

Mainsail: 8000531 Craig Matzcrafft 35 fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000531 Craig Ma

Initial Design Date: 19/6/2024
Boat:
Matzcrafft 35
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 11.434m
Leech geodesic: 11.979m
Foot geodesic: 3.762m
Head geodesic: 0.115m
Upper width (MUW): 0.741m
Three-quarter width (MTW): 1.346m
Half width (MHW): 2.343m
Quarter width (MQW): 3.135m
Foot median: 11.674m
ORC Mainsail area: 25.058m?
Surface area: 25.648m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.168m	0.240m	73.707?	9.142m	9.551m	Full
60.000%	2.021m	0.311m	73.707?	6.856m	7.164m	Full
40.000%	2.714m	0.266m	73.707?	4.570m	4.776m	Full
20.000%	3.284m	0.150m	73.707?	2.285m	2.388m	Full

Reefing Points

1, Luff: 1.395m ; Leech: 1.438m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 2.915m ; Leech: 3.004m ; Offset: 0.000m ; Number Eyelets: 3
3, Luff: 4.858m ; Leech: 5.008m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.772m ; Leech: 3.812m ;
2, Luff: 7.545m ; Leech: 7.755m ;

Luff Slides

1, Position: 0.854m
2, Position: 1.754m
3, Position: 2.806m
4, Position: 3.808m
5, Position: 5.332m
6, Position: 6.094m
7, Position: 7.618m
8, Position: 8.380m
9, Position: 9.906m
10, Position: 10.670m

Luff Curve

		Fanned Luff (@ 5.00% [0.187m])	Before BSeam
11.434m,	0.000m	100% (11.434m) :	0.000m
10.009m,	-0.026m	90% (10.291m) :	0.044m
8.575m,	-0.045m	80% (9.147m) :	0.081m
7.138m,	-0.053m	70% (8.004m) :	0.107m
5.717m,	-0.054m	60% (6.860m) :	0.121m
4.260m,	-0.050m	50% (5.717m) :	0.124m
2.858m,	-0.040m	40% (4.574m) :	0.119m
1.425m,	-0.023m	30% (3.430m) :	0.103m
0.000m,	0.000m	20% (2.287m) :	0.076m
		10% (1.143m) :	0.038m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.030m	0.030m	0.030m

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

Total Seam Lengths (m)

Horizontal	22.80
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	25.63	1,2,3,4,5 6,7,8,9,10 11

