

Mainsail: 8000329 Mark-1 fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000329 Mark main

Initial Design Date: 30/3/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	11.137m
Leech geodesic:	11.814m
Foot geodesic:	4.108m
Head geodesic:	0.115m
Upper width (MUW):	0.817m
Three-quarter width (MTW):	1.484m
Half width (MHW):	2.586m
Quarter width (MQW):	3.439m
Foot median:	11.427m
ORC Mainsail area:	26.808m ²
Surface area:	27.617m ²
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.198m	0.263m	71.645?	9.126m	9.646m	Full
62.000%	2.157m	0.358m	71.645?	6.899m	7.294m	Full
42.000%	2.934m	0.326m	71.645?	4.673m	4.941m	Full
22.000%	3.544m	0.188m	71.645?	2.448m	2.588m	Full

Reefing Points

- 1, Luff: 1.358m ; Leech: 1.411m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 2.950m ; Leech: 3.061m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

- 1, Luff: 3.674m ; Leech: 3.729m ;
- 2, Luff: 7.348m ; Leech: 7.608m ;

Luff Slides

- 1, Position: 0.816m
- 2, Position: 1.632m
- 3, Position: 3.271m
- 4, Position: 3.992m
- 5, Position: 5.416m
- 6, Position: 6.159m
- 7, Position: 7.643m
- 8, Position: 8.385m
- 9, Position: 9.797m
- 10, Position: 10.467m

Luff Curve

		Fanned Luff (@ 5.00% [0.205m])	Before BSeam
11.136m,	0.000m	100% (11.137m) :	0.000m
9.749m,	-0.038m	90% (10.024m) :	0.057m
8.352m,	-0.063m	80% (8.910m) :	0.103m
6.952m,	-0.071m	70% (7.796m) :	0.132m
5.568m,	-0.071m	60% (6.682m) :	0.146m
4.149m,	-0.065m	50% (5.569m) :	0.148m
2.784m,	-0.052m	40% (4.455m) :	0.140m
1.388m,	-0.029m	30% (3.341m) :	0.119m
0.000m,	0.000m	20% (2.227m) :	0.087m
		10% (1.114m) :	0.044m
		0% (0.000m) :	0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.032m	0.016m	0.032m
Zone: 1/b	0.032m	0.016m	0.032m
Zone: 2/a	0.032m	0.016m	0.032m
Zone: 2/b	0.032m	0.016m	0.032m
Zone: 3	0.032m	0.016m	0.032m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	5.37
Radial/Vertical	115.87
Bi-Radial Split	7.65

Materials

Material	Area (m ²)	Panels
Material 1	27.64	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,2\1 2\2,2\3,2\4,2\5,2b\1 2b\2,2b\3,2b\4,2b\5,3\1 3\2,3\3,3\4,3\5,3\6

