

Mainsail: 8000113 Matthias Etap 32sEtap 32s Std Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000113 Matthias

Initial Design Date: 18/1/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	9.360m
Leech geodesic:	9.610m
Foot geodesic:	3.750m
Head geodesic:	0.115m
Upper width (MUW):	0.720m
Three-quarter width (MTW):	1.321m
Half width (MHW):	2.319m
Quarter width (MQW):	3.112m
Foot median:	9.424m
ORC Mainsail area:	20.324m?
Surface area:	20.870m?
Clew height:	0.426m
Mast rake:	0.300m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.700m	0.253m	76.240?	7.469m	7.648m	
60.000%	1.050m	0.329m	76.240?	5.600m	5.736m	
40.000%	1.050m	0.290m	76.240?	3.732m	3.824m	
20.000%	0.900m	0.168m	76.240?	1.865m	1.912m	

Reefing Points

- 1, Luff: 1.139m ; Leech: 1.152m ; Offset: 0.000m ; Number Eyelets: 0
- 2, Luff: 2.476m ; Leech: 2.501m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

- 1, Luff: 3.083m ; Leech: 2.778m ;
- 2, Luff: 6.171m ; Leech: 6.040m ;

Luff Slides

- 1, Position: 0.661m
- 2, Position: 1.460m
- 3, Position: 2.132m
- 4, Position: 2.833m
- 5, Position: 3.570m
- 6, Position: 4.307m
- 7, Position: 5.044m
- 8, Position: 5.781m
- 9, Position: 6.518m
- 10, Position: 7.256m
- 11, Position: 7.993m
- 12, Position: 8.730m

Luff Curve

		Fanned Luff (@ 5.00% [0.186m])	Before BSeam
9.360m,	0.000m	100% (9.360m) :	0.000m 0.000m
8.193m,	-0.022m	90% (8.425m) :	0.013m 0.041m
7.020m,	-0.037m	80% (7.488m) :	0.023m 0.076m
5.843m,	-0.044m	70% (6.552m) :	0.028m 0.100m
4.680m,	-0.044m	60% (5.616m) :	0.030m 0.113m
3.488m,	-0.041m	50% (4.680m) :	0.029m 0.116m
2.340m,	-0.033m	40% (3.744m) :	0.026m 0.111m
1.166m,	-0.019m	30% (2.808m) :	0.022m 0.094m
0.000m,	0.000m	20% (1.872m) :	0.016m 0.067m
		10% (0.937m) :	0.007m 0.031m
		0% (0.000m) :	0.000m 0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.025m	0.025m	0.025m

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

Total Seam Lengths (m)

Horizontal	15.92
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	20.88	1,2,3,4,5 6,7,8

