

Mainsail: 7000416 John MainsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000416 John\70004

Initial Design Date: 26/4/2023
Boat:

Comments:
tack angle 89 degree

Client:

Design Data
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Main

Measurements

Luff geodesic: 51.480Ft
Leech geodesic: 53.707Ft
Foot geodesic: 16.335Ft
Head geodesic: 0.443Ft
Upper width (MUW): 3.190Ft
Three-quarter width (MTW): 5.822Ft
Half width (MHW): 10.118Ft
Quarter width (MQW): 13.357Ft
Foot median: 52.570Ft
ORC Mainsail area: 485.381Ft?
Surface area: 494.898Ft?
Clew height: -0.041Ft
Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.347%	4.500Ft	0.762Ft	73.747?	42.370Ft	44.108Ft	Full
62.949%	8.250Ft	1.045Ft	73.747?	32.390Ft	33.718Ft	Full
42.586%	11.250Ft	0.778Ft	73.747?	21.915Ft	22.811Ft	Full
21.780%	13.747Ft	0.290Ft	73.747?	11.215Ft	11.666Ft	Full

Reefing Points

1, Luff: 7.720Ft ; Leech: 8.031Ft ; Offset: 0.000Ft ; Number Eyelets: 3
2, Luff: 15.440Ft ; Leech: 16.018Ft ; Offset: 0.000Ft ; Number Eyelets: 3
3, Luff: 23.159Ft ; Leech: 23.978Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

1, Luff: 12.867Ft ; Leech: 13.122Ft ;
2, Luff: 25.732Ft ; Leech: 26.473Ft ;
3, Luff: 38.599Ft ; Leech: 39.927Ft ;

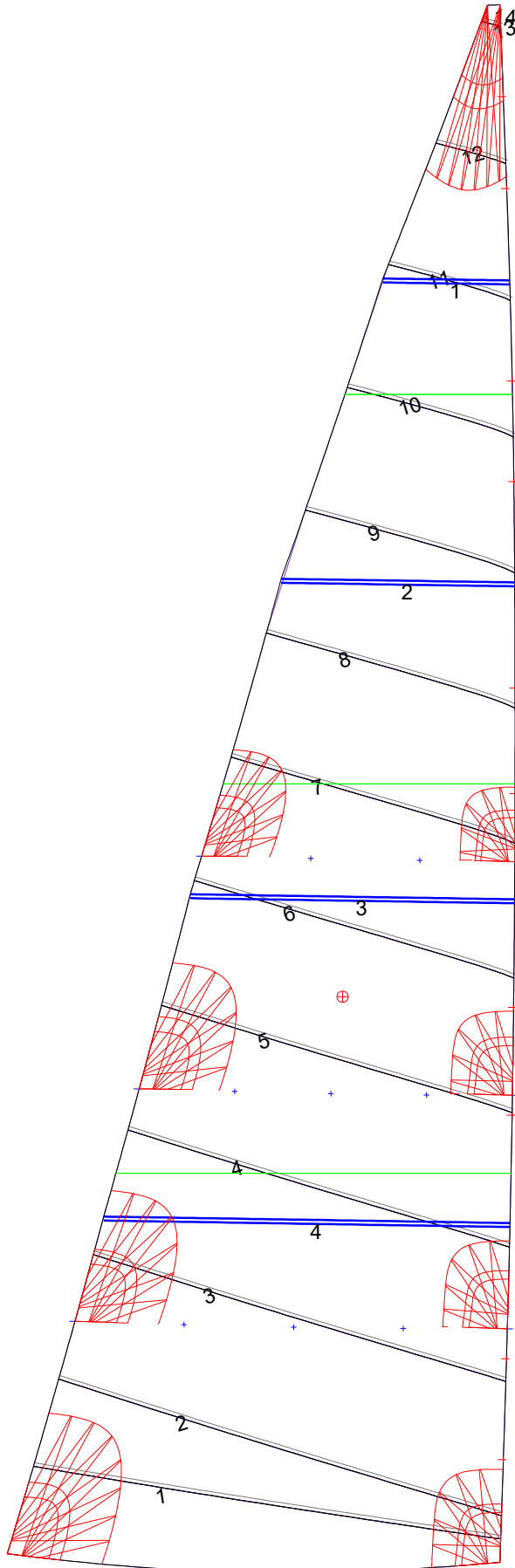
Luff Slides

1, Position: 3.399Ft
2, Position: 6.736Ft
3, Position: 14.782Ft
4, Position: 18.349Ft
5, Position: 25.407Ft
6, Position: 28.898Ft
7, Position: 35.717Ft
8, Position: 39.043Ft
9, Position: 45.407Ft
10, Position: 48.443Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.813Ft])	Before BSeam
51.471Ft,	0.000Ft	100% (51.479Ft) :	0.000Ft
45.057Ft,	-0.243Ft	90% (46.334Ft) :	0.136Ft
38.604Ft,	-0.417Ft	80% (41.184Ft) :	0.256Ft
32.134Ft,	-0.491Ft	70% (36.037Ft) :	0.325Ft
25.735Ft,	-0.500Ft	60% (30.888Ft) :	0.350Ft
19.179Ft,	-0.463Ft	50% (25.740Ft) :	0.349Ft
12.868Ft,	-0.370Ft	40% (20.591Ft) :	0.328Ft
6.414Ft,	-0.210Ft	30% (15.443Ft) :	0.285Ft
0.000Ft,	0.000Ft	20% (10.295Ft) :	0.214Ft
		10% (5.148Ft) :	0.115Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.125Ft	0.125Ft	0.125Ft

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000Ft	0.000Ft	0.000Ft

Total Seam Lengths (Ft)

Horizontal	124.20
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	495.53	1,2,3,4,5 6,7,8,9,10 11,12,13,14