

Mainsail: 8001107 Chris-1 mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001107 Chris sur

Initial Design Date: 16/11/2024
Boat:
Sunfish
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 4.370m
Leech geodesic: 4.840m
Foot geodesic: 3.220m
Head geodesic: 0.010m
Upper width (MUW): 0.488m
Three-quarter width (MTW): 0.959m
Half width (MHW): 1.816m
Quarter width (MQW): 2.568m
Foot median: 4.419m
ORC Mainsail area: 7.603m?
Surface area: 7.912m?
Clew height: 0.359m
Mast rake: 0.500m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.714%	0.845m	0.122m	62.303?	3.518m	3.886m	Full
58.318%	0.700m	0.158m	62.303?	2.536m	2.808m	
34.733%	0.700m	0.115m	62.303?	1.506m	1.672m	

Reefing Points

1, Luff: 1.000m ; Leech: 1.001m ; Offset: 0.000m ; Number Eyelets: 1

Draft Stripes

1, Luff: 2.164m ; Leech: 2.103m ;

Luff Slides

- 1, Position: 0.365m
- 2, Position: 0.729m
- 3, Position: 1.130m
- 4, Position: 1.475m
- 5, Position: 1.821m
- 6, Position: 2.185m
- 7, Position: 2.549m
- 8, Position: 2.913m
- 9, Position: 3.277m
- 10, Position: 3.641m
- 11, Position: 4.005m

Luff Curve

		Fanned Luff (@ 5.00% [0.160m])	Before BSeam
4.368m,	0.000m	100% (4.370m) :	-0.000m
3.277m,	-0.071m	90% (3.935m) :	0.040m
2.184m,	-0.098m	80% (3.495m) :	0.078m
1.092m,	-0.078m	70% (3.060m) :	0.107m
0.561m,	-0.045m	60% (2.622m) :	0.126m
0.000m,	0.000m	50% (2.185m) :	0.134m
		40% (1.747m) :	0.132m
		30% (1.310m) :	0.118m
		20% (0.872m) :	0.091m
		10% (0.438m) :	0.050m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.015m	0.015m	0.015m

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

Total Seam Lengths (m)

Horizontal	5.80
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Sailbody	7.85	4,3,2,1

