



### **File Properties**

Filename: C:\Roys documents\Foilmaker\Constructed\Firecrest\_v2\_30\_constructed

### **Kite Parameters**

Shape: Bielliptic  
 Area: 3.0 square metres  
 Aspect Ratio: 4.15  
 Wingspan: 353.1 cm  
 Canopy Shape: Hyperbolic  
 Canopy Curvature: 20.0 %  
 Canopy Eccentricity: 20.0 %  
 Vent type: Gauzed  
 Vent depth variation: 0% Linear, 100% Proportional  
 Max chord: 94.0 cm  
 Min chord: 33.2 cm  
 Front offset: 170 mm  
 Rear offset: 438 mm  
 Number of cells: 22  
 Cell spacing: 50% Linear, 50% Proportional  
 Single seam allowance: 0 mm  
 Double seam allowance: 20 mm

### **Centre Profile**

Name: Odyssey8  
 Chord: 94.0 cm  
 Aspect Ratio: 18.0%

### **Tip Profile**

Name: Odyssey8  
 Chord: 33.2 cm  
 Aspect Ratio: 15.0%

Profile variation: Linear

### **Bridle**

Bridled as 4-line kite.  
 Primary bridle attached to every second rib  
 Each secondary bridle line connected to one primary bridle  
 Primary bridle towpoint at tip: X = 23 %, Y = 100 %  
 Primary bridle towpoint at center: X = 22 %, Y = 100 %

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**Primary Bridles (Two of Each Bridle Required)**

<b>Rib</b>	<b>A-Line (cm)</b>	<b>B-Line (cm)</b>	<b>C-Line (cm)</b>	<b>D-Line (cm)</b>
1	33.4	33.5	35.8	26.6
3	69.2	69.7	74.9	55.0
5	88.3	88.9	95.7	70.2
7	94.6	95.3	102.7	75.2
9	94.6	95.4	102.8	75.2
11	94.6	95.5	102.9	75.2

Total primary bridle line required: 38 metres

**Split Secondary Bridle (Two Required)**

<b>Rib</b>	<b>Front Line (cm)</b>	<b>Rear Line (cm)</b>
1	145.4	99.8
3	125.9	85.5
5	117.6	80.5
7	120.1	84.1
9	129.7	94.4
11	139.6	106.4

Total secondary bridle line required: 28 metres