



File Properties

Filename: C:\Roys documents\Foilmaker\Firecrest_v2_20a.kte

Kite Parameters

Shape: Bielliptic
Area: 2.0 square metres
Aspect Ratio: 4.50
Wingspan: 299.8 cm
Canopy Shape: Hyperbolic
Canopy Curvature: 20.0 %
Canopy Eccentricity: 20.0 %
Vent type: Gauzed
Vent depth variation: 0% Linear, 100% Proportional
Max chord: 76.1 cm
Min chord: 15.6 cm
Front offset: 193 mm
Rear offset: 412 mm
Number of cells: 24
Cell spacing: 75% Linear, 25% Proportional
Single seam allowance: 0 mm
Double seam allowance: 30 mm

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 = 23 %, Y = 100 %

Centre Profile

Name: Odyssey10
Chord: 76.1 cm
Aspect Ratio: 17.0%

Tip Profile

Name: Odyssey10
Chord: 15.7 cm
Aspect Ratio: 12.5%

Profile variation: Linear

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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	15.8	16.0	17.5	12.6
3	50.2	50.0	54.9	39.4
5	68.5	67.8	74.4	53.7
7	76.8	75.9	83.2	60.1
9	77.6	77.1	84.9	60.9
11	77.6	77.1	84.9	60.9
13	77.6	77.1	84.9	60.9

Total primary bridle line required: 35 metres

Half-Cross Secondary Bridle (Two Required)

Rib	Front Line (cm)	Rear Line (cm)
1	148.3	106.1
3	124.4	86.4
5	112.5	78.0
7	109.7	77.1
9	114.4 (160.3)	82.5
11	122.7 (146.2)	90.6
13	133.2 (133.2)	100.1

Total secondary bridle line required: 31 metres