

Mainsail: 7000108 Allen-1 B351 RFMN.des

Design Info

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Initial Design Date: 4/3/2023
Boat:

Client:

Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7000108 Allen\7000

Comments:

Design Data

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Main

Measurements

Luff geodesic:	36.837Ft
Leech geodesic:	38.452Ft
Foot geodesic:	13.832Ft
Head geodesic:	0.112Ft
Upper width (MUW):	1.592Ft
Three-quarter width (MTW):	3.164Ft
Half width (MHW):	6.610Ft
Quarter width (MQW):	10.212Ft
Foot median:	37.160Ft
ORC Mainsail area:	248.046Ft ²
Surface area:	246.240Ft ²
Clew height:	0.984Ft
Mast rake:	0.000Ft

Luff Curve

36.837Ft,	0.000Ft
32.246Ft,	-0.052Ft
27.627Ft,	-0.089Ft
22.997Ft,	-0.108Ft
18.418Ft,	-0.111Ft
13.726Ft,	-0.103Ft
9.209Ft,	-0.082Ft
4.590Ft,	-0.047Ft
0.000Ft,	0.000Ft

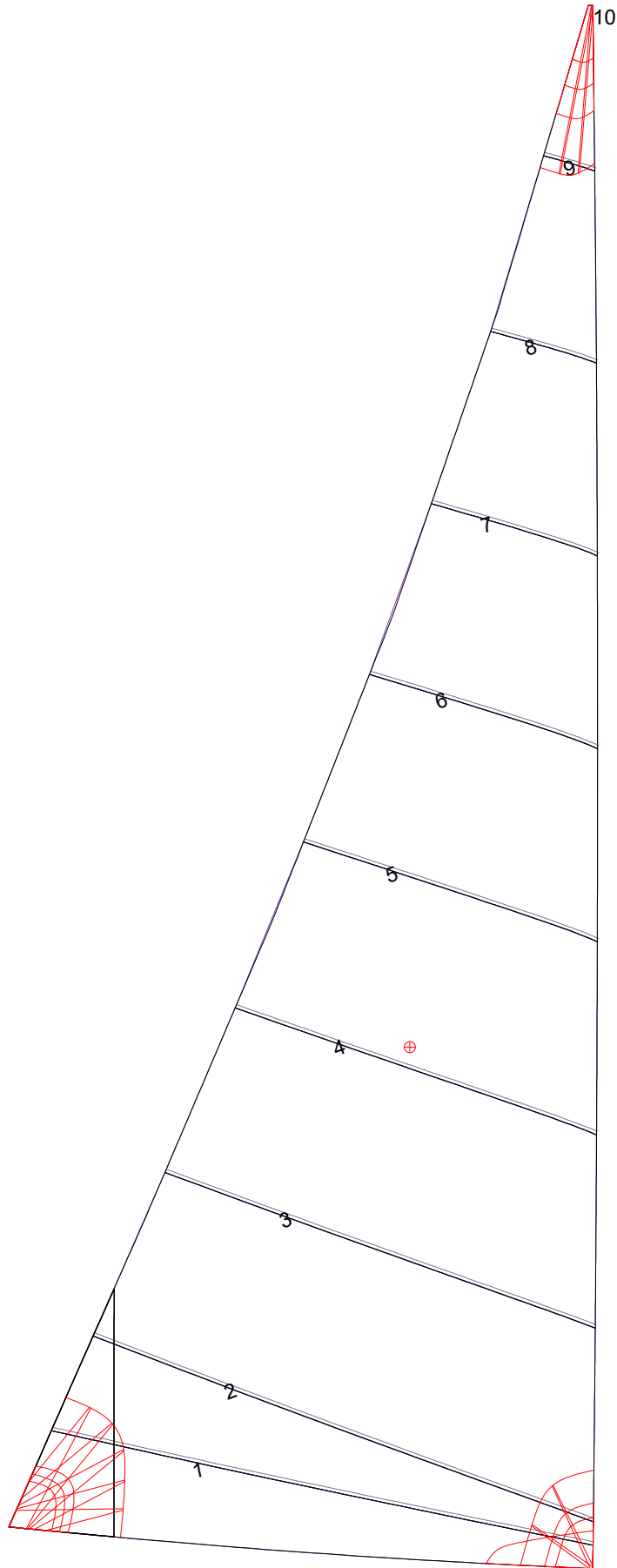
Fanned Luff (@ 5.00% [0.688Ft])

100% (36.837Ft) :	0.000Ft
90% (33.154Ft) :	0.031Ft
80% (29.469Ft) :	0.059Ft
70% (25.786Ft) :	0.077Ft
60% (22.102Ft) :	0.084Ft
50% (18.419Ft) :	0.082Ft
40% (14.735Ft) :	0.074Ft
30% (11.051Ft) :	0.061Ft
20% (7.367Ft) :	0.043Ft
10% (3.684Ft) :	0.021Ft
0% (0.000Ft) :	0.000Ft

Before BSeam

-0.000Ft
0.083Ft
0.164Ft
0.234Ft
0.284Ft
0.304Ft
0.292Ft
0.249Ft
0.181Ft
0.092Ft
0.000Ft

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Seam Allowances

	Split	Radial	Cross
Zone: 1	0.000Ft	0.000Ft	0.082Ft
Cover 1	0.000Ft	0.000Ft	0.000Ft
Cover 2	0.000Ft	0.000Ft	0.000Ft

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft
Cover 0	0.000Ft	0.230Ft	0.230Ft
Cover 1	0.000Ft	0.230Ft	0.230Ft

Total Seam Lengths (Ft)

Horizontal	67.83
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	246.88	1,2,3,4,5 6,7,8,9,10