

Mainsail: 7001130 Roy-1 catamaran Main.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\7001130 Roy\7001

Initial Design Date: 17/1/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	13.365m
Leech geodesic:	13.932m
Foot geodesic:	4.653m
Head geodesic:	0.135m
Upper width (MUW):	1.621m
Three-quarter width (MTW):	2.793m
Half width (MHW):	3.983m
Quarter width (MQW):	4.448m
Foot median:	13.594m
ORC Mainsail area:	45.762m?
Surface area:	48.573m?
Clew height:	0.383m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
89.412%	1.845m	1.125m	84.954?	11.815m	12.374m	Full
77.626%	2.965m	1.622m	78.977?	10.270m	10.743m	Full
65.451%	3.590m	1.633m	75.632?	8.709m	9.058m	Full
53.656%	3.981m	1.476m	75.632?	7.128m	7.426m	Full
41.805%	4.230m	1.204m	75.632?	5.539m	5.786m	Full
28.784%	4.427m	0.856m	75.632?	3.795m	3.984m	Full
15.324%	4.554m	0.457m	75.632?	1.994m	2.121m	Full

Reefing Points

- 1, Luff: 1.628m ; Leech: 1.636m ; Offset: 0.000m ; Number Eyelets: 4
- 2, Luff: 3.536m ; Leech: 3.553m ; Offset: 0.000m ; Number Eyelets: 4
- 3, Luff: 5.940m ; Leech: 5.966m ; Offset: 0.000m ; Number Eyelets: 3

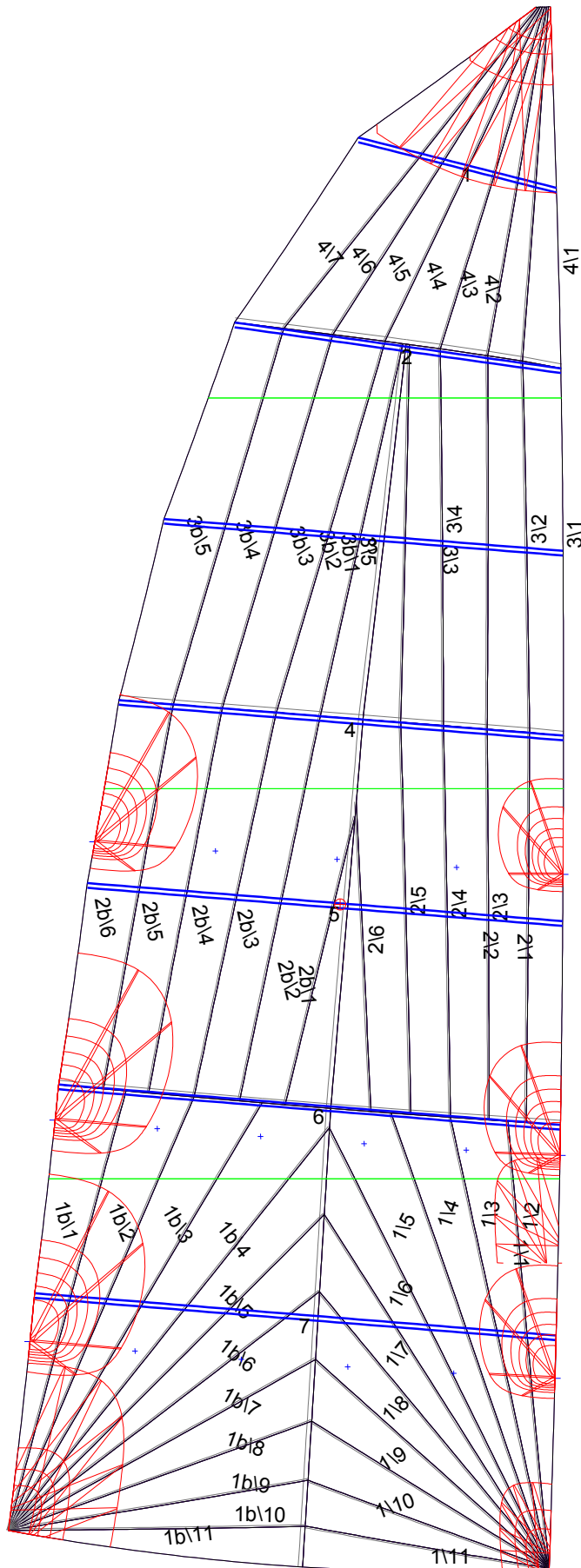
Draft Stripes

- 1, Luff: 3.336m ; Leech: 3.045m ;
- 2, Luff: 6.675m ; Leech: 6.428m ;
- 3, Luff: 10.017m ; Leech: 9.866m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.231m])	Before BSeam
13.364m,	0.000m	100% (13.365m) :	0.000m
11.698m,	-0.056m	90% (12.030m) :	0.033m
10.023m,	-0.096m	80% (10.692m) :	0.061m
8.343m,	-0.113m	70% (9.356m) :	0.077m
6.682m,	-0.115m	60% (8.019m) :	0.084m
4.979m,	-0.106m	50% (6.683m) :	0.084m
3.341m,	-0.085m	40% (5.346m) :	0.079m
1.665m,	-0.048m	30% (4.009m) :	0.069m
0.000m,	0.000m	20% (2.672m) :	0.051m
		10% (1.337m) :	0.026m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.038m
Zone: 1/b	0.038m	0.015m	0.038m
Zone: 2/a	0.038m	0.015m	0.038m
Zone: 2/b	0.038m	0.015m	0.038m
Zone: 3/a	0.038m	0.015m	0.038m
Zone: 3/b	0.038m	0.015m	0.038m
Zone: 4	0.038m	0.015m	0.038m

Edge Excesses

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

Total Seam Lengths (m)

Horizontal	11.37
Radial/Vertical	145.77
Bi-Radial Split	10.91

Materials

Material	Area (m ²)	Panels
Material 1	48.61	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1b\1,1b\2,1b\3,1b\4 1b\5,1b\6,1b\7,1b\8,1b\9 1b\10,1b\11,2\1,2\2,2\3 2\4,2\5,2\6,2b\1,2b\2 2b\3,2b\4,2b\5,2b\6,3\1 3\2,3\3,3\4,3\5,3b\1 3b\2,3b\3,3b\4,3b\5,4\1 4\2,4\3,4\4,4\5,4\6 4\7