

Mainsail: 8000705 Matthew Wauquiez 43 ccMainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000705 Matthew

Initial Design Date: 10/7/2024
Boat:
Wauquiez 43 Ketch
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 13.720m
Leech geodesic: 14.127m
Foot geodesic: 4.300m
Head geodesic: 0.135m
Upper width (MUW): 0.783m
Three-quarter width (MTW): 1.424m
Half width (MHW): 2.559m
Quarter width (MQW): 3.494m
Foot median: 13.883m
ORC Mainsail area: 33.254m?
Surface area: 33.846m?
Clew height: 0.275m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.218m	0.203m	73.013?	11.028m	11.288m	Full
60.000%	2.179m	0.296m	73.013?	8.337m	8.466m	Full
40.000%	2.990m	0.268m	73.013?	5.646m	5.644m	Full
20.000%	3.677m	0.156m	73.013?	2.954m	2.822m	Full

Reefing Points

1, Luff: 2.058m ; Leech: 2.092m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 4.116m ; Leech: 4.186m ; Offset: 0.000m ; Number Eyelets: 3
3, Luff: 6.174m ; Leech: 6.284m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 4.528m ; Leech: 4.396m ;
2, Luff: 9.055m ; Leech: 9.117m ;

Luff Slides

1, Position: 0.892m
2, Position: 1.784m
3, Position: 3.862m
4, Position: 4.758m
5, Position: 6.550m
6, Position: 7.446m
7, Position: 9.239m
8, Position: 10.135m
9, Position: 11.928m
10, Position: 12.824m

Luff Curve

		Fanned Luff (@ 5.00% [0.214m])	Before BSeam
13.720m,	0.000m	100% (13.720m) :	0.000m
10.290m,	-0.009m	90% (12.348m) :	0.022m
6.860m,	-0.012m	80% (10.976m) :	0.041m
3.430m,	-0.009m	70% (9.604m) :	0.057m
0.000m,	0.000m	60% (8.232m) :	0.066m
		50% (6.860m) :	0.070m
		40% (5.488m) :	0.068m
		30% (4.116m) :	0.057m
		20% (2.744m) :	0.040m
		10% (1.372m) :	0.020m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.040m	0.040m	0.040m

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

Total Seam Lengths (m)

Horizontal	29.10
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	33.88	1,2,3,4,5 6,7,8,9,10 11,12

