

Mainsail: 7000908 Lawrie-1 Lagoon 380 square top Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7000908 Lawrie\7000908 Lawrie-1 Lagoon 380 square top Mainsail.des

Initial Design Date: 7/10/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 13.020m
 Leech geodesic: 12.951m
 Foot geodesic: 5.150m
 Head geodesic: 1.700m
 Upper width (MUW): 1.933m
 Three-quarter width (MTW): 3.079m
 Half width (MHW): 4.203m
 Quarter width (MQW): 4.728m
 Foot median: 12.853m
 ORC Mainsail area: 49.490m?
 Surface area: 51.522m?
 Clew height: 0.870m
 Mast rake: 0.940m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
100.000%	2.028m	0.000m	107.201?	11.934m	12.822m	Full
88.549%	2.875m	0.707m	87.420?	11.191m	11.354m	Full
73.256%	3.645m	0.939m	82.677?	9.488m	9.393m	Full
55.494%	4.221m	0.889m	82.677?	7.305m	7.115m	Full
36.999%	4.625m	0.684m	82.677?	5.032m	4.744m	Full
17.406%	4.889m	0.342m	82.677?	2.623m	2.232m	Full

Reefing Points

- 1, Luff: 1.758m ; Leech: 1.735m ; Offset: 0.000m ; Number Eyelets: 4
- 2, Luff: 3.711m ; Leech: 3.656m ; Offset: 0.000m ; Number Eyelets: 4
- 3, Luff: 5.859m ; Leech: 5.757m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

- 1, Luff: 3.255m ; Leech: 2.400m ;
- 2, Luff: 6.510m ; Leech: 5.678m ;
- 3, Luff: 9.765m ; Leech: 8.967m ;

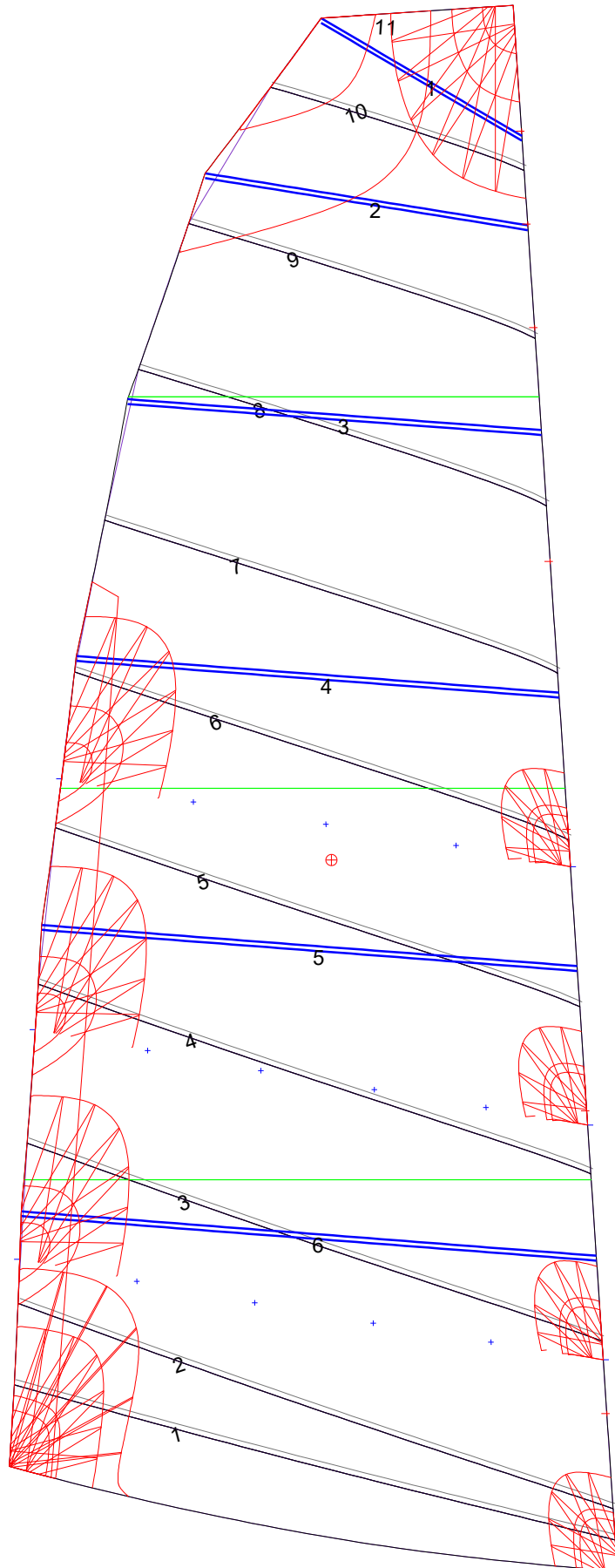
Luff Slides

- 1, Position: 1.312m
- 2, Position: 3.827m
- 3, Position: 6.168m
- 4, Position: 8.397m
- 5, Position: 10.340m
- 6, Position: 11.201m
- 7, Position: 11.973m

Luff Curve

		Fanned Luff (@ 5.00% [0.252m])	Before BSeam
13.020m,	0.000m	100% (13.020m) :	0.000m -0.000m
11.398m,	0.000m	90% (11.718m) :	-0.002m 0.028m
9.765m,	0.000m	80% (10.416m) :	-0.002m 0.055m
8.128m,	0.000m	70% (9.114m) :	-0.002m 0.075m
6.510m,	0.000m	60% (7.812m) :	-0.003m 0.083m
4.851m,	0.000m	50% (6.510m) :	-0.004m 0.081m
3.255m,	0.000m	40% (5.208m) :	-0.005m 0.070m
1.622m,	0.000m	30% (3.906m) :	-0.006m 0.053m
0.000m,	0.000m	20% (2.604m) :	-0.006m 0.032m
		10% (1.302m) :	-0.005m 0.013m
		0% (0.000m) :	0.000m 0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000m	0.000m	0.045m

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	43.28
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	51.45	1,2,3,4,5 6,7,8,9,10 11