

Mainsail: 8000107 Dennis-1 Lagoon 380 Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2025 Orders\Need to be Confirmed\8001017 Daniel re

Initial Design Date: 6/2/2025
Boat:
Lagoon 380
Client:

Comments:
tack angle 77deg

Design Data
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Main

Measurements

Luff geodesic: 13.730m
Leech geodesic: 13.595m
Foot geodesic: 5.229m
Head geodesic: 0.075m
Upper width (MUW): 1.327m
Three-quarter width (MTW): 2.382m
Half width (MHW): 3.741m
Quarter width (MQW): 4.555m
Foot median: 13.459m
ORC Mainsail area: 45.921m?
Surface area: 47.045m?
Clew height: 1.118m
Mast rake: 0.914m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
87.459%	1.606m	0.813m	78.500?	12.027m	11.823m	Full
72.529%	2.834m	1.213m	78.000?	10.029m	9.805m	Full
55.503%	3.657m	1.152m	77.000?	7.785m	7.503m	Full
35.859%	4.335m	0.855m	76.000?	5.226m	4.848m	Full
16.084%	4.823m	0.410m	75.281?	2.664m	2.174m	Full

Reefing Points

1, Luff: 2.056m ; Leech: 2.017m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 4.113m ; Leech: 4.030m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 4.525m ; Leech: 3.739m ;
2, Luff: 9.055m ; Leech: 8.358m ;

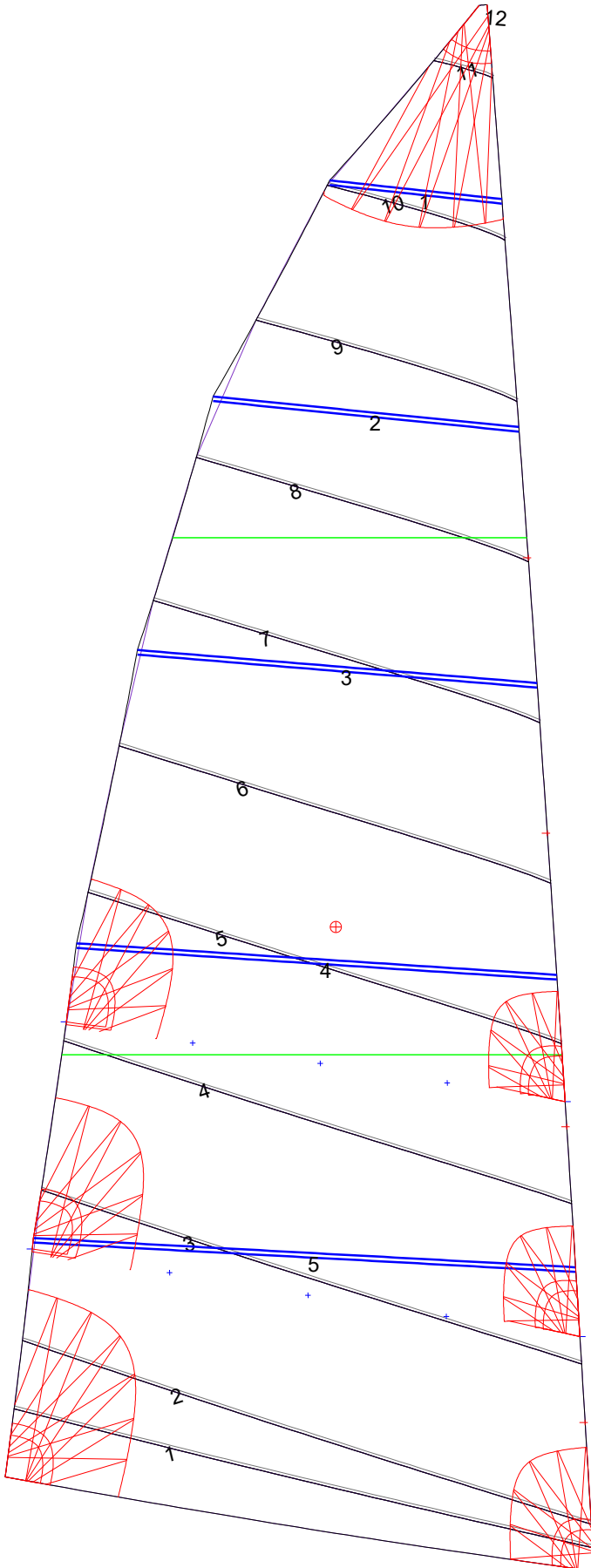
Luff Slides

1, Position: 1.304m
2, Position: 3.895m
3, Position: 6.467m
4, Position: 8.879m

Luff Curve

		Fanned Luff (@ 5.00% [0.258m])	Before BSeam
13.730m,	0.000m	100% (13.730m) :	0.000m
10.297m,	-0.023m	90% (12.358m) :	-0.009m
6.865m,	-0.031m	80% (10.984m) :	0.009m
3.432m,	-0.023m	70% (9.611m) :	0.020m
0.000m,	0.000m	60% (8.238m) :	0.021m
		50% (6.865m) :	0.020m
		40% (5.492m) :	0.018m
		30% (4.119m) :	0.014m
		20% (2.746m) :	0.009m
		10% (1.374m) :	0.003m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000m	0.000m	0.025m

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

Total Seam Lengths (m)

Horizontal	40.48
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	46.97	1,2,3,4,5 6,7,8,9,10 11,12