

Mainsail: 7000328 Stephen-1 MainsailV2.des

Design Info
=====

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000328 Stephen\7000328 Stephen-1 MainsailV2.des

Initial Design Date: 27/5/2023
Boat:

Comments:

Client:

Design Data
=====

Main

Measurements

Luff geodesic: 10.790m
Leech geodesic: 11.294m
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: 11.032m
ORC Mainsail area: 23.197m?
Surface area: 23.806m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.060m	0.231m	71.759?	8.864m	9.229m	Full
62.000%	1.936m	0.328m	71.759?	6.726m	6.978m	Full
41.500%	2.634m	0.292m	71.759?	4.534m	4.671m	Full
21.000%	3.184m	0.174m	71.759?	2.343m	2.364m	Full

Reefing Points

1, Luff: 1.619m ; Leech: 1.669m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 3.237m ; Leech: 3.337m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.561m ; Leech: 3.593m ;
2, Luff: 7.121m ; Leech: 7.320m ;

Luff Slides

1, Position: 0.662m
2, Position: 1.331m
3, Position: 3.012m
4, Position: 3.805m
5, Position: 5.266m
6, Position: 5.996m
7, Position: 7.439m
8, Position: 8.152m
9, Position: 9.506m
10, Position: 10.148m

Luff Curve

		Fanned Luff (@ 5.00% [0.182m])	Before BSeam
10.790m,	0.000m	100% (10.790m) :	0.000m
9.445m,	-0.025m	90% (9.711m) :	0.013m
8.092m,	-0.043m	80% (8.632m) :	0.025m
6.736m,	-0.050m	70% (7.553m) :	0.032m
5.395m,	-0.051m	60% (6.474m) :	0.034m
4.020m,	-0.048m	50% (5.395m) :	0.033m
2.697m,	-0.038m	40% (4.316m) :	0.030m
1.345m,	-0.022m	30% (3.237m) :	0.025m
0.000m,	0.000m	20% (2.158m) :	0.018m
		10% (1.079m) :	0.009m
		0% (0.000m) :	0.000m

Mainsail: 7000328 Stephen-1 MainsailV2.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
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	6.78
Radial/Vertical	64.50
Bi-Radial Split	2.92

Materials

Material	Area (m ²)	Panels
Material 1	23.84	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

