



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)

| Rib | A-Line (cm) | B-Line (cm) | C-Line (cm) | D-Line (cm) |
|------------|--------------------|--------------------|--------------------|--------------------|
| 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)

| Rib | Front Line (cm) | Rear Line (cm) |
|------------|------------------------|-----------------------|
| 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