

Mainsail: 8000235 Michael Hunter 37 MainsailV2.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: 12/3/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 12.320m
 Leech geodesic: 12.865m
 Foot geodesic: 3.923m
 Head geodesic: 0.115m
 Upper width (MUW): 0.741m
 Three-quarter width (MTW): 1.351m
 Half width (MHW): 2.400m
 Quarter width (MQW): 3.249m
 Foot median: 12.566m
 ORC Mainsail area: 27.789m?
 Surface area: 28.417m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.157m	0.195m	74.235?	9.851m	10.262m	Full
60.000%	2.046m	0.268m	74.235?	7.387m	7.696m	Full
40.000%	1.200m	0.245m	74.235?	4.925m	5.131m	
20.000%	1.200m	0.140m	74.235?	2.462m	2.565m	

Reefing Points

1, Luff: 1.503m ; Leech: 1.549m ; Offset: 0.000m ; Number Eyelets: 3
 2, Luff: 3.387m ; Leech: 3.489m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.079m ; Leech: 3.085m ;
 2, Luff: 6.159m ; Leech: 6.289m ;
 3, Luff: 9.239m ; Leech: 9.521m ;

Luff Slides

1, Position: 0.930m
 2, Position: 1.836m
 3, Position: 2.498m
 4, Position: 3.188m
 5, Position: 4.104m
 6, Position: 4.925m
 7, Position: 5.746m
 8, Position: 6.567m
 9, Position: 8.209m
 10, Position: 9.030m
 11, Position: 10.674m
 12, Position: 11.497m

Luff Curve

		Fanned Luff (@ 5.00% [0.195m])	Before BSeam
12.320m,	0.000m	100% (12.320m) :	0.000m
10.784m,	-0.028m	90% (11.088m) :	0.017m
9.240m,	-0.048m	80% (9.856m) :	0.031m
7.691m,	-0.057m	70% (8.624m) :	0.039m
6.160m,	-0.058m	60% (7.392m) :	0.042m
4.590m,	-0.054m	50% (6.160m) :	0.041m
3.080m,	-0.043m	40% (4.928m) :	0.038m
1.535m,	-0.024m	30% (3.696m) :	0.032m
0.000m,	0.000m	20% (2.464m) :	0.023m
		10% (1.232m) :	0.011m
		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	24.77
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	28.41	1,2,3,4,5 6,7,8,9,10 11

