

Mainsail: 7001004 Paul-1 Custom Catamaran MainsailV2.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: 0.100m
Upper width (MUW): 1.977m
Three-quarter width (MTW): 3.359m
Half width (MHW): 4.942m
Quarter width (MQW): 5.847m
Foot median: 18.882m
ORC Mainsail area: 82.485m?
Surface area: 86.015m?
Clew height: 0.743m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
91.117%	1.889m	1.120m	76.995?	17.069m	17.408m	Full
81.687%	3.083m	1.620m	76.995?	15.299m	15.606m	Full
71.236%	3.938m	1.745m	76.995?	13.338m	13.609m	Full
59.642%	4.627m	1.655m	76.995?	11.165m	11.394m	Full
47.621%	5.148m	1.405m	76.995?	8.913m	9.098m	Full
35.487%	5.567m	1.077m	76.995?	6.640m	6.780m	Full
23.300%	5.944m	0.727m	76.995?	4.358m	4.451m	Full
11.685%	6.233m	0.342m	76.995?	2.185m	2.232m	Full

Reefing Points

1, Luff: 2.714m ; Leech: 2.739m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 5.336m ; Leech: 5.371m ; Offset: 0.000m ; Number Eyelets: 0
3, Luff: 9.365m ; Leech: 9.402m ; Offset: 0.000m ; Number Eyelets: 0

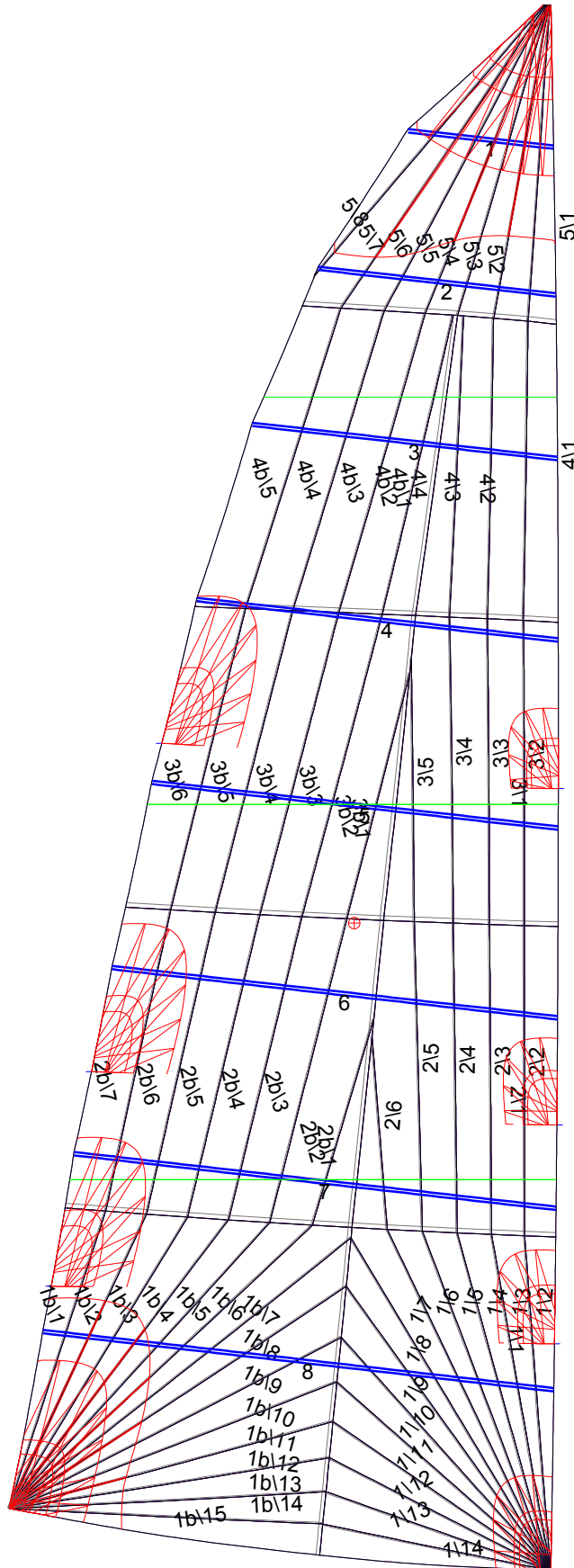
Draft Stripes

1, Luff: 4.680m ; Leech: 4.044m ;
2, Luff: 9.178m ; Leech: 8.652m ;
3, Luff: 14.054m ; Leech: 13.693m ;

Luff Curve

Luff Curve	Fanned Luff (@ 5.00% [0.324m])	Before BSeam
18.749m, 0.000m	100% (18.750m) :	0.000m
16.413m, -0.043m	90% (16.876m) :	0.085m
14.062m, -0.074m	80% (15.000m) :	0.153m
11.705m, -0.087m	70% (13.125m) :	0.192m
9.374m, -0.088m	60% (11.250m) :	0.208m
6.986m, -0.082m	50% (9.375m) :	0.203m
4.687m, -0.065m	40% (7.500m) :	0.177m
2.336m, -0.037m	30% (5.625m) :	0.140m
0.000m, 0.000m	20% (3.750m) :	0.097m
	10% (1.876m) :	0.048m
	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

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	19.33
Radial/Vertical	236.82
Bi-Radial Split	15.59

Materials

Material	Area (m ²)	Panels
Material 1	86.00	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