

Mainsail: 7000405 Peter-1 Castle650 Mainsail V1.des

Design Info
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Design File:
\\Nas\工程部-专用文件\Queenie-跟进客户\Fareast Sails\2023 Order\Need Confrim Order\7000405 Peter\7000405 Peter

Initial Design Date: 12/4/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 7.722m
Leech geodesic: 8.157m
Foot geodesic: 2.840m
Head geodesic: 0.114m
Upper width (MUW): 0.670m
Three-quarter width (MTW): 1.187m
Half width (MHW): 1.961m
Quarter width (MQW): 2.493m
Foot median: 7.928m
ORC Mainsail area: 13.761m?
Surface area: 14.326m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
81.649%	1.066m	0.338m	93.366?	6.046m	6.625m	Full
61.440%	0.861m	0.417m	90.000?	4.346m	4.985m	
40.869%	0.861m	0.390m	90.000?	2.577m	3.316m	
20.397%	0.718m	0.237m	90.000?	0.821m	1.655m	

Reefing Points

1, Luff: 0.000m ; Leech: 0.250m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 1.081m ; Leech: 1.154m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 2.548m ; Leech: 2.549m ;
2, Luff: 5.096m ; Leech: 5.220m ;

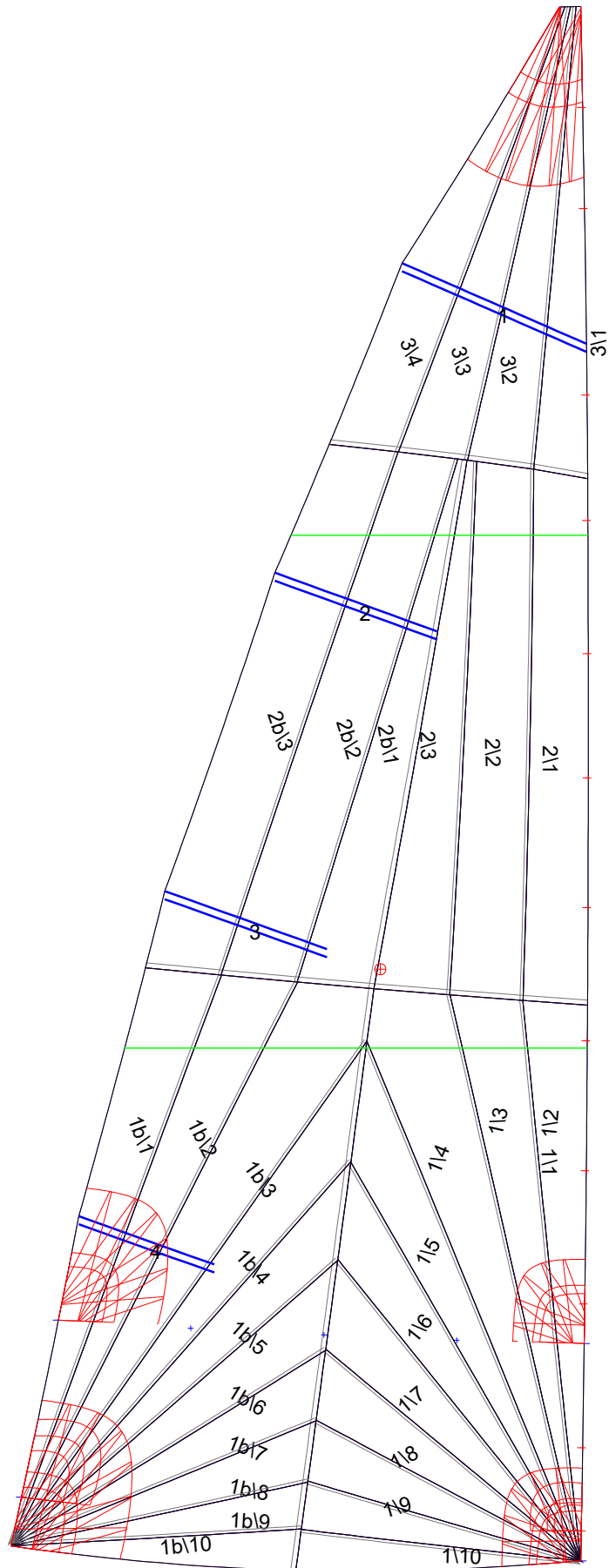
Luff Slides

1, Position: 0.562m
2, Position: 1.277m
3, Position: 1.938m
4, Position: 2.584m
5, Position: 3.245m
6, Position: 3.889m
7, Position: 4.507m
8, Position: 5.168m
9, Position: 5.792m
10, Position: 6.719m
11, Position: 7.220m

Luff Curve

		Fanned Luff (@ 5.00% [0.141m])	Before BSeam
7.722m,	0.000m	100% (7.722m) :	0.000m
6.759m,	-0.018m	90% (6.950m) :	0.034m
5.791m,	-0.031m	80% (6.178m) :	0.065m
4.821m,	-0.036m	70% (5.405m) :	0.087m
3.861m,	-0.037m	60% (4.633m) :	0.098m
2.877m,	-0.034m	50% (3.861m) :	0.098m
1.930m,	-0.027m	40% (3.089m) :	0.088m
0.962m,	-0.016m	30% (2.317m) :	0.070m
0.000m,	0.000m	20% (1.544m) :	0.047m
		10% (0.772m) :	0.022m
		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	3.68
Radial/Vertical	57.26
Bi-Radial Split	5.79

Materials

Material	Area (m ²)	Panels
Material 1	14.35	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1b\1,1b\2,1b\3,1b\4,1b\5 1b\6,1b\7,1b\8,1b\9,1b\10 2\1,2\2,2\3,2b\1,2b\2 2b\3,3\1,3\2,3\3,3\4