

Mainsail: 8001017 Daniel Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001017 Daniel m

Initial Design Date: 12/11/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	6.770m
Leech geodesic:	7.327m
Foot geodesic:	2.920m
Head geodesic:	0.105m
Upper width (MUW):	0.562m
Three-quarter width (MTW):	1.028m
Half width (MHW):	1.805m
Quarter width (MQW):	2.423m
Foot median:	6.990m
ORC Mainsail area:	11.450m?
Surface area:	11.873m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.914m	0.184m	68.725?	5.412m	5.840m	Full
60.000%	1.575m	0.248m	68.725?	4.058m	4.380m	Full
40.000%	2.112m	0.219m	68.725?	2.705m	2.920m	Full
20.000%	2.547m	0.124m	68.725?	1.353m	1.460m	Full

Reefing Points

- 1, Luff: 0.812m ; Leech: 0.852m ; Offset: 0.000m ; Number Eyelets: 2
- 2, Luff: 1.658m ; Leech: 1.738m ; Offset: 0.000m ; Number Eyelets: 2

Luff Slides

- 1, Position: 0.472m
- 2, Position: 0.988m
- 3, Position: 1.858m
- 4, Position: 2.254m
- 5, Position: 3.156m
- 6, Position: 3.607m
- 7, Position: 4.510m
- 8, Position: 4.961m
- 9, Position: 5.864m
- 10, Position: 6.317m

Luff Curve

		Fanned Luff (@ 5.00% [0.146m])	Before BSeam
6.770m,	0.000m	100% (6.770m) :	0.000m
5.926m,	-0.016m	90% (6.093m) :	0.010m
5.077m,	-0.027m	80% (5.416m) :	0.018m
4.226m,	-0.032m	70% (4.739m) :	0.023m
3.385m,	-0.032m	60% (4.062m) :	0.024m
2.522m,	-0.030m	50% (3.385m) :	0.024m
1.692m,	-0.024m	40% (2.708m) :	0.022m
0.844m,	-0.014m	30% (2.031m) :	0.018m
0.000m,	0.000m	20% (1.354m) :	0.013m
		10% (0.677m) :	0.006m
		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	11.58
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	11.84	1,2,3,4,5 6,7

