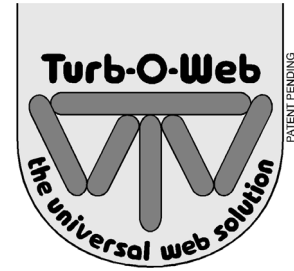


# Turb-O-Web International Pty Ltd

Australian Company

ABN 40 002 978 752

PO Box 442 Swansea, NSW 2281 Australia. Tel 02 4971 5936 Fax 02 4972 0066



Correspondence in USA may be sent c/o:-

2665 N Atlantic Ave # 400, Daytona Beach, Florida 32118

Telephone: (321) 747 3214 (888) 887 2693 (888 turboweb)

Cell : (386) 846 7404 1 888 750 6005 Fax : (630) 477 0327

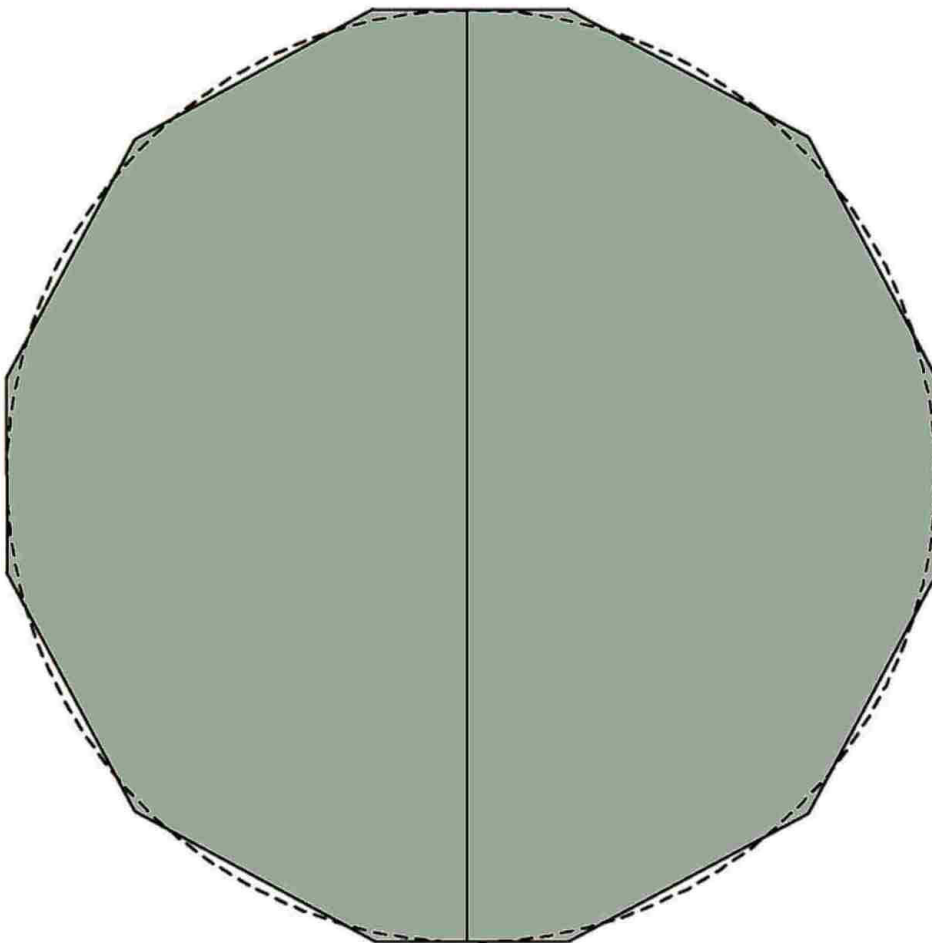
Email: [john@turb-o-web.com](mailto:john@turb-o-web.com)

Website: [www.turb-o-web.com](http://www.turb-o-web.com)

The Turb-O-Web <sup>tm</sup> system is protected in the United States by the following US patents:-  
#6,176,060 #6,249,972 #6,415,511 and #6,688,067 with further applications pending.  
The use of the Turb-O-Web <sup>tm</sup> system requires a license from Turb-O-Web International Pty Limited.

## Turb-O-Web

### 5 sided cut



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## Derivation of Optimum 5 segmented Turb-O-Web™ end shape.

### Calculations:

Length R= Radius= 1.75”

Angle A= 11.863 degrees

Angle B= 4.766 degrees

Angle C= 11.738 degrees

Find R1 (Long Length):

$\cos c = R / R1$

Using R=1.75”

$R1 = 1.75 / \cos 11.738$

$= 1.7874$  “

Find RS (Short Length):

$\cos (a+b) = RS / R1$

Using R1= 1.7874”

$RS = 1.7874 \times \cos 16.629 (11.863+4.766)$

$= 1.7126$ ”

Check total angles:

2x 11.739 degrees= 23.478 degrees

4x 11.863 degrees= 47.452 degrees

4x 4.766 degrees= 19.064 degrees

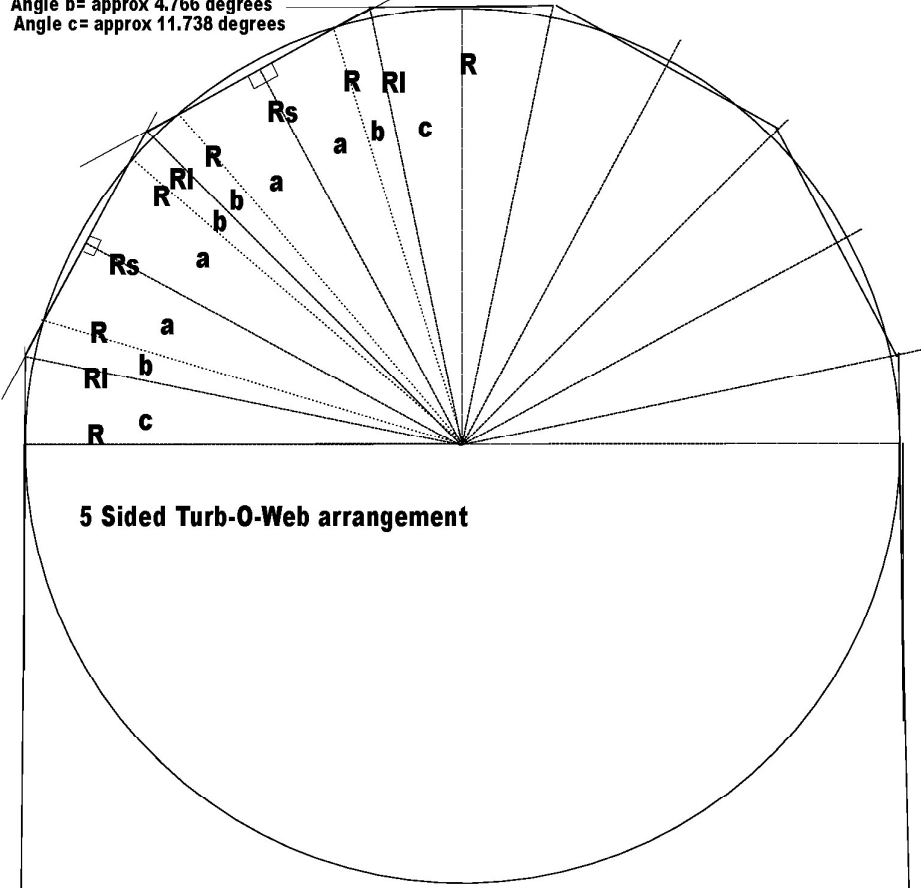
Total 89.994 degrees

Variation Out:  $R1 - R = 1.7874 - 1.75 = 0.0374$ ” (0.5984 of 1/16<sup>th</sup>)

Variation In :  $R - RS = 1.75 - 1.7126 = 0.0374$ ” (0.5984 of 1/16<sup>th</sup> “)

**R = radius = 1/2 board width=45mm**  
**RI = long length radial dimension=45.961mm**  
**Rs = Short length radial dimension=44.039**  
 Variation is < +/- 0.7/16"  
 Angle a= approx 11.863 degrees  
 Angle b= approx 4.766 degrees  
 Angle c= approx 11.738 degrees

**$R=1.75''$ ,  $RI=1.7874''$**   
 **$Rs=1.7126''$**



*Variations from true semi-circle*  
*Variation out:*  
 **$RI-R=1.7874-1.75=0.0374''$**   
*Variation in:*  
 **$R-Rs=1.75-1.7126=0.0374''$**

*Variation in and out from true semi-circle:*  
  
 **$\pm < 0.7/16ths''$**