

# Mainsail: 7000806 Brian Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7000806 Brian\7000

Initial Design Date: 14/9/2023  
Boat:

Comments:

Client:

Design Data  
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## Main

### Measurements

Luff geodesic: 11.390m  
 Leech geodesic: 12.070m  
 Foot geodesic: 4.250m  
 Head geodesic: 0.115m  
 Upper width (MUW): 0.805m  
 Three-quarter width (MTW): 1.481m  
 Half width (MHW): 2.621m  
 Quarter width (MQW): 3.539m  
 Foot median: 11.697m  
 ORC Mainsail area: 27.979m?  
 Surface area: 28.787m?  
 Clew height: 0.100m  
 Mast rake: 0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.286m	0.254m	71.361?	9.107m	9.609m	Full
60.000%	2.254m	0.338m	71.361?	6.830m	7.207m	Full
40.000%	3.054m	0.298m	71.361?	4.553m	4.805m	Full
20.000%	3.712m	0.172m	71.361?	2.276m	2.402m	Full

### Reefing Points

1, Luff: 1.537m ; Leech: 1.608m ; Offset: 0.000m ; Number Eyelets: 3  
 2, Luff: 3.074m ; Leech: 3.210m ; Offset: 0.000m ; Number Eyelets: 3

### Draft Stripes

1, Luff: 2.847m ; Leech: 2.887m ;  
 2, Luff: 5.694m ; Leech: 5.883m ;  
 3, Luff: 8.541m ; Leech: 8.913m ;

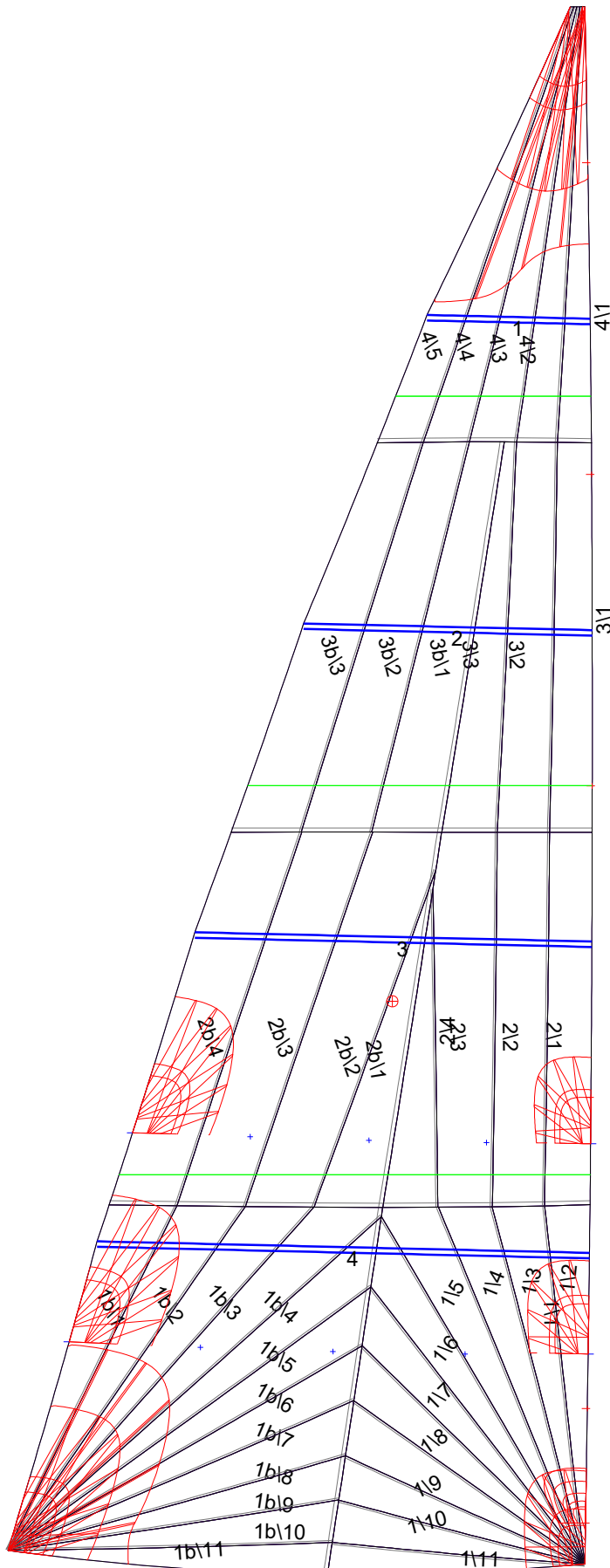
### Luff Slides

1, Position: 1.138m  
 2, Position: 3.414m  
 3, Position: 5.691m  
 4, Position: 7.968m  
 5, Position: 10.249m

### Luff Curve

		Fanned Luff (@ 5.00% [0.211m])	Before BSeam
11.390m,	0.000m	100% (11.390m) :	0.000m
9.970m,	-0.026m	90% (10.251m) :	0.046m
8.542m,	-0.045m	80% (9.112m) :	0.089m
7.111m,	-0.053m	70% (7.973m) :	0.119m
5.695m,	-0.054m	60% (6.834m) :	0.137m
4.244m,	-0.050m	50% (5.695m) :	0.143m
2.847m,	-0.040m	40% (4.556m) :	0.140m
1.419m,	-0.023m	30% (3.417m) :	0.123m
0.000m,	0.000m	20% (2.278m) :	0.093m
		10% (1.139m) :	0.050m
		0% (0.000m) :	0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.030m	0.015m	0.030m
Zone: 1/b	0.030m	0.015m	0.030m
Zone: 2/a	0.030m	0.015m	0.030m
Zone: 2/b	0.030m	0.015m	0.030m
Zone: 3/a	0.030m	0.015m	0.030m
Zone: 3/b	0.030m	0.015m	0.030m
Zone: 4	0.030m	0.015m	0.030m

## Edge Excesses

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

## Total Seam Lengths (m)

Horizontal	8.11
Radial/Vertical	94.99
Bi-Radial Split	8.71

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	28.81	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1b\1,1b\2,1b\3,1b\4 1b\5,1b\6,1b\7,1b\8,1b\9 1b\10,1b\11,2\1,2\2,2\3 2\4,2b\1,2b\2,2b\3,2b\4 3\1,3\2,3\3,3b\1,3b\2 3b\3,4\1,4\2,4\3,4\4 4\5