

Mainsail: 8000120 Manuel-1 Mainsail V3.des

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

Initial Design Date: 23/5/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	12.800m
Leech geodesic:	13.536m
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:	13.123m
ORC Mainsail area:	34.466m?
Surface area:	35.345m?
Clew height:	0.078m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
85.020%	1.206m	0.223m	72.225?	10.869m	11.461m	Full
68.394%	1.210m	0.298m	72.225?	8.741m	9.220m	
51.225%	1.350m	0.292m	72.225?	6.546m	6.905m	
32.968%	1.550m	0.210m	72.225?	4.212m	4.444m	
17.596%	1.550m	0.109m	72.225?	2.248m	2.372m	

Reefing Points

- 1, Luff: 1.303m ; Leech: 1.196m ; Offset: 0.000m ; Number Eyelets: 2
- 2, Luff: 3.324m ; Leech: 3.366m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 3.136m ; Leech: 3.197m ;
- 2, Luff: 6.333m ; Leech: 6.540m ;
- 3, Luff: 9.594m ; Leech: 9.987m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.224m])	Before BSeam
12.794m,	0.000m	100% (12.800m) :	0.000m
11.201m,	-0.112m	90% (11.522m) :	0.068m
9.600m,	-0.183m	80% (10.241m) :	0.208m
8.000m,	-0.224m	70% (8.961m) :	0.268m
6.399m,	-0.230m	60% (7.681m) :	0.302m
4.799m,	-0.206m	50% (6.400m) :	0.308m
3.199m,	-0.156m	40% (5.120m) :	0.286m
1.599m,	-0.085m	30% (3.839m) :	0.239m
0.000m,	0.000m	20% (2.559m) :	0.173m
		10% (1.280m) :	0.047m
		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	12.56
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	35.12	1,2,3,4,5

