

Mainsail: 8000113 Matthias Etap 32sEtap 32s Std MainsailV1.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: 23/1/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 9.450m
 Leech geodesic: 9.700m
 Foot geodesic: 3.780m
 Head geodesic: 0.115m
 Upper width (MUW): 0.721m
 Three-quarter width (MTW): 1.327m
 Half width (MHW): 2.336m
 Quarter width (MQW): 3.143m
 Foot median: 9.508m
 ORC Mainsail area: 20.678m?
 Surface area: 21.217m?
 Clew height: 0.431m
 Mast rake: 0.300m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
78.748%	0.750m	0.253m	90.000?	7.186m	7.599m	
58.795%	1.050m	0.329m	90.000?	5.114m	5.673m	
38.185%	1.050m	0.290m	90.000?	2.980m	3.685m	
18.205%	0.900m	0.168m	90.000?	0.917m	1.757m	

Reefing Points

1, Luff: 1.800m ; Leech: 1.947m ; Offset: 0.000m ; Number Eyelets: 0
 2, Luff: 3.700m ; Leech: 3.919m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 3.113m ; Leech: 2.803m ;
 2, Luff: 6.231m ; Leech: 6.099m ;

Luff Slides

1, Position: 0.667m
 2, Position: 1.474m
 3, Position: 2.153m
 4, Position: 2.860m
 5, Position: 3.604m
 6, Position: 4.349m
 7, Position: 5.093m
 8, Position: 5.837m
 9, Position: 6.581m
 10, Position: 7.325m
 11, Position: 8.070m
 12, Position: 8.814m

Luff Curve

		Fanned Luff (@ 5.00% [0.187m])	Before BSeam
9.450m,	0.000m	100% (9.450m) :	0.000m -0.000m
8.272m,	-0.022m	90% (8.506m) :	0.013m 0.041m
7.087m,	-0.037m	80% (7.560m) :	0.024m 0.077m
5.899m,	-0.044m	70% (6.615m) :	0.029m 0.101m
4.725m,	-0.044m	60% (5.670m) :	0.031m 0.114m
3.521m,	-0.041m	50% (4.725m) :	0.031m 0.117m
2.362m,	-0.033m	40% (3.780m) :	0.028m 0.112m
1.178m,	-0.019m	30% (2.835m) :	0.023m 0.095m
0.000m,	0.000m	20% (1.890m) :	0.016m 0.067m
		10% (0.946m) :	0.007m 0.032m
		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	19.31
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	21.21	1,2,3,4,5 6,7,8,9

