

Mainsail: 8000114 Daniel Phantom 35 main.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 Phantom 35 main.des

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

Comments:

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: 10.823m
ORC Mainsail area: 20.746m?
Surface area: 21.199m?
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?	4.241m	4.418m	Full
20.000%	2.935m	0.137m	74.440?	2.118m	2.209m	Full

Reefing Points

1, Luff: 1.399m ; Leech: 1.437m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 2.798m ; Leech: 2.876m ; Offset: 0.000m ; Number Eyelets: 3
3, Luff: 4.403m ; Leech: 4.530m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

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

Luff Slides

1, Position: 1.059m
2, Position: 3.179m
3, Position: 5.302m
4, Position: 7.424m
5, Position: 9.548m

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) :	0.036m
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: 1	Split	Radial	Cross
	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	21.21	1,2,3,4,5 6,7,8,9,10

