

Mainsail: 7001014 Paul radialmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\7001014 Paul\700

Initial Design Date: 23/1/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 9.999m
 Leech geodesic: 10.627m
 Foot geodesic: 3.770m
 Head geodesic: 0.115m
 Upper width (MUW): 0.684m
 Three-quarter width (MTW): 1.250m
 Half width (MHW): 2.243m
 Quarter width (MQW): 3.072m
 Foot median: 10.263m
 ORC Mainsail area: 21.268m?
 Surface area: 21.830m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.750m	0.154m	71.311?	7.994m	8.470m	
60.000%	1.050m	0.210m	71.311?	5.995m	6.352m	
40.000%	1.050m	0.185m	71.311?	3.996m	4.235m	
20.000%	0.900m	0.107m	71.311?	1.998m	2.117m	

Reefing Points

1, Luff: 1.219m ; Leech: 1.276m ; Offset: 0.000m ; Number Eyelets: 0
 2, Luff: 2.649m ; Leech: 2.771m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 3.299m ; Leech: 3.374m ;
 2, Luff: 6.598m ; Leech: 6.877m ;

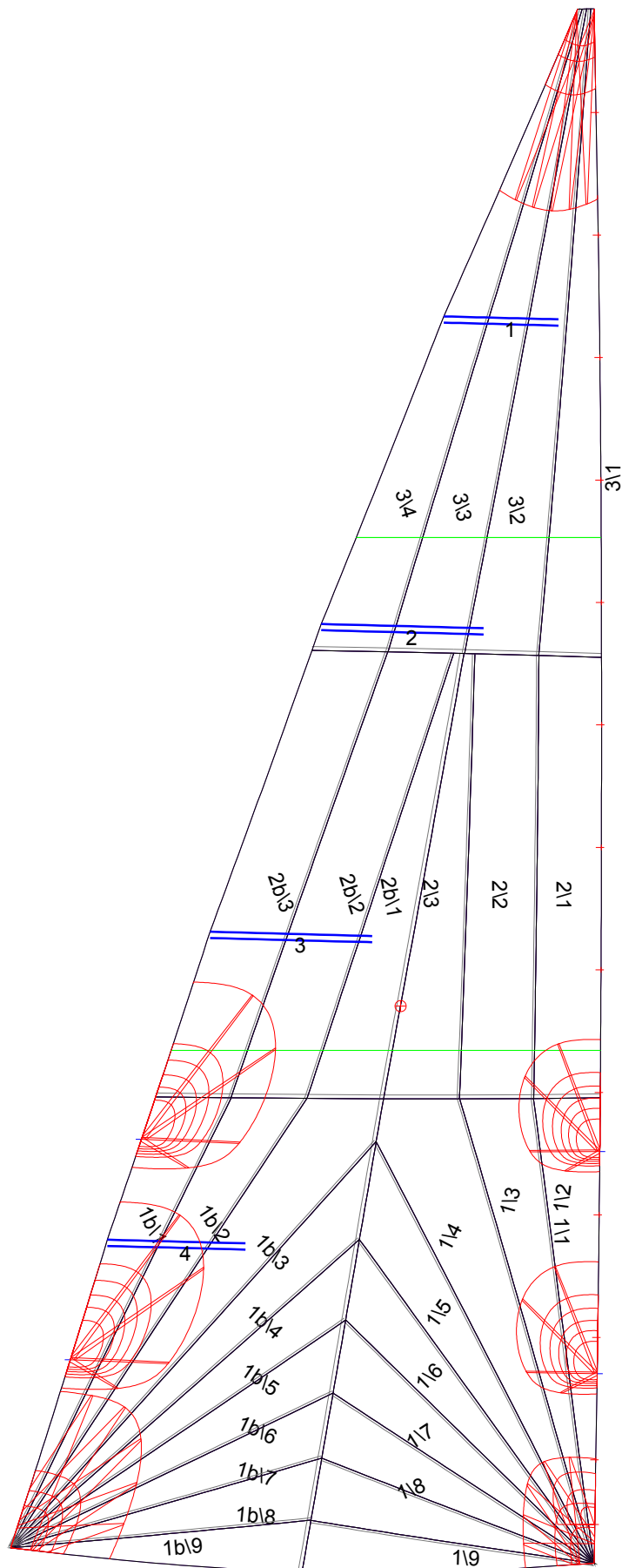
Luff Slides

1, Position: 0.666m
 2, Position: 1.454m
 3, Position: 2.241m
 4, Position: 3.029m
 5, Position: 3.817m
 6, Position: 4.605m
 7, Position: 5.392m
 8, Position: 6.180m
 9, Position: 6.968m
 10, Position: 7.755m
 11, Position: 8.543m
 12, Position: 9.331m

Luff Curve

		Fanned Luff (@ 5.00% [0.188m])	Before BSeam
9.999m,	0.000m	100% (9.999m) :	0.000m
8.753m,	-0.023m	90% (8.999m) :	0.039m
7.499m,	-0.040m	80% (7.999m) :	0.073m
6.242m,	-0.047m	70% (6.999m) :	0.096m
4.999m,	-0.048m	60% (5.999m) :	0.109m
3.726m,	-0.044m	50% (5.000m) :	0.112m
2.500m,	-0.035m	40% (4.000m) :	0.106m
1.246m,	-0.020m	30% (3.000m) :	0.090m
0.000m,	0.000m	20% (2.000m) :	0.067m
		10% (1.000m) :	0.034m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2/a	0.025m	0.015m	0.025m
Zone: 2/b	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m

Edge Excesses

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

Total Seam Lengths (m)

Horizontal	4.92
Radial/Vertical	66.89
Bi-Radial Split	6.18

Materials

Material	Area (m ²)	Panels
Material 1	21.85	1/1,1/2,1/3,1/4,1/5 1/6,1/7,1/8,1/9,1b/1 1b/2,1b/3,1b/4,1b/5,1b/6 1b/7,1b/8,1b/9,2/1,2/2 2/3,2b/1,2b/2,2b/3,3/1 3/2,3/3,3/4