

Mainsail: 7000521 Christian Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000521 Christian\70

Initial Design Date: 30/5/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	9.801m
Leech geodesic:	10.225m
Foot geodesic:	3.267m
Head geodesic:	0.115m
Upper width (MUW):	0.627m
Three-quarter width (MTW):	1.139m
Half width (MHW):	2.019m
Quarter width (MQW):	2.702m
Foot median:	10.008m
ORC Mainsail area:	18.502m?
Surface area:	18.925m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.980m	0.163m	72.065?	7.859m	8.155m	Full
60.000%	1.734m	0.229m	72.065?	5.919m	6.116m	Full
40.000%	2.339m	0.202m	72.065?	3.980m	4.078m	Full
20.000%	2.834m	0.117m	72.065?	2.040m	2.039m	Full

Reefing Points

1, Luff: 1.470m ; Leech: 1.518m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 2.940m ; Leech: 3.035m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 3.234m ; Leech: 3.261m ;
2, Luff: 6.469m ; Leech: 6.648m ;

Luff Slides

1, Position: 0.679m
2, Position: 1.357m
3, Position: 2.683m
4, Position: 3.330m
5, Position: 4.624m
6, Position: 5.270m
7, Position: 6.564m
8, Position: 7.211m
9, Position: 8.506m
10, Position: 9.153m

Luff Curve

		Fanned Luff (@ 5.00% [0.163m])	Before BSeam
9.801m,	0.000m	100% (9.801m) :	0.000m
8.579m,	-0.023m	90% (8.821m) :	0.037m
7.350m,	-0.039m	80% (7.841m) :	0.071m
6.119m,	-0.046m	70% (6.861m) :	0.099m
4.900m,	-0.047m	60% (5.881m) :	0.113m
3.652m,	-0.043m	50% (4.901m) :	0.115m
2.450m,	-0.034m	40% (3.920m) :	0.106m
1.221m,	-0.020m	30% (2.940m) :	0.086m
0.000m,	0.000m	20% (1.960m) :	0.060m
		10% (0.980m) :	0.030m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.025m	0.025m	0.025m

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

Total Seam Lengths (m)

Horizontal	17.37
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	18.92	1,2,3,4,5 6,7,8,9

