

Mainsail: 8000706 Romuald-1 Kelt 9m fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000706 Romuald

Initial Design Date: 22/7/2024
Boat:
Kelt 9m
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 10.050m
Leech geodesic: 10.420m
Foot geodesic: 3.049m
Head geodesic: 0.115m
Upper width (MUW): 0.582m
Three-quarter width (MTW): 1.049m
Half width (MHW): 1.880m
Quarter width (MQW): 2.536m
Foot median: 10.217m
ORC Mainsail area: 17.705m?
Surface area: 18.077m?
Clew height: 0.104m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.891m	0.209m	73.018?	8.061m	8.319m	Full
60.000%	1.605m	0.272m	73.018?	6.072m	6.239m	Full
40.000%	2.188m	0.240m	73.018?	4.083m	4.159m	Full
20.000%	2.660m	0.139m	73.018?	2.094m	2.080m	Full

Reefing Points

1, Luff: 1.226m ; Leech: 1.255m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 2.663m ; Leech: 2.725m ; Offset: 0.000m ; Number Eyelets: 2
3, Luff: 4.271m ; Leech: 4.372m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.317m ; Leech: 3.313m ;
2, Luff: 6.633m ; Leech: 6.764m ;

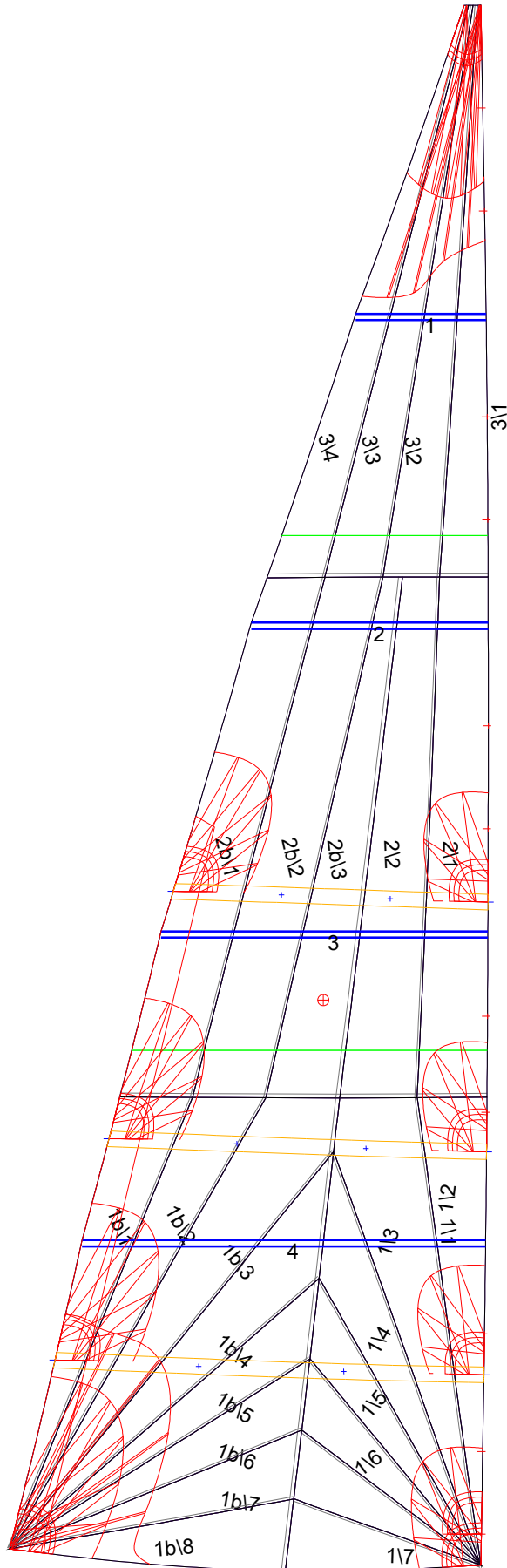
Luff Slides

1, Position: 0.732m
2, Position: 1.490m
3, Position: 2.918m
4, Position: 3.536m
5, Position: 4.743m
6, Position: 5.407m
7, Position: 6.733m
8, Position: 7.397m
9, Position: 8.723m
10, Position: 9.387m

Luff Curve

		Fanned Luff (@ 5.00% [0.152m])	Before BSeam
10.050m,	0.000m	100% (10.050m) :	0.000m
8.797m,	-0.023m	90% (9.045m) :	0.015m
7.537m,	-0.040m	80% (8.040m) :	0.027m
6.274m,	-0.047m	70% (7.035m) :	0.034m
5.025m,	-0.048m	60% (6.030m) :	0.036m
3.745m,	-0.044m	50% (5.025m) :	0.036m
2.512m,	-0.035m	40% (4.020m) :	0.033m
1.252m,	-0.020m	30% (3.015m) :	0.028m
0.000m,	0.000m	20% (2.010m) :	0.021m
		10% (1.005m) :	0.010m
		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
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	3.94
Radial/Vertical	52.90
Bi-Radial Split	6.62

Materials

Material	Area (m ²)	Panels
Material 1	18.08	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 2\1,2\2,2b\3,2b\2,2b\1 3\1,3\2,3\3,3\4