



File Properties

Filename: C:\Roys documents\Foilmaker\Firecrest_v2_40b_constructed.kte

Kite Parameters

Shape: Bielliptic
Area: 4.0 square metres
Aspect Ratio: 4.49
Wingspan: 423.5 cm
Canopy Shape: Hyperbolic
Canopy Curvature: 20.0 %
Canopy Eccentricity: 20.0 %
Vent type: Gauzed
Vent depth variation: 0% Linear, 100% Proportional
Max chord: 107.7 cm
Min chord: 22.7 cm
Front offset: 274 mm
Rear offset: 576 mm
Number of cells: 28
Cell spacing: 75% Linear, 25% Proportional
Single seam allowance: 0 mm
Double seam allowance: 30 mm

Centre Profile

Name: Odyssey10
Chord: 107.7 cm
Aspect Ratio: 17.0%

Tip Profile

Name: Odyssey10
Chord: 22.7 cm
Aspect Ratio: 12.5%

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 = 23 %, 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	22.9	23.1	25.3	18.2
3	66.0	65.9	72.3	51.9
5	91.0	90.2	99.0	71.3
7	105.2	104.0	114.1	82.4
9	109.8	108.5	119.0	86.0
11	109.8	109.1	120.2	86.2
13	109.8	109.1	120.2	86.2
15	109.8	109.1	120.2	86.2

Total primary bridle line required: 57 metres

Half-Cross Secondary Bridle (Two Required)

Rib	Front Line (cm)	Rear Line (cm)
1	210.1	150.4
3	181.4	127.2
5	164.9	115.1
7	156.6	109.7
9	157.4	111.8
11	164.3 (220.5)	119.1
13	174.7 (203.4)	129.0
15	187.9 (187.9)	141.0

Total secondary bridle line required: 49 metres