

Mainsail: 8000120-1 Mainsail V2.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000120\mainsail\

Initial Design Date: 14/5/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	12.800m
Leech geodesic:	13.542m
Foot geodesic:	4.490m
Head geodesic:	0.160m
Upper width (MUW):	0.970m
Three-quarter width (MTW):	1.710m
Half width (MHW):	2.920m
Quarter width (MQW):	3.800m
Foot median:	13.125m
ORC Mainsail area:	34.468m?
Surface area:	35.487m?
Clew height:	0.078m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
83.333%	1.345m	0.355m	71.972?	10.665m	11.237m	Full
66.667%	1.210m	0.417m	71.972?	8.535m	8.990m	
50.000%	1.350m	0.421m	71.972?	6.406m	6.742m	
33.333%	1.550m	0.318m	71.972?	4.278m	4.495m	
16.667%	1.550m	0.162m	71.972?	2.149m	2.247m	

Reefing Points

- 1, Luff: 1.302m ; Leech: 1.187m ; Offset: 0.000m ; Number Eyelets: 2
- 2, Luff: 3.323m ; Leech: 3.345m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 3.135m ; Leech: 3.176m ;
- 2, Luff: 6.335m ; Leech: 6.506m ;
- 3, Luff: 9.598m ; Leech: 9.955m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.224m])	Before BSeam
12.799m,	0.000m	100% (12.800m) :	0.000m
11.038m,	-0.042m	90% (11.520m) :	0.023m
9.457m,	-0.075m	80% (10.240m) :	0.114m
7.872m,	-0.097m	70% (8.960m) :	0.155m
6.305m,	-0.105m	60% (7.680m) :	0.182m
4.698m,	-0.097m	50% (6.400m) :	0.190m
3.152m,	-0.075m	40% (5.120m) :	0.180m
1.571m,	-0.042m	30% (3.840m) :	0.151m
0.000m,	0.000m	20% (2.560m) :	0.110m
		10% (1.280m) :	0.022m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.080m	0.080m	0.080m

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

Total Seam Lengths (m)

Horizontal	12.60
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	35.25	1,2,3,4,5

