

Mainsail: 7000711 Steven -1 Vancouver 27 Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000711 Steven\7000

Initial Design Date: 12/7/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 8.989m
 Leech geodesic: 9.376m
 Foot geodesic: 2.960m
 Head geodesic: 0.115m
 Upper width (MUW): 0.573m
 Three-quarter width (MTW): 1.032m
 Half width (MHW): 1.813m
 Quarter width (MQW): 2.436m
 Foot median: 9.116m
 ORC Mainsail area: 15.322m?
 Surface area: 15.533m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.891m	0.143m	73.853?	7.186m	7.480m	Full
60.000%	1.552m	0.186m	73.853?	5.389m	5.610m	Full
40.000%	2.100m	0.164m	73.853?	3.592m	3.740m	Full
20.000%	2.555m	0.094m	73.853?	1.796m	1.870m	Full

Reefing Points

1, Luff: 1.123m ; Leech: 1.161m ; Offset: 0.000m ; Number Eyelets: 2
 2, Luff: 2.247m ; Leech: 2.321m ; Offset: 0.000m ; Number Eyelets: 2
 3, Luff: 3.325m ; Leech: 3.435m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 2.966m ; Leech: 3.005m ;
 2, Luff: 5.932m ; Leech: 6.107m ;

Luff Slides

1, Position: 0.898m
 2, Position: 2.694m
 3, Position: 4.491m
 4, Position: 6.288m
 5, Position: 8.088m

Luff Curve

		Fanned Luff (@ 5.00% [0.147m])	Before BSeam
8.989m,	0.000m	100% (8.989m) :	0.000m
7.869m,	-0.021m	90% (8.090m) :	0.011m
6.742m,	-0.036m	80% (7.191m) :	0.021m
5.612m,	-0.042m	70% (6.292m) :	0.027m
4.494m,	-0.043m	60% (5.393m) :	0.029m
3.349m,	-0.040m	50% (4.495m) :	0.029m
2.247m,	-0.032m	40% (3.596m) :	0.026m
1.120m,	-0.018m	30% (2.697m) :	0.022m
0.000m,	0.000m	20% (1.798m) :	0.016m
		10% (0.899m) :	0.008m
		0% (0.000m) :	0.000m

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

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

Total Seam Lengths (m)

Horizontal	14.87
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	15.54	1,2,3,4,5 6,7,8,9

