

Mainsail: 7001014 Paul radialmainV1.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:	10.516m
Foot geodesic:	3.770m
Head geodesic:	0.115m
Upper width (MUW):	0.787m
Three-quarter width (MTW):	1.455m
Half width (MHW):	2.506m
Quarter width (MQW):	3.243m
Foot median:	10.201m
ORC Mainsail area:	22.866m?
Surface area:	23.737m?
Clew height:	0.100m
Mast rake:	0.400m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.750m	0.384m	73.043?	7.992m	8.374m	
60.000%	1.050m	0.524m	73.043?	5.993m	6.281m	
40.000%	1.050m	0.461m	73.043?	3.995m	4.187m	
20.000%	0.900m	0.266m	73.043?	1.997m	2.094m	

Reefing Points

- 1, Luff: 1.219m ; Leech: 1.242m ; Offset: 0.000m ; Number Eyelets: 0
- 2, Luff: 2.648m ; Leech: 2.699m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

- 1, Luff: 3.298m ; Leech: 3.281m ;
- 2, Luff: 6.598m ; Leech: 6.723m ;

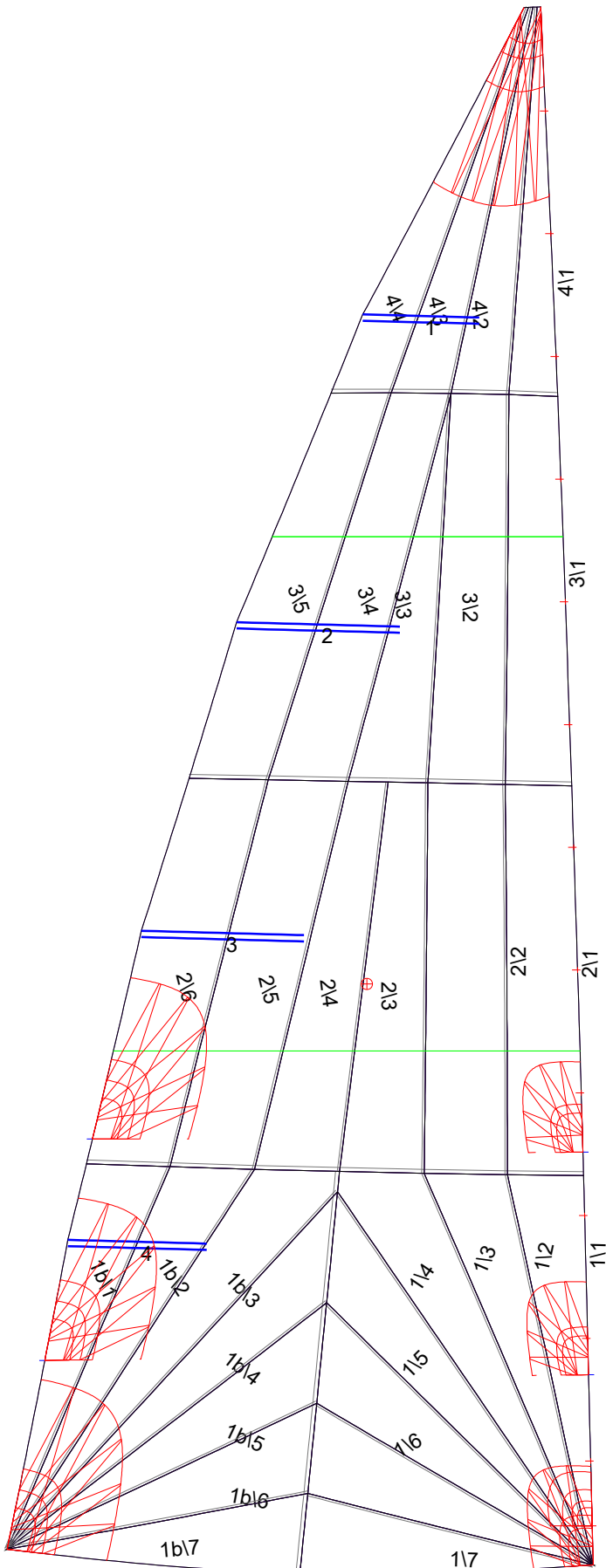
Luff Slides

- 1, Position: 0.666m
- 2, Position: 1.453m
- 3, Position: 2.241m
- 4, Position: 3.029m
- 5, Position: 3.816m
- 6, Position: 4.604m
- 7, Position: 5.392m
- 8, Position: 6.179m
- 9, Position: 6.967m
- 10, Position: 7.755m
- 11, Position: 8.542m
- 12, Position: 9.330m

Luff Curve

		Fanned Luff (@ 5.00% [0.188m])	Before BSeam
9.999m,	0.000m	100% (9.999m) :	0.000m
7.749m,	-0.022m	90% (8.999m) :	0.034m
5.600m,	-0.030m	80% (7.999m) :	0.065m
2.500m,	-0.022m	70% (6.999m) :	0.086m
0.000m,	0.000m	60% (5.999m) :	0.098m
		50% (5.000m) :	0.100m
		40% (4.000m) :	0.093m
		30% (3.000m) :	0.077m
		20% (2.000m) :	0.055m
		10% (1.000m) :	0.027m
		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	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m
Zone: 4	0.025m	0.015m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	7.37
Radial/Vertical	61.05
Bi-Radial Split	2.71

Materials

Material	Area (m ²)	Panels
Material 1	23.75	1/1,1/2,1/3,1/4,1/5 1/6,1/7,1b1,1b2,1b3 1b4,1b5,1b6,1b7,2/1 2/2,2/3,2/4,2/5,2/6 3/1,3/2,3/3,3/4,3/5 4/1,4/2,4/3,4/4