be forgotten was the outing to the Birkdale Scouts Day. Eric, Derrick & Enid represented the Club, many "toggles" were turned & decorated.

On this same weekend a group of our members attended a "camp" at Somerset Dam from all the reports sounds like I missed a great time by not attending.

If you have never been to a Club Display they are a great way to get to know other members and to meet lots of other people who are interested in woodworking, do yourself favour & try to go along to one of our displays in the near future.

Upcoming events Mt Gravatt Show, Redfest and the Vintage Truck Show (there is a rumour that one or members who is of Scottish heritage is going to wear his *skirt* and even play a tune on an instrument made of an animal skin with hollow tubes stuck in it.)

The Club rooms have been abuzz with activity; one of the highlights would have to be the presentation by Ed Newbury so much so if Milton is stuck for a demo in the future I have asked him to get Ed back to talk on the same topic "Segmented Turning" **Bill S**

Editorial

Over the past month and for the next couple of months the club will be extremmely busy, with big Demos, Displays, Fetes, Shows, Gatton truck show in conjunction with Laidley Woodies and members going on weekends away with other clubs, IT'S ALL SYSTEMS GO GO GO.

I'd like to have a little winge [not like me you say].
Some members love to talk whilst Demos or Show and Tells are under way.
If this is not displaying disrespect and ignorance on your behalf, towards the Demonstrator or presenter, then I don't know what it is.
Organizing Demos for the club isn't an easy task and I hope to have the best presenters to broarden your knowledge of wood working. I will keep looking for new demonstrators over the next 12mths…….Milton

Place this into your Diaries

In your Events Calender a change is happening, Bob Webb was to do a Demo in Sept, but has cancelled due to a medicial condition Please keep this date in the back of your mind as a terrific demo will be set up.

Social Night

The 25th of June was a great social evening for about 20 members at the Redlands Sporting Club.
We all had a good evening with plenty of chat and not much on wooden topics, these events are to bring together members and family, meet new friends enjoy good food and company.
Thanks to those members that did attend.
Next social could be in Sept/Oct over Manly way.

FIRST DEMO DAY.

The first Demo this month is Jim Thallon; he will demo how to finish your master pieces with a Spray Finish.
A not to be missed Demo.

Second Demo Day 3rd Sat of the mth.

Craft Day for Carvers and Pyros. The last time this got together was a great day, so don't miss this one.

THIRD DEMO DAY.

Due to Mt Gravatt Show on the same weekend, the Club house will be open BUT no Demo, as we prefer members to assist with running the show stand.
The Demo for this day has been postponed to the 3rd of Sept.

Tool Sharpening and Tool Making Demo
Transferred to the 3rd of Sept

Another not to be missed Demo.
Bill will show how he sharpens tools his way and how to make some easy to use tools.

Trips away.

July 23 to 24th Mt Gravatt Show Update on dates

Aug 19 – 21st Tudor and Turn Rockie, [booked out, full]

Sept 9 to 11th Redlands Redfest

Sept 23 to 25th 18th Annual Truck & Machinery Show @ Gatton Showgrounds

Oct 'Y.E.T' Festival no date as yet

Oct 15th Morton Bay Girls College 2 to 5pm

Oct 21st Gumdale State School 4 pm

June 2012 15th to 17th Q-Turn

Cracker Jack Carnival.

This was another fantastic weekend away, some members were happy with their sales, but all enjoyed the weekend whether talking to the public or spreading the gospel about the club or just demonstrating and putting a smile on some little childs' face when you gave them the item you just made.

Q – TURN 2011

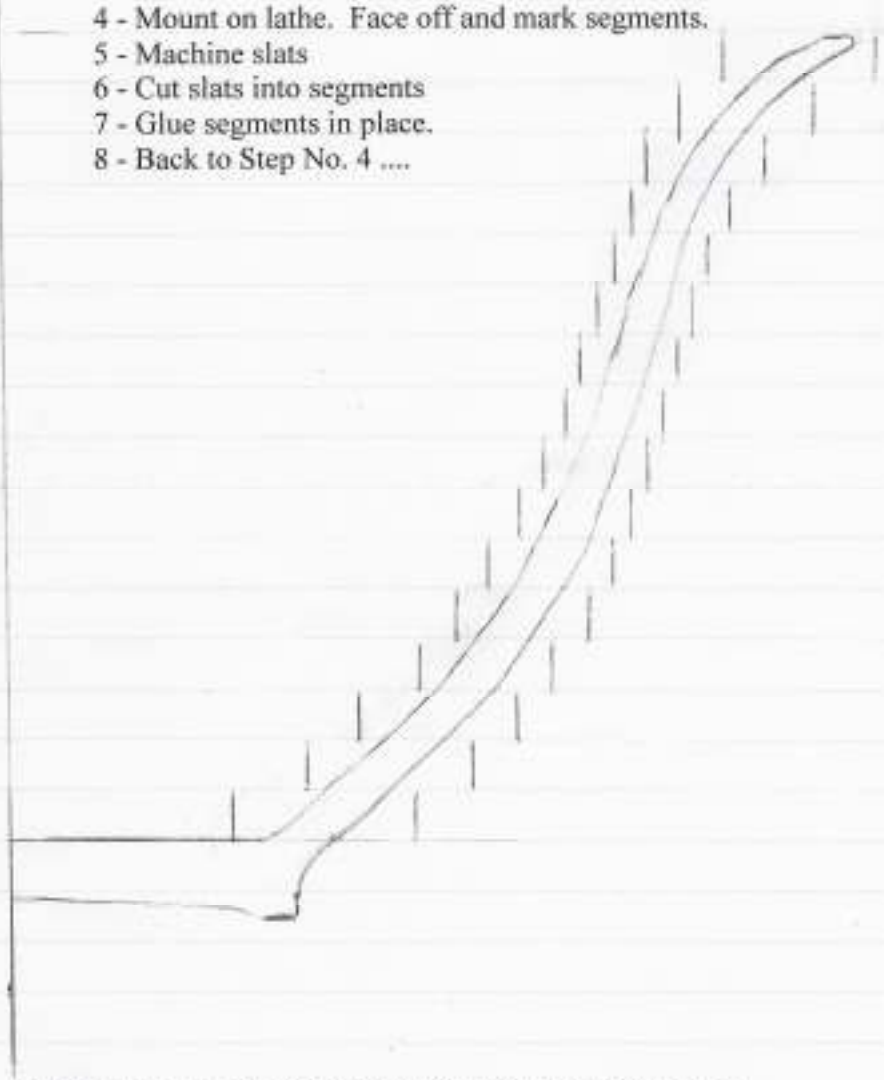
What a fantastic weekend of turning, friendship, mateship and just meeting new or old friends from NSW and QLD. Woodies from Scone to Bundie and a lot of towns between were present. Four members from our club and another 4 members with attachments to our and another club were also there.
The workmanship and finished product for the weekend was over the top, and a few of these woodies will be Demonstrating at our club over the next 12mths.
The next Q-TURN has already been booked for next year [2012], June 15th to the 17th.
Be there or be square, book soon to advoid dissapointment.

Demo Day for the 25th June

If you missed this demo you missed one of the best presenters this year. Ed Newbury presented a demo on Segmented Turning. No one went to sleep and no one talked during the presentation. It was a magicial Experence to listern to Ed make this demo look so simple. Well done Ed, I have enclosed Eds Tenplate for Segmented Turning.

CROSS SECTION FOR SEGMENTED BOWLS

Step 1 - Make Set Out Board
2 - Select stock
3 - Cut base; fix face plate ring
4 - Mount on lathe. Face off and mark segments.
5 - Machine slats
6 - Cut slats into segments
7 - Glue segments in place.
8 - Back to Step No. 4 ....



To find the Length of each segment at the widest point

1. **Take the Radius x 2, which equals the *diameter*.**
2. **Take the *diameter* x 3.143, which equals *Circumference***
3. **Take the *circumference* and divide by the number of segments**

FORT LYTTON WEEKEND AWAY.

This was a fantastic weekend and if you missed it, organizes yourself for next year, as we have been asked back.
I wasn't sure what to expect, but really enjoyed myself. We all came away with more knowlage about this event and waiting for next year.
Some pics of the event






FOR SALE.

Bev Weeks has a Pyro Pen for sale.

It's a NDI PYRO PEN Adjustable heat control in V, G, C. Cost $100-00

Rng Bev on 07 3396 6447

Designing a Basic Segmented Bowl Using a No-Math Method

This article was reprinted with the permission of Kevin Neelley. For more information about him and this technique you can visit his website.

This article is intended for the beginning segmented bowl maker. This is basically a "no math" or "graphical" maybe a "very little math" approach to segmented bowl design.

I have made three design sheets that will help the beginner through the design phase. Using these three design sheets,

I have designed a 9-layered bowl using 12-sided frame-mitered rings. This webpage will walk you through the design steps.

The picture to the right is the bowl that is designed in this article. After you're done reading this, you can read more about how to make this bowl. You can also see the plans for a frame-miter table saw sled that makes perfect ring segments.

If you make a similar bowl and follow these steps, your bowl will turn out fine. Don't worry about the details of segmented bowl construction. Instead, spend your time thinking of an original design that you like.

I'm sure that experienced segmented bowl makers don't make bowls using all the steps in this article. I don't make segmented bowls this way either, but I think it's a good learning approach.

Experience will tell you how to modify the steps. Until you are experienced, you shouldn't modify the steps until you understand how the changes will affect the segmented bowl construction.

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Segmented Bowl Design

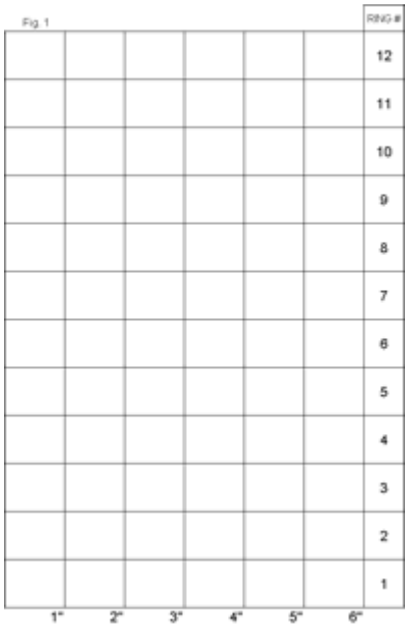
RING #	BOARD WIDTH	INNER SEGMENT WIDTH	OUTER SEGMENT WIDTH	BOARD LENGTH	NOTES
12					
11					
10					
9					
8					
7					
6					
5					
4					
3					
2					
1					

BOARD WIDTH (BW) measurement from Fig. 2, nearest 1/16".
INNER SEGMENT WIDTH (ISW) measurement from Fig. 2, nearest 1/32".
OUTER SEGMENT WIDTH (OSW) measurement from Fig. 2, nearest 1/32".
Formula for BOARD LENGTH:
Where #SEG = Number of Segments in the ring,
and BLADE = Thickness of your table saw blade, usually 1/8"
BOARD LENGTH = (OSW + ISW)*(#SEG / 2) + (OSW - ISW)/2 + (BLADE*#SEG - 1)

DIRECTIONS:
1. Draw the outline of the outer surface of your segmented turning on Fig. 1.
2. Draw the outline of the inner surface of your turning, using 1/2" wall thickness on Fig. 1.
3. Draw the inner and outer ring radius boundaries of each ring on Fig. 1.
4. Use a compass to transfer the inner and outer ring radius boundaries of each ring to Fig. 2.
5. Draw the inner and outer segment width lines on Fig. 2.
6. Measure and record the distance between the inner and outer segment width lines from Fig. 2. This distance is the board width for each ring.
7. Measure and record the inner and outer segment width lines from Fig. 2.
8. Calculate and record the board length using the formula above.

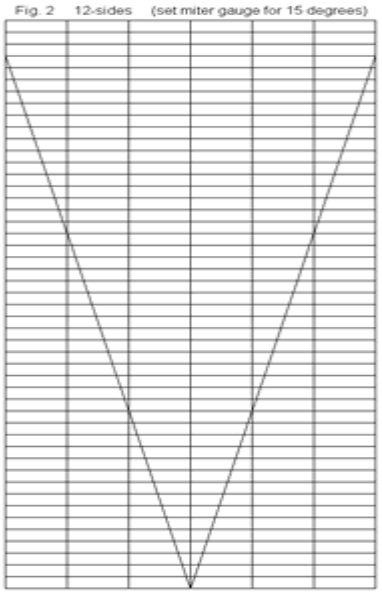
Segmented Bowl Design Sheet & Instructions

This first blank sheet is contains the instructions for using my three design sheets in designing a segmented bowl or vase. This sheet also has a grid for recording design measurements taken from the other two bowl design sheets. The filled-out grid will have all the dimensions necessary for cutting the segments in each of the ring layers.



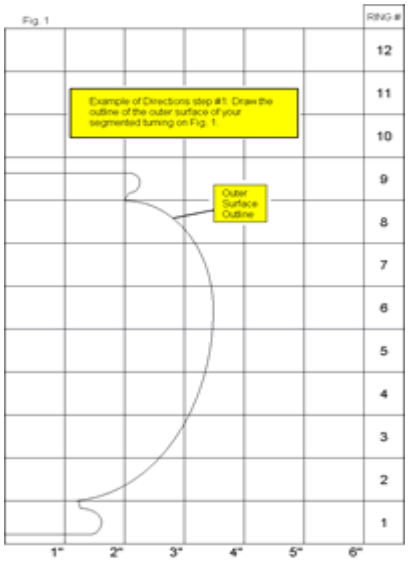
Bowl Design Sheet (Figure 1 Sheet)

This second blank sheet is used for drawing the outline of your bowl. This design sheet is big enough to design a bowl 12" diameter by 12 ring levels tall. Each row, 1 through 12, corresponds with a ring level of your bowl design. The grids on the sheet are intended to be 1" wide by 3/4" tall to make it easy to measure bowl ring dimensions directly from the sheet. But, I found that every printer seems to print the grids at different sizes. So, I suggest printing out one sheet then using a photocopy machine to enlarge the sheet to full 1" grid width.



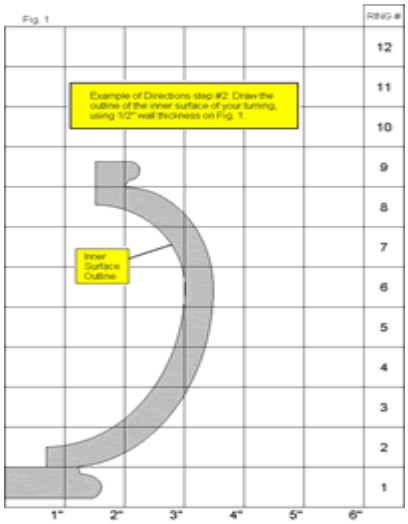
Segment Design Sheet (Figure 2 Sheet)

This third blank sheet is used for drawing one of the segments used in each ring level of your bowl. The dimensions taken off this sheet will be used to accurately cut the segment to size. You will need one of these sheets for each ring of your bowl because the segments are different sizes. This sheet is **ONLY** for 12-sided rings. The angle between the angled lines is 15 degrees, which is the setting angle for your table saw's miter gauge or sled fence. You will need to make a different angled sheet for rings with other than 12 sides. The horizontal and vertical lines on the sheet aren't drawn to any scale and are for reference only. Draw your segment full-size on this sheet.



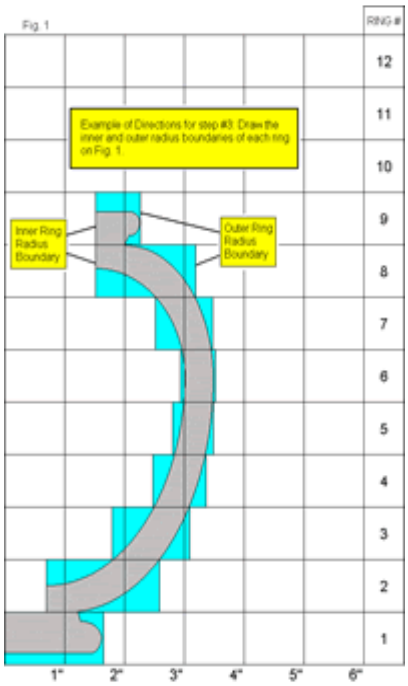
Step #1 (from the Instruction Sheet)

I have drawn the right-hand half outline of the new bowl on the Figure 1 sheet. This is the first step in the design process. If you want to see what the whole outline looks like, hold the left side of the sheet against a mirror so you can see the reflection of the sheet. The entire outline can then be viewed. This design has 9 rings. The bottom ring will be a solid disk. The other 8 rings will be segmented. I have decided to make the top, middle, and bottom rings from purpleheart and the rest of the rings from maple. The bowl will be made from 3/4" thick kiln-dried lumber, purchased from a local lumberyard.



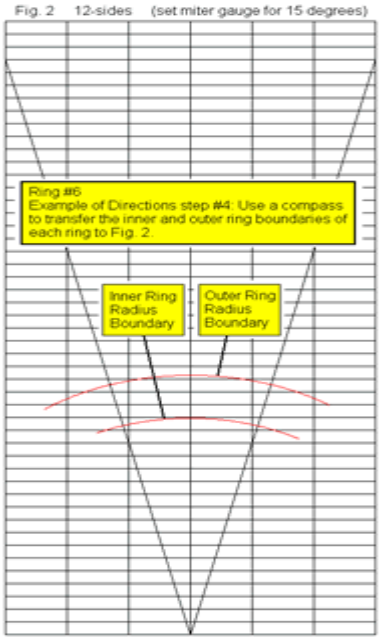
Step #2 (from the Instruction Sheet)

In this step I have drawn the inner surface outline of the new bowl on the Figure 1 sheet using 1/2" wall thickness. The 1/2" wall thickness does not mean I'm going to turn the bowl to 1/2" thickness. The 1/2" is just a reasonably safe design thickness. You can turn your bowl thinner. On the other hand, if you don't make your segmented rings very accurately and they end up egg-shaped or the wrong diameter, then 1/2" might not be big enough. We'll take our chances on this one because I'm using a really accurate mitering sled.



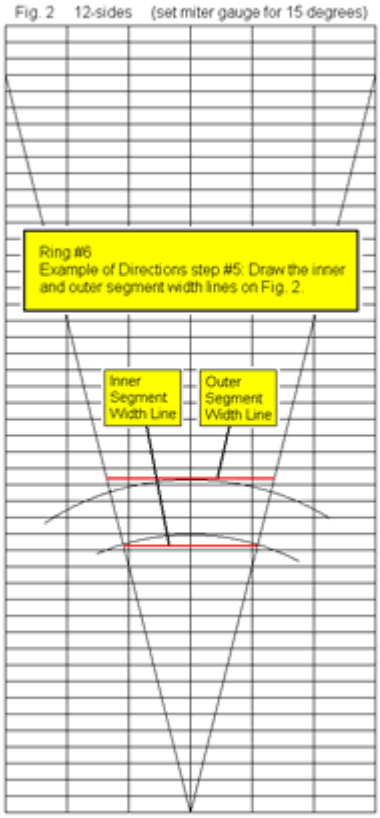
Step #3 (from the Instruction Sheet)

I have drawn the inner and outer ring boundaries for each ring on the Figure 1 sheet. If we made our bowl from actual rings instead of segments, the ring boundaries would be the inner radius and outer radius of each ring. We need to transfer the inner and outer ring boundaries of each ring to the Figure 2 sheet to find the entire segment cutting dimensions.



Step #4 (from the Instruction Sheet)

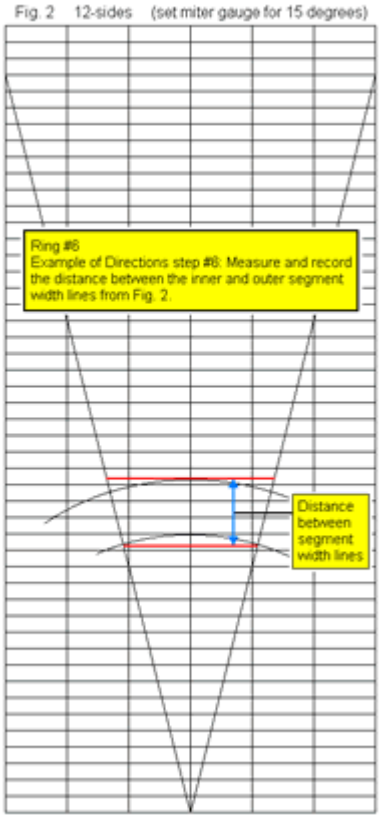
As an example, I have decided to find the segment dimensions for ring #6. A compass is used to transfer the inner and outer ring boundaries of ring #6 onto the Figure 2 sheet, drawing an arc between the angled lines.



Step #5 (from the Instruction Sheet)

The next step is to draw a horizontal line across the top of the outer boundary arc on the Figure 2 sheet. This is the outer segment width line for the segments in ring #6. Then, draw a horizontal line across the point that the inner ring boundary arc crosses the angled lines. This is the inner segment width line for the segments in ring #6.

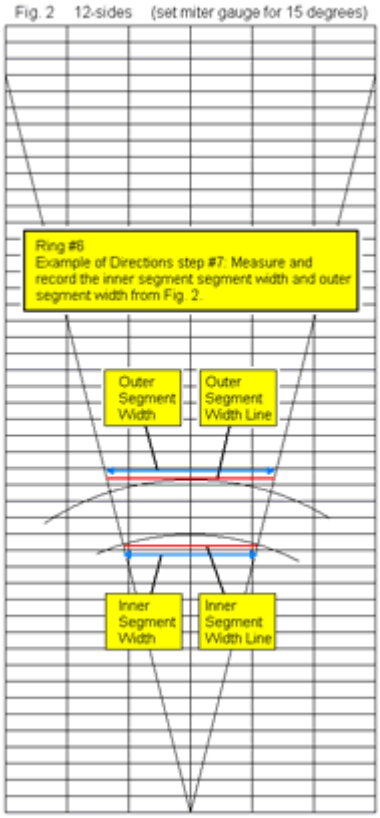
Note that the segment thickness is larger (and will always be larger) than the ring thickness. You might be able to ignore this thickness difference between segment and ring on small bowls, but on large bowls this could cause a wall thickness disaster. I designed the bowl for 1/2" wall thickness, but if I would mistakenly cut the segments to ring thickness, then I might end up with a bowl having 3/8" wall thickness, which could be chancy if the segmented ring is not perfectly round or exactly the right diameter.



Step #6 (from the Instruction Sheet)

I measured the distance between the outer and inner segment width lines for the ring #6 segment. The distance was recorded in the "Measured Board Width" column of the Segmented Bowl Design Sheet. This distance is the width of the board that the segments will be cut from.

Here's some food for thought. The board can be wider than this, i.e., the segments for most of your rings could all be cut from the same 1" x 2" nominal width board. Using the bowl design method introduced in this article, using wider boards would mean the excess segment wood would have to be removed from the interior of the bowl. This is not a problem with an open bowl but would be more difficult on a tall bowl, like the one designed here.



Step #7 (from the Instruction Sheet)

I measured the length of the inner and outer segment width lines for the ring #6 segments on the Figure 2 sheet. I recorded the lengths in the "Inner Segment Width" and "Outer Segment Width" columns of the Segmented Bowl Design Sheet.

The inner segment width measurement is only used for calculating the board length. So, if you are using nominal width boards and not cutting your boards to width, then you do not need to measure and record the "Inner Segment Width" measurement. Also, you will not need (or be able to) calculate board length.

Segmented Bowl Design

RING #	BOARD WIDTH	INNER SEGMENT WIDTH	OUTER SEGMENT WIDTH	BOARD LENGTH	NOTES
12					
11					
10					
9	13/16	3/4	1-3/16	13	12-SIDED - PURPLEHEART
8	1-3/4	25/32	1-11/16	16-3/16	12-SIDED - MAPLE
7	1-1/16	1-9/32	1-27/32	20-1/8	12-SIDED - MAPLE
6	11/16	1-1/2	1-7/8	21-5/8	12-SIDED - PURPLEHEART
5	13/16	1-7/16	1-7/8	21-1/4	12-SIDED - MAPLE
4	1	1-1/4	1-13/16	19-3/4	12-SIDED - MAPLE
3	1-3/8	29/32	1-21/32	16-3/4	12-SIDED - MAPLE
2	1-15/16	11/32	1-3/8	11-11/16	12-SIDED - MAPLE
1	3-1/4	na	na	na	SOLID DISK - PURPLEHEART

BOARD WIDTH (BW) measurement from Fig. 2, nearest 1/16".
INNER SEGMENT WIDTH (ISW) measurement from Fig. 2, nearest 1/32".
OUTER SEGMENT WIDTH (OSW) measurement from Fig. 2, nearest 1/32".
Formula for BOARD LENGTH:
Where #SEG = Number of Segments in the ring
and BLADE = Thickness of your table saw blade, usually 1/8".
BOARD LENGTH = (OSW + ISW)*(#SEG / 2) + (OSW - ISW)/2 + (BLADE*(#SEG - 1))

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6. Measure and record the distance between the inner and outer segment width lines from Fig. 2. This distance is the board width for each ring.
7. Measure and record the inner and outer segment width lines from Fig. 2.
8. Calculate and record the board length using the formula above.

Step #8 (from the Instruction Sheet)

I calculated the board length for cutting ring #6 segments using the formula from the Segmented Bowl Design sheet. The distance is recorded in the "Board Length" column of the Segmented Bowl Design sheet. Twelve segments can be cut from a board of this length, although I always add an inch or so extra to the cut board length.

On this example sheet, I have shown all the cutting dimensions for all the rings in the new bowl.

Now I have all the dimensions necessary to cut the segments for all the rings for this bowl. I'll use the dimensions to cut the boards to length and width, and then cut segments from the boards.

Kevin Neelley
http://www.turnedwood.com/

Thought for the Month.

"We do not stop playing, because we grow old.

We grow old because we stop playing."

Committee Meetings

Are on the first Thursday night of each month 6-30 sharp.

STOP PRESS.

Saturdays Demo with Jim Thallon. 2nd July.

A not to be missed, but if you wern't there on Sat you missed another extremely good Demo on Spray Painting.
Jim went to great lengths to show the pros and cons on spray painting. Even how to unblock a spray gun, how to get runs and how to fix this problem, one member expected Jim to spray a MONGREL piece of timber with different Sanding Sealers on the top and the base, and Jim worked through this item with such ease.
A lot of work from Lazy Susans, Boxes, Lidded Boxes, Bowls, Segmented items and more, so Jim's knoweledge was tested, and he excelled as always.
Thanks Jim for a job well done
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I F YOU ARE FEELING A LITTLE DOWN OR JUST PLAIN CROOK, SOMEONE IS THINKING OF YOU, YOU ARE NOT ALONE.
If you need assistance just ring a member, or you're President and we will assist where we can.

The Club wishes to thank
Mr Michael Choi. MP. Qld Parliament.
Member for Capalaba. **PH 07 3245 6950**
www.capalaba-mp.com.au
And the staff from the Office, who are always helpful.

For the printing of the Club's Newsletter and all other printing that you're Club requires