

Mainsail: 7000328 Stephen-1 Mainsail.des

Design Info
=====

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000328 Stephen\7000328 Stephen-1 Mainsail.des

Initial Design Date: 27/5/2023
Boat:

Comments:

Client:

Design Data
=====

Main

Measurements

Luff geodesic:	10.812m
Leech geodesic:	11.315m
Foot geodesic:	3.658m
Head geodesic:	0.115m
Upper width (MUW):	0.729m
Three-quarter width (MTW):	1.325m
Half width (MHW):	2.319m
Quarter width (MQW):	3.065m
Foot median:	11.054m
ORC Mainsail area:	23.245m?
Surface area:	23.854m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.060m	0.231m	71.759?	8.882m	9.246m	Full
62.000%	1.936m	0.328m	71.759?	6.740m	6.991m	Full
41.500%	2.634m	0.292m	71.759?	4.545m	4.679m	Full
21.000%	3.184m	0.174m	71.759?	2.349m	2.368m	Full

Reefing Points

1, Luff: 1.622m ; Leech: 1.672m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 3.244m ; Leech: 3.344m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.568m ; Leech: 3.600m ;
2, Luff: 7.136m ; Leech: 7.334m ;

Luff Slides

1, Position: 0.664m
2, Position: 1.334m
3, Position: 3.019m
4, Position: 3.813m
5, Position: 5.277m
6, Position: 6.008m
7, Position: 7.454m
8, Position: 8.168m
9, Position: 9.525m
10, Position: 10.169m

Luff Curve

		Fanned Luff (@ 5.00% [0.182m])	Before BSeam
10.812m,	0.000m	100% (10.812m) :	0.000m
9.464m,	-0.025m	90% (9.731m) :	0.042m
8.109m,	-0.043m	80% (8.650m) :	0.081m
6.750m,	-0.050m	70% (7.568m) :	0.112m
5.406m,	-0.051m	60% (6.487m) :	0.128m
4.028m,	-0.048m	50% (5.406m) :	0.130m
2.703m,	-0.038m	40% (4.325m) :	0.119m
1.347m,	-0.022m	30% (3.244m) :	0.096m
0.000m,	0.000m	20% (2.162m) :	0.067m
		10% (1.081m) :	0.033m
		0% (0.000m) :	0.000m

Mainsail: 7000328 Stephen-1 Mainsail.des

Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m
Zone: 4	0.025m	0.015m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	6.78
Radial/Vertical	64.60
Bi-Radial Split	2.93

Materials

Material	Area (m ²)	Panels
Material 1	23.89	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,2\1 2\2,2\3,2\4,2\5,2\6 3\1,3\2,3\3,3\4,3\5 4\1,4\2,4\3,4\4

