

Mainsail: 8000238 LAURENT-1 stdmainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000238 LAURENT

Initial Design Date: 27/2/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 9.750m
 Leech geodesic: 10.415m
 Foot geodesic: 3.800m
 Head geodesic: 0.115m
 Upper width (MUW): 0.742m
 Three-quarter width (MTW): 1.360m
 Half width (MHW): 2.380m
 Quarter width (MQW): 3.179m
 Foot median: 10.028m
 ORC Mainsail area: 21.640m?
 Surface area: 22.336m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.760m	0.261m	70.655?	7.795m	8.293m	
60.000%	1.100m	0.339m	70.655?	5.846m	6.220m	
40.000%	1.100m	0.299m	70.655?	3.897m	4.147m	
20.000%	0.950m	0.173m	70.655?	1.948m	2.073m	

Reefing Points

- 1, Luff: 1.189m ; Leech: 1.238m ; Offset: 0.000m ; Number Eyelets: 2
- 2, Luff: 2.680m ; Leech: 2.791m ; Offset: 0.000m ; Number Eyelets: 2
- 3, Luff: 4.143m ; Leech: 4.317m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 3.217m ; Leech: 3.271m ;
- 2, Luff: 6.434m ; Leech: 6.689m ;

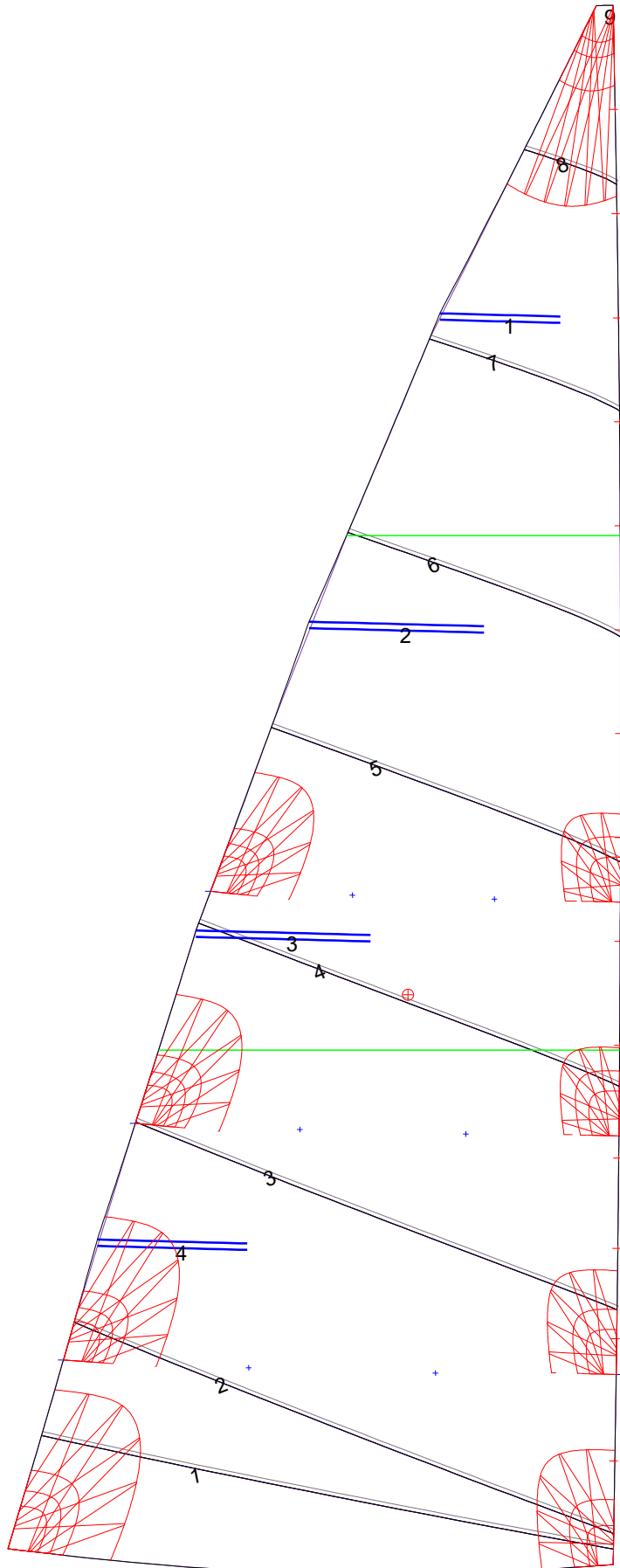
Luff Slides

- 1, Position: 0.649m
- 2, Position: 1.414m
- 3, Position: 1.978m
- 4, Position: 2.542m
- 5, Position: 3.247m
- 6, Position: 3.897m
- 7, Position: 4.546m
- 8, Position: 5.196m
- 9, Position: 5.846m
- 10, Position: 6.496m
- 11, Position: 7.145m
- 12, Position: 7.795m
- 13, Position: 8.447m
- 14, Position: 9.098m

Luff Curve

		Fanned Luff (@ 5.00% [0.189m])	Before BSeam
9.750m,	0.000m	100% (9.750m) :	0.000m
8.535m,	-0.023m	90% (8.775m) :	0.042m
7.312m,	-0.039m	80% (7.800m) :	0.078m
6.087m,	-0.046m	70% (6.825m) :	0.102m
4.875m,	-0.046m	60% (5.850m) :	0.116m
3.633m,	-0.043m	50% (4.875m) :	0.119m
2.437m,	-0.034m	40% (3.900m) :	0.113m
1.215m,	-0.019m	30% (2.925m) :	0.096m
0.000m,	0.000m	20% (1.950m) :	0.068m
		10% (0.975m) :	0.033m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.025m	0.025m	0.025m

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

Total Seam Lengths (m)

Horizontal	19.94
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	22.33	1,2,3,4,5 6,7,8,9