

Mainsail: 8001019 Simon fullbattmainV2.des

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

Initial Design Date: 7/11/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 36.135Ft
 Leech geodesic: 37.651Ft
 Foot geodesic: 11.217Ft
 Head geodesic: 0.377Ft
 Upper width (MUW): 2.210Ft
 Three-quarter width (MTW): 3.985Ft
 Half width (MHW): 6.943Ft
 Quarter width (MQW): 9.326Ft
 Foot median: 36.581Ft
 ORC Mainsail area: 235.450Ft?
 Surface area: 238.948Ft?
 Clew height: 0.328Ft
 Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	3.448Ft	0.663Ft	74.760?	28.890Ft	30.033Ft	Full
60.000%	5.961Ft	0.862Ft	74.760?	21.664Ft	22.525Ft	Full
40.000%	3.773Ft	0.759Ft	74.760?	14.439Ft	15.017Ft	
20.000%	3.773Ft	0.438Ft	74.760?	7.215Ft	7.508Ft	

Reefing Points

- 1, Luff: 3.929Ft ; Leech: 4.039Ft ; Offset: 0.000Ft ; Number Eyelets: 2
- 2, Luff: 8.270Ft ; Leech: 8.490Ft ; Offset: 0.000Ft ; Number Eyelets: 2
- 3, Luff: 13.005Ft ; Leech: 13.359Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 11.921Ft ; Leech: 12.021Ft ;
- 2, Luff: 23.845Ft ; Leech: 24.427Ft ;

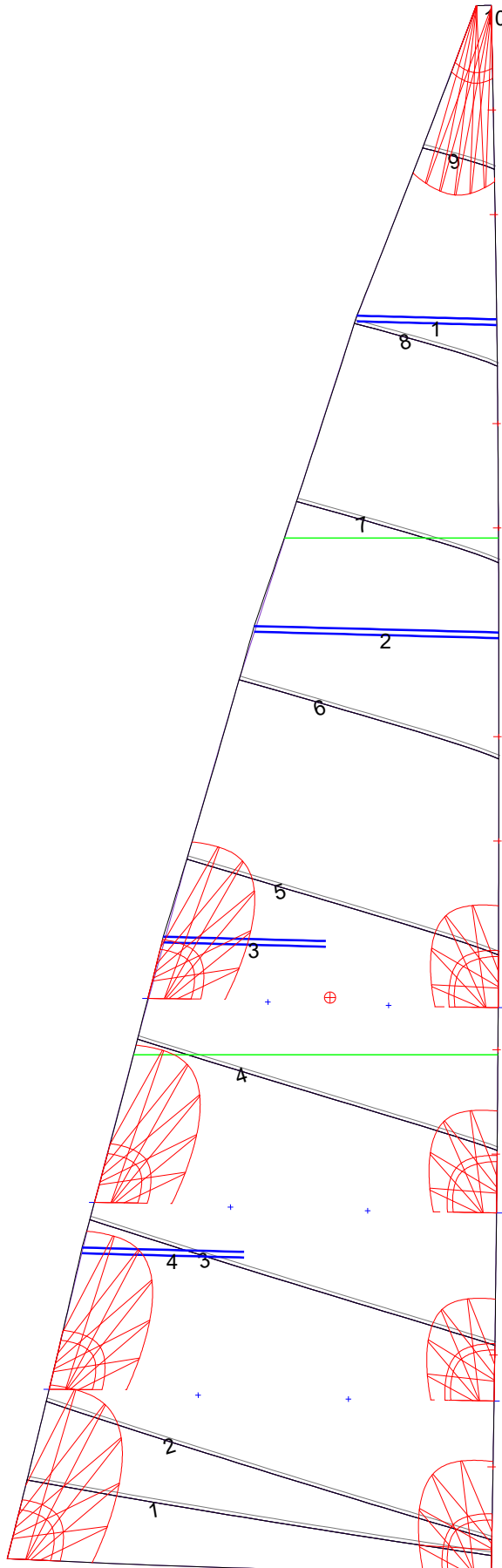
Luff Slides

- 1, Position: 2.407Ft
- 2, Position: 4.992Ft
- 3, Position: 9.628Ft
- 4, Position: 12.036Ft
- 5, Position: 16.851Ft
- 6, Position: 19.259Ft
- 7, Position: 24.075Ft
- 8, Position: 26.483Ft
- 9, Position: 31.306Ft
- 10, Position: 33.721Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.558Ft])	Before BSeam
36.134Ft,	0.000Ft	100% (36.135Ft) :	0.000Ft
31.631Ft,	-0.085Ft	90% (32.522Ft) :	0.127Ft
27.100Ft,	-0.146Ft	80% (28.908Ft) :	0.237Ft
22.559Ft,	-0.172Ft	70% (25.295Ft) :	0.312Ft
18.067Ft,	-0.175Ft	60% (21.681Ft) :	0.352Ft
13.464Ft,	-0.162Ft	50% (18.068Ft) :	0.361Ft
9.033Ft,	-0.129Ft	40% (14.454Ft) :	0.346Ft
4.503Ft,	-0.073Ft	30% (10.840Ft) :	0.298Ft
0.000Ft,	0.000Ft	20% (7.227Ft) :	0.221Ft
		10% (3.614Ft) :	0.115Ft
		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	65.74
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	238.86	1,2,3,4,5 6,7,8,9,10