

Mainsail: 7000515 David Mainsail.des

Design Info
=====

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000515 David\7000515

Initial Design Date: 7/6/2023
Boat:

Comments:

Client:

Design Data
=====

Main

Measurements

Luff geodesic: 13.800m
 Leech geodesic: 14.441m
 Foot geodesic: 4.514m
 Head geodesic: 0.135m
 Upper width (MUW): 0.916m
 Three-quarter width (MTW): 1.652m
 Half width (MHW): 2.852m
 Quarter width (MQW): 3.768m
 Foot median: 14.109m
 ORC Mainsail area: 36.597m?
 Surface area: 37.455m?
 Clew height: -0.447m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.330m	0.310m	73.360?	11.311m	11.805m	Full
62.000%	2.378m	0.402m	73.360?	8.551m	8.926m	Full
41.500%	3.233m	0.355m	73.360?	5.723m	5.974m	Full
21.000%	3.912m	0.205m	73.360?	2.895m	3.023m	Full

Reefing Points

1, Luff: 2.070m ; Leech: 2.135m ; Offset: 0.000m ; Number Eyelets: 0
 2, Luff: 4.139m ; Leech: 4.270m ; Offset: 0.000m ; Number Eyelets: 0
 3, Luff: 6.209m ; Leech: 6.408m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 3.449m ; Leech: 3.490m ;
 2, Luff: 6.899m ; Leech: 7.076m ;
 3, Luff: 10.349m ; Leech: 10.699m ;

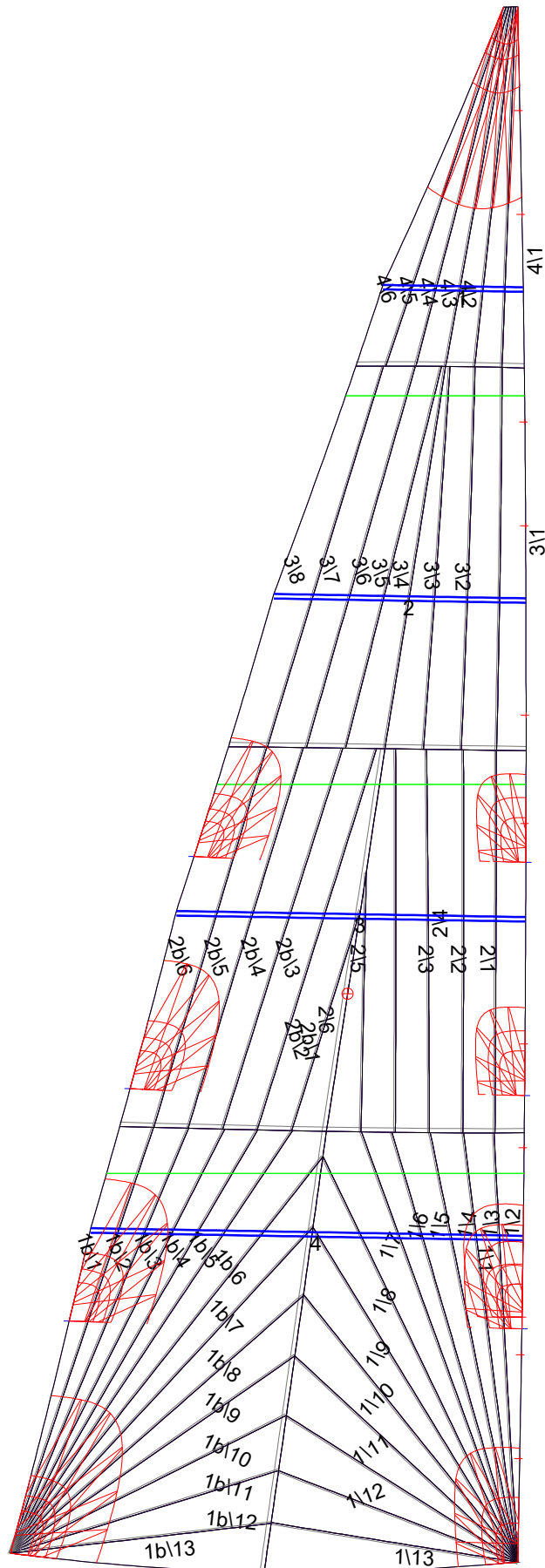
Luff Slides

1, Position: 0.919m
 2, Position: 1.839m
 3, Position: 3.678m
 4, Position: 4.597m
 5, Position: 6.552m
 6, Position: 7.514m
 7, Position: 9.195m
 8, Position: 10.115m
 9, Position: 11.957m
 10, Position: 12.878m

Luff Curve

		Fanned Luff (@ 5.00% [0.225m])	Before BSeam
13.799m,	0.000m	100% (13.800m) :	0.000m
12.080m,	-0.035m	90% (12.420m) :	0.052m
10.350m,	-0.061m	80% (11.040m) :	0.101m
8.615m,	-0.071m	70% (9.660m) :	0.137m
6.900m,	-0.073m	60% (8.280m) :	0.155m
5.142m,	-0.067m	50% (6.900m) :	0.156m
3.450m,	-0.054m	40% (5.520m) :	0.142m
1.720m,	-0.031m	30% (4.140m) :	0.116m
0.000m,	0.000m	20% (2.760m) :	0.081m
		10% (1.380m) :	0.040m
		0% (0.000m) :	0.000m

Mainsail: 7000515 David Mainsail.des



Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.038m
Zone: 1/b	0.038m	0.015m	0.038m
Zone: 2/a	0.038m	0.015m	0.038m
Zone: 2/b	0.038m	0.015m	0.038m
Zone: 3	0.038m	0.015m	0.038m
Zone: 4	0.038m	0.015m	0.038m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	8.07
Radial/Vertical	157.50
Bi-Radial Split	7.73

Materials

Material	Area (m ²)	Panels
Material 1	37.52	1\1, 1\2, 1\3, 1\4, 1\5 1\6, 1\7, 1\8, 1\9, 1\10 1\11, 1\12, 1\13, 1b\1, 1b\2 1b\3, 1b\4, 1b\5, 1b\6, 1b\7 1b\8, 1b\9, 1b\10, 1b\11, 1b\12 1b\13, 2\1, 2\2, 2\3, 2\4 2\5, 2\6, 2b\1, 2b\2, 2b\3 2b\4, 2b\5, 2b\6, 3\1, 3\2 3\3, 3\4, 3\5, 3\6, 3\7 3\8, 4\1, 4\2, 4\3, 4\4 4\5, 4\6