

Mainsail: 7000323 John mainsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000323 John\70003

Initial Design Date: 19/4/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 37.346Ft
 Leech geodesic: 38.454Ft
 Foot geodesic: 10.292Ft
 Head geodesic: 0.377Ft
 Upper width (MUW): 2.162Ft
 Three-quarter width (MTW): 3.849Ft
 Half width (MHW): 6.581Ft
 Quarter width (MQW): 8.646Ft
 Foot median: 37.713Ft
 ORC Mainsail area: 228.123Ft?
 Surface area: 231.144Ft?
 Clew height: 1.076Ft
 Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
81.566%	3.141Ft	0.704Ft	76.535?	30.446Ft	31.292Ft	Full
61.483%	5.534Ft	0.914Ft	76.535?	22.949Ft	23.588Ft	Full
40.774%	7.488Ft	0.806Ft	76.535?	15.220Ft	15.643Ft	Full
20.383%	9.003Ft	0.466Ft	76.535?	7.611Ft	7.820Ft	Full

Reefing Points

1, Luff: 5.600Ft ; Leech: 5.710Ft ; Offset: 0.000Ft ; Number Eyelets: 2
 2, Luff: 11.201Ft ; Leech: 11.423Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

1, Luff: 12.321Ft ; Leech: 12.357Ft ;
 2, Luff: 24.644Ft ; Leech: 25.060Ft ;

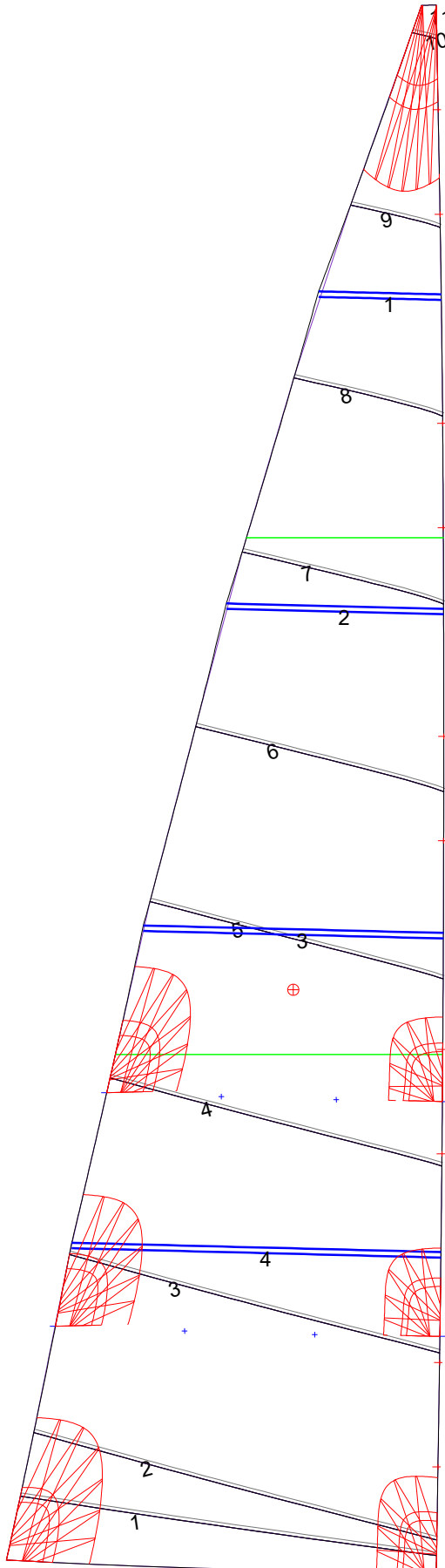
Luff Slides

1, Position: 2.489Ft
 2, Position: 4.979Ft
 3, Position: 9.956Ft
 4, Position: 12.444Ft
 5, Position: 17.419Ft
 6, Position: 19.908Ft
 7, Position: 24.884Ft
 8, Position: 27.373Ft
 9, Position: 32.356Ft
 10, Position: 34.851Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.513Ft])	Before BSeam
37.345Ft,	0.000Ft	100% (37.346Ft) :	0.000Ft -0.000Ft
32.691Ft,	-0.086Ft	90% (33.612Ft) :	0.049Ft 0.129Ft
28.008Ft,	-0.148Ft	80% (29.877Ft) :	0.092Ft 0.248Ft
23.314Ft,	-0.174Ft	70% (26.143Ft) :	0.116Ft 0.335Ft
18.672Ft,	-0.177Ft	60% (22.408Ft) :	0.124Ft 0.380Ft
13.915Ft,	-0.164Ft	50% (18.673Ft) :	0.123Ft 0.384Ft
9.336Ft,	-0.131Ft	40% (14.938Ft) :	0.115Ft 0.351Ft
4.654Ft,	-0.075Ft	30% (11.204Ft) :	0.099Ft 0.287Ft
0.000Ft,	0.000Ft	20% (7.469Ft) :	0.074Ft 0.201Ft
		10% (3.735Ft) :	0.039Ft 0.099Ft
		0% (0.000Ft) :	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	64.03
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	231.19	1,2,3,4,5 6,7,8,9,10 11