

Mainsail: 8000114 Daniel Phantom 35 mainV1.des

Fareast Sail / Michael,

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000114 Daniel\8000114 Daniel

Comments:

Initial Design Date: 18/1/2024
Boat:
Phantom 35
Client:
Fareast Sail / Michael,

Design Data
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Main

Measurements

Luff geodesic:	10.612m
Leech geodesic:	11.075m
Foot geodesic:	3.360m
Head geodesic:	0.115m
Upper width (MUW):	0.677m
Three-quarter width (MTW):	1.211m
Half width (MHW):	2.068m
Quarter width (MQW):	2.798m
Foot median:	10.820m
ORC Mainsail area:	20.747m?
Surface area:	21.188m?
Clew height:	0.003m
Mast rake:	0.300m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.062m	0.221m	74.440?	8.485m	8.836m	Full
60.000%	1.768m	0.234m	74.440?	6.363m	6.627m	Full
40.000%	2.405m	0.213m	74.440?	4.240m	4.418m	Full
20.000%	2.935m	0.137m	74.440?	2.118m	2.209m	Full

Reefing Points

- 1, Luff: 1.294m ; Leech: 1.330m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 2.811m ; Leech: 2.890m ; Offset: 0.000m ; Number Eyelets: 3
- 3, Luff: 4.403m ; Leech: 4.530m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

- 1, Luff: 3.501m ; Leech: 3.598m ;
- 2, Luff: 7.003m ; Leech: 7.222m ;

Luff Slides

- 1, Position: 0.747m
- 2, Position: 1.604m
- 3, Position: 2.687m
- 4, Position: 3.533m
- 5, Position: 4.948m
- 6, Position: 5.655m
- 7, Position: 7.070m
- 8, Position: 7.777m
- 9, Position: 9.194m
- 10, Position: 9.903m

Luff Curve

		Fanned Luff (@ 5.00% [0.167m])	Before BSeam
10.612m,	0.000m	100% (10.612m) :	0.000m
9.289m,	-0.025m	90% (9.551m) :	0.015m
7.959m,	-0.042m	80% (8.490m) :	0.027m
6.625m,	-0.050m	70% (7.429m) :	0.034m
5.306m,	-0.050m	60% (6.367m) :	0.036m
3.954m,	-0.047m	50% (5.306m) :	0.035m
2.653m,	-0.037m	40% (4.245m) :	0.033m
1.322m,	-0.021m	30% (3.184m) :	0.028m
0.000m,	0.000m	20% (2.122m) :	0.020m
		10% (1.061m) :	0.010m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.030m	0.030m	0.030m

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

Total Seam Lengths (m)

Horizontal	19.36
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
sailbody	21.19	1,2,3,4,5 6,7,8,9,10

