

Mainsail: 8001019 Simon fullbattmain.des

Design Info
=====

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001019 Simon m

Initial Design Date: 5/11/2024
Boat:

Comments:

Client:

Design Data
=====

Main

Measurements

Luff geodesic: 36.791Ft
 Leech geodesic: 38.325Ft
 Foot geodesic: 11.391Ft
 Head geodesic: 0.377Ft
 Upper width (MUW): 2.233Ft
 Three-quarter width (MTW): 4.030Ft
 Half width (MHW): 7.031Ft
 Quarter width (MQW): 9.456Ft
 Foot median: 37.467Ft
 ORC Mainsail area: 242.944Ft?
 Surface area: 248.144Ft?
 Clew height: 0.328Ft
 Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	3.483Ft	0.663Ft	74.766?	29.417Ft	30.571Ft	Full
60.000%	6.031Ft	0.862Ft	74.766?	22.060Ft	22.928Ft	Full
40.000%	8.154Ft	0.759Ft	74.766?	14.706Ft	15.286Ft	Full
20.000%	9.914Ft	0.438Ft	74.766?	7.352Ft	7.643Ft	Full

Reefing Points

- 1, Luff: 4.000Ft ; Leech: 4.112Ft ; Offset: 0.000Ft ; Number Eyelets: 2
- 2, Luff: 8.420Ft ; Leech: 8.645Ft ; Offset: 0.000Ft ; Number Eyelets: 2
- 3, Luff: 13.241Ft ; Leech: 13.602Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 12.138Ft ; Leech: 12.240Ft ;
- 2, Luff: 24.278Ft ; Leech: 24.871Ft ;

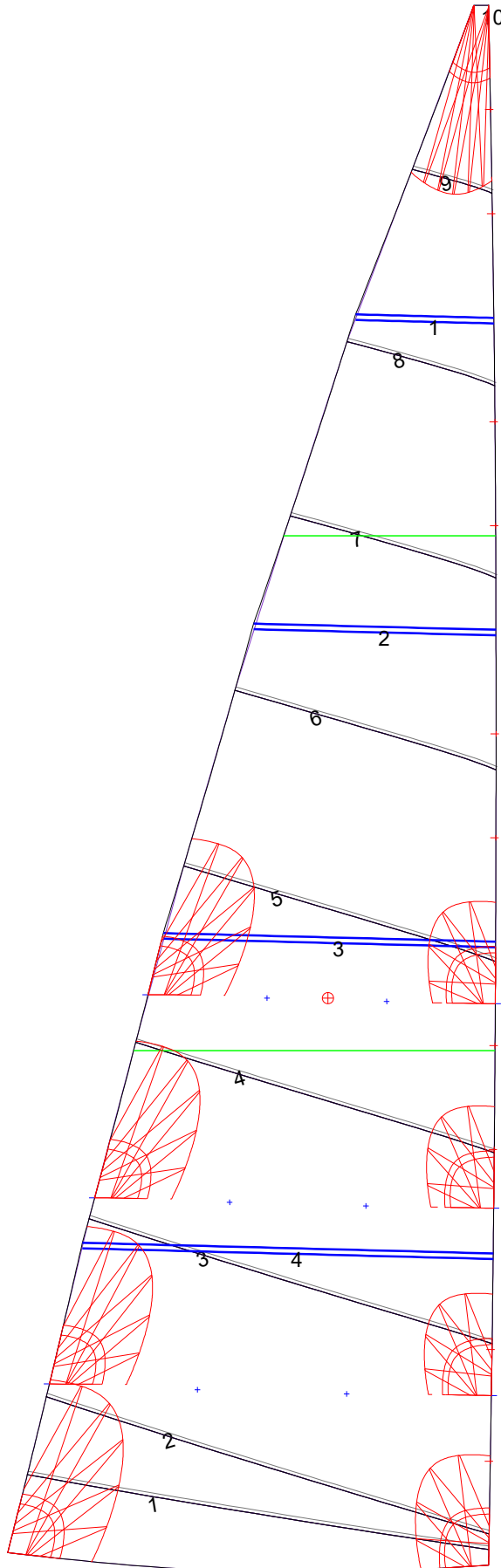
Luff Slides

- 1, Position: 2.451Ft
- 2, Position: 5.083Ft
- 3, Position: 9.803Ft
- 4, Position: 12.254Ft
- 5, Position: 17.157Ft
- 6, Position: 19.609Ft
- 7, Position: 24.512Ft
- 8, Position: 26.964Ft
- 9, Position: 31.875Ft
- 10, Position: 34.333Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.567Ft])	Before BSeam
36.790Ft,	0.000Ft	100% (36.791Ft) :	0.000Ft
32.206Ft,	-0.085Ft	90% (33.113Ft) :	0.127Ft
27.593Ft,	-0.146Ft	80% (29.433Ft) :	0.238Ft
22.968Ft,	-0.172Ft	70% (25.754Ft) :	0.313Ft
18.395Ft,	-0.175Ft	60% (22.075Ft) :	0.354Ft
13.708Ft,	-0.162Ft	50% (18.396Ft) :	0.363Ft
9.198Ft,	-0.129Ft	40% (14.716Ft) :	0.347Ft
4.585Ft,	-0.073Ft	30% (11.037Ft) :	0.299Ft
0.000Ft,	0.000Ft	20% (7.358Ft) :	0.221Ft
		10% (3.679Ft) :	0.113Ft
		0% (0.000Ft) :	0.000Ft

Mainsail: 8001019 Simon fullbattmain.des



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	67.38
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	248.01	1,2,3,4,5 6,7,8,9,10