

Mainsail: 7001004 Paul-1 Custom Catamaran MainsailV3.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001004 Paul\7001

Initial Design Date: 10/10/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	18.750m
Leech geodesic:	19.260m
Foot geodesic:	6.550m
Head geodesic:	0.140m
Upper width (MUW):	2.034m
Three-quarter width (MTW):	3.554m
Half width (MHW):	5.017m
Quarter width (MQW):	5.872m
Foot median:	18.892m
ORC Mainsail area:	83.821m?
Surface area:	87.655m?
Clew height:	0.703m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
91.117%	2.079m	1.233m	70.493?	17.146m	17.431m	Full
81.687%	3.410m	1.854m	70.493?	15.445m	15.627m	Full
71.236%	4.189m	1.904m	70.493?	13.561m	13.628m	Full
59.642%	4.790m	1.739m	70.493?	11.470m	11.410m	Full
47.621%	5.206m	1.406m	70.493?	9.303m	9.110m	Full
35.487%	5.609m	1.078m	70.493?	7.115m	6.789m	Full
23.300%	5.969m	0.729m	70.493?	4.917m	4.457m	Full
10.446%	6.298m	0.335m	70.493?	2.599m	1.998m	Full

Reefing Points

- 1, Luff: 2.995m ; Leech: 3.008m ; Offset: 0.000m ; Number Eyelets: 0
- 2, Luff: 5.898m ; Leech: 5.918m ; Offset: 0.000m ; Number Eyelets: 0
- 3, Luff: 9.553m ; Leech: 9.576m ; Offset: 0.000m ; Number Eyelets: 0

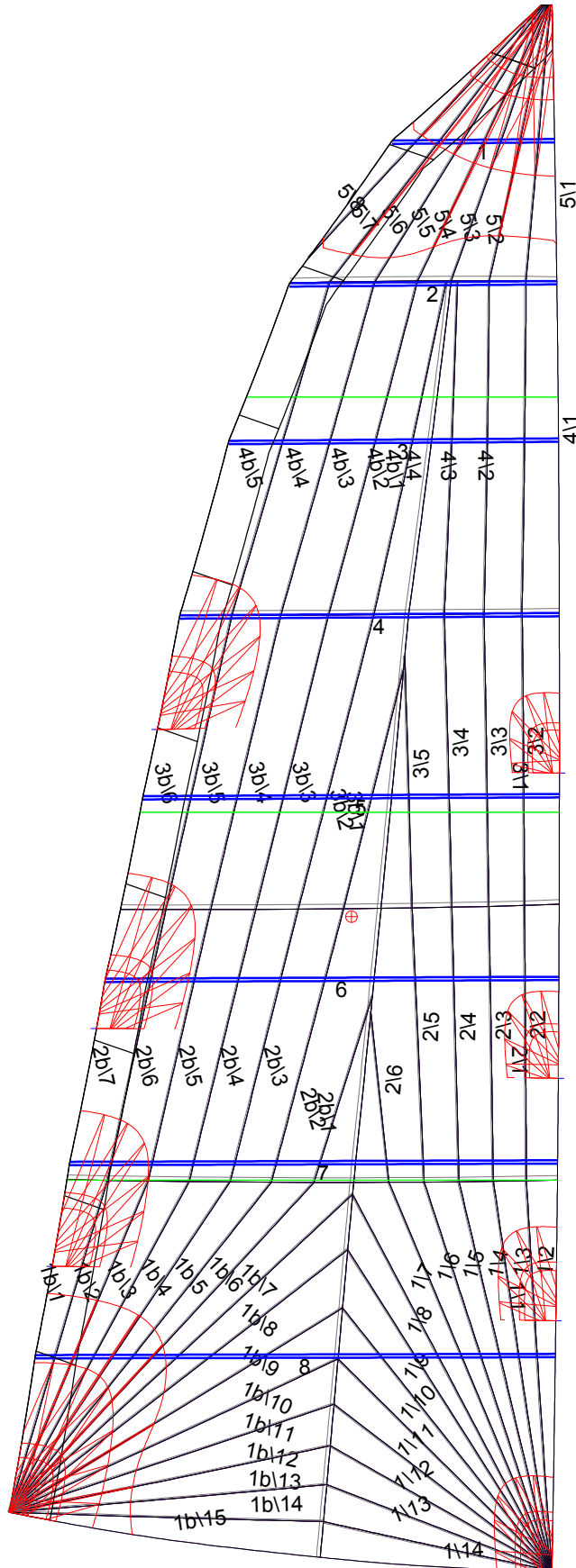
Draft Stripes

- 1, Luff: 4.681m ; Leech: 4.061m ;
- 2, Luff: 9.084m ; Leech: 8.564m ;
- 3, Luff: 14.054m ; Leech: 13.684m ;

Luff Curve

Luff Curve	Fanned Luff (@ 5.00% [0.325m])	Before BSeam
18.749m, 0.000m	100% (18.750m) :	0.000m
16.413m, -0.043m	90% (16.876m) :	0.084m
14.062m, -0.074m	80% (15.000m) :	0.151m
11.705m, -0.087m	70% (13.125m) :	0.188m
9.374m, -0.088m	60% (11.250m) :	0.199m
6.986m, -0.082m	50% (9.375m) :	0.189m
4.687m, -0.065m	40% (7.500m) :	0.167m
2.336m, -0.037m	30% (5.625m) :	0.133m
0.000m, 0.000m	20% (3.750m) :	0.092m
	10% (1.876m) :	0.044m
	0% (0.000m) :	0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.045m	0.016m	0.055m
Zone: 1/b	0.045m	0.016m	0.055m
Zone: 2/a	0.045m	0.016m	0.055m
Zone: 2/b	0.045m	0.016m	0.055m
Zone: 3/a	0.045m	0.016m	0.055m
Zone: 3/b	0.045m	0.016m	0.055m
Zone: 4/a	0.045m	0.016m	0.055m
Zone: 4/b	0.045m	0.016m	0.055m
Zone: 5	0.045m	0.016m	0.055m
Cover 1	0.025m	0.025m	0.025m

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	19.64
Radial/Vertical	240.13
Bi-Radial Split	16.00

Materials

Material	Area (m ²)	Panels
Material 1	87.64	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1\13,1\14,1b\1 1b\2,1b\3,1b\4,1b\5,1b\6 1b\7,1b\8,1b\9,1b\10,1b\11 1b\12,1b\13,1b\14,1b\15,2\1 2\2,2\3,2\4,2\5,2\6 2b\1,2b\2,2b\3,2b\4,2b\5 2b\6,2b\7,3\1,3\2,3\3 3\4,3\5,3b\1,3b\2,3b\3 3b\4,3b\5,3b\6,4\1,4\2 4\3,4\4,4b\1,4b\2,4b\3 4b\4,4b\5,5\1,5\2,5\3 5\4,5\5,5\6,5\7,5\8