

Mainsail: 8000117 David Bonito Aquarius mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000117 David\8000117 David

Initial Design Date: 31/1/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	7.326m
Leech geodesic:	7.814m
Foot geodesic:	2.910m
Head geodesic:	0.115m
Upper width (MUW):	0.598m
Three-quarter width (MTW):	1.070m
Half width (MHW):	1.843m
Quarter width (MQW):	2.451m
Foot median:	7.465m
ORC Mainsail area:	12.598m ²
Surface area:	12.956m ²
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	0.918m	0.204m	90.000?	5.777m	6.384m	Full
62.000%	1.629m	0.290m	90.000?	4.113m	4.827m	Full
42.000%	0.730m	0.260m	90.000?	2.455m	3.270m	
22.000%	0.730m	0.160m	90.000?	0.802m	1.713m	

Reefing Points

- 1, Luff: 0.915m ; Leech: 0.948m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 2.014m ; Leech: 2.084m ; Offset: 0.000m ; Number Eyelets: 3
- 3, Luff: 3.296m ; Leech: 3.418m ; Offset: 0.000m ; Number Eyelets: 2

Luff Slides

- 1, Position: 0.622m
- 2, Position: 1.315m
- 3, Position: 1.937m
- 4, Position: 2.753m
- 5, Position: 3.535m
- 6, Position: 4.945m
- 7, Position: 6.551m

Foot Slides

- 1, Position: 0.450m
- 2, Position: 0.952m
- 3, Position: 1.455m
- 4, Position: 1.958m
- 5, Position: 2.460m

Luff Curve

		Fanned Luff (@ 5.00% [0.145m])	Before BSeam
7.326m,	0.000m	100% (7.326m) :	-0.000m
6.413m,	-0.017m	90% (6.594m) :	0.029m
5.494m,	-0.029m	80% (5.861m) :	0.055m
4.574m,	-0.034m	70% (5.128m) :	0.071m
3.663m,	-0.035m	60% (4.396m) :	0.079m
2.730m,	-0.032m	50% (3.663m) :	0.081m
1.831m,	-0.026m	40% (2.930m) :	0.079m
0.913m,	-0.015m	30% (2.198m) :	0.070m
0.000m,	0.000m	20% (1.465m) :	0.054m
		10% (0.733m) :	0.030m
		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	12.27
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	12.92	1,2,3,4,5 6,7

