

Mainsail: 8000707 Sonny-1 Compact 33 fullbattmain.des

Design Info =====

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000707 Sonny C

Initial Design Date: 22/7/2024
Boat:
Compact 33
Client:

Comments:

Design Data =====

Main

Measurements

Luff geodesic: 38.115Ft
Leech geodesic: 40.349Ft
Foot geodesic: 13.860Ft
Head geodesic: 0.377Ft
Upper width (MUW): 2.541Ft
Three-quarter width (MTW): 4.690Ft
Half width (MHW): 8.496Ft
Quarter width (MQW): 11.521Ft
Foot median: 39.067Ft
ORC Mainsail area: 303.266Ft?
Surface area: 311.292Ft?
Clew height: 0.328Ft
Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	4.001Ft	0.918Ft	71.406?	30.489Ft	32.159Ft	Full
60.000%	7.254Ft	1.211Ft	71.406?	22.864Ft	24.119Ft	Full
40.000%	9.944Ft	1.090Ft	71.406?	15.242Ft	16.080Ft	Full
20.000%	12.091Ft	0.630Ft	71.406?	7.620Ft	8.040Ft	Full

Reefing Points

1, Luff: 4.649Ft ; Leech: 4.828Ft ; Offset: 0.000Ft ; Number Eyelets: 3
2, Luff: 9.716Ft ; Leech: 10.085Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

1, Luff: 12.574Ft ; Leech: 12.776Ft ;
2, Luff: 25.151Ft ; Leech: 26.090Ft ;

Luff Slides

1, Position: 2.911Ft
2, Position: 5.777Ft
3, Position: 10.832Ft
4, Position: 13.201Ft
5, Position: 17.782Ft
6, Position: 20.323Ft
7, Position: 25.406Ft
8, Position: 27.947Ft
9, Position: 33.031Ft
10, Position: 35.573Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.691Ft])	Before BSeam
38.114Ft,	0.000Ft	100% (38.115Ft) :	0.000Ft
33.364Ft,	-0.088Ft	90% (34.304Ft) :	0.150Ft
28.585Ft,	-0.151Ft	80% (30.492Ft) :	0.281Ft
23.795Ft,	-0.178Ft	70% (26.681Ft) :	0.372Ft
19.056Ft,	-0.181Ft	60% (22.869Ft) :	0.425Ft
14.202Ft,	-0.168Ft	50% (19.058Ft) :	0.440Ft
9.528Ft,	-0.134Ft	40% (15.246Ft) :	0.424Ft
4.750Ft,	-0.076Ft	30% (11.434Ft) :	0.366Ft
0.000Ft,	0.000Ft	20% (7.623Ft) :	0.269Ft
		10% (3.812Ft) :	0.135Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances

Zone: 1	Split	Radial	Cross
	0.082Ft	0.082Ft	0.082Ft

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000Ft	0.000Ft	0.000Ft

Total Seam Lengths (Ft)

Horizontal	83.28
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	311.08	1,2,3,4,5 6,7,8,9,10 11

