

Mainsail: 8000235 Michael Hunter 37 Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000235 Michael H

Initial Design Date: 28/2/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	12.221m
Leech geodesic:	12.774m
Foot geodesic:	3.923m
Head geodesic:	0.115m
Upper width (MUW):	0.767m
Three-quarter width (MTW):	1.398m
Half width (MHW):	2.448m
Quarter width (MQW):	3.277m
Foot median:	12.469m
ORC Mainsail area:	27.948m?
Surface area:	28.639m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.209m	0.243m	74.070?	9.772m	10.186m	Full
60.000%	2.106m	0.323m	74.070?	7.329m	7.640m	Full
40.000%	1.200m	0.285m	74.070?	4.886m	5.093m	
20.000%	1.200m	0.165m	74.070?	2.444m	2.547m	

Reefing Points

- 1, Luff: 1.490m ; Leech: 1.534m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 3.360m ; Leech: 3.456m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

- 1, Luff: 3.054m ; Leech: 3.054m ;
- 2, Luff: 6.109m ; Leech: 6.229m ;
- 3, Luff: 9.164m ; Leech: 9.436m ;

Luff Slides

- 1, Position: 0.923m
- 2, Position: 1.822m
- 3, Position: 2.478m
- 4, Position: 3.163m
- 5, Position: 4.071m
- 6, Position: 4.885m
- 7, Position: 5.700m
- 8, Position: 6.514m
- 9, Position: 8.143m
- 10, Position: 8.957m
- 11, Position: 10.588m
- 12, Position: 11.405m

Luff Curve

		Fanned Luff (@ 5.00% [0.195m])	Before BSeam
12.221m,	0.000m	100% (12.221m) :	0.000m
10.698m,	-0.028m	90% (10.999m) :	0.017m
9.165m,	-0.048m	80% (9.777m) :	0.087m
7.629m,	-0.057m	70% (8.555m) :	0.114m
6.110m,	-0.058m	60% (7.333m) :	0.129m
4.553m,	-0.054m	50% (6.111m) :	0.133m
3.055m,	-0.043m	40% (4.888m) :	0.127m
1.523m,	-0.024m	30% (3.666m) :	0.109m
0.000m,	0.000m	20% (2.444m) :	0.080m
		10% (1.222m) :	0.041m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.035m	0.035m	0.035m

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

Total Seam Lengths (m)

Horizontal	25.08
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	28.62	1,2,3,4,5 6,7,8,9,10 11

