

Mainsail: 7000509 Andrea Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000509 Andrea\7000

Initial Design Date: 17/5/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	13.167m
Leech geodesic:	13.646m
Foot geodesic:	3.960m
Head geodesic:	0.135m
Upper width (MUW):	0.803m
Three-quarter width (MTW):	1.456m
Half width (MHW):	2.516m
Quarter width (MQW):	3.321m
Foot median:	13.409m
ORC Mainsail area:	30.759m?
Surface area:	31.409m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.832m	0.272m	73.712?	10.552m	10.887m	
60.000%	1.188m	0.353m	73.712?	7.940m	8.165m	
40.000%	1.188m	0.311m	73.712?	5.327m	5.443m	
20.000%	0.990m	0.180m	73.712?	2.715m	2.722m	

Reefing Points

- 1, Luff: 1.974m ; Leech: 2.022m ; Offset: 0.000m ; Number Eyelets: 2
- 2, Luff: 3.949m ; Leech: 4.045m ; Offset: 0.000m ; Number Eyelets: 2
- 3, Luff: 5.924m ; Leech: 6.071m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 4.344m ; Leech: 4.372m ;
- 2, Luff: 8.689m ; Leech: 8.879m ;

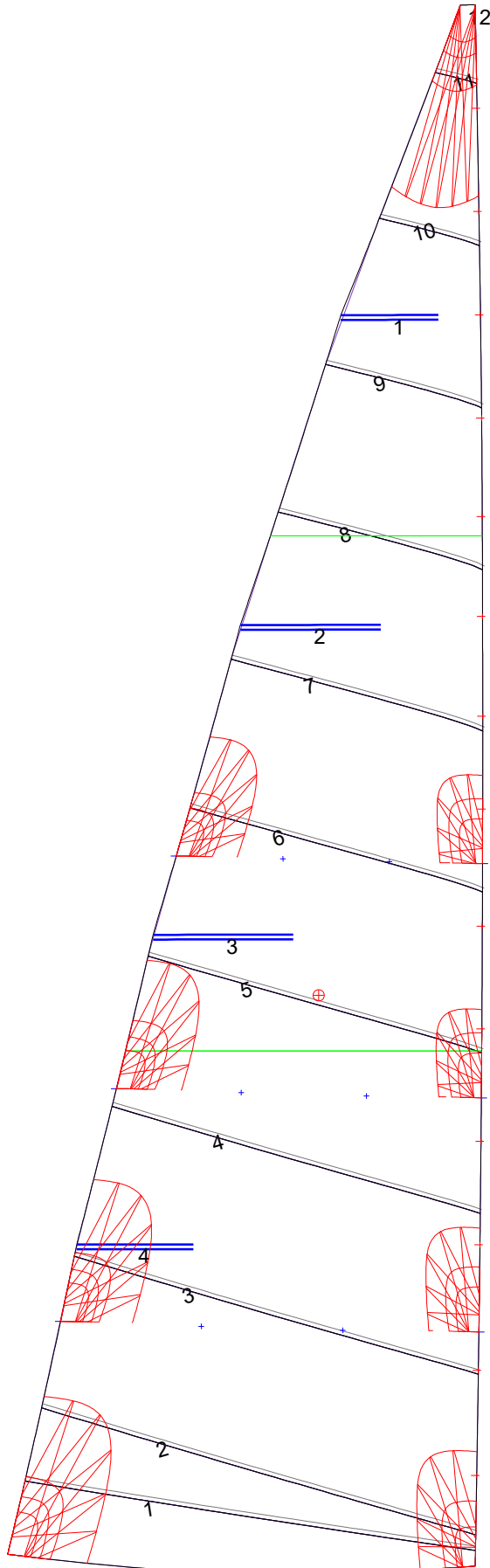
Luff Slides

- 1, Position: 0.764m
- 2, Position: 1.652m
- 3, Position: 2.710m
- 4, Position: 3.581m
- 5, Position: 4.531m
- 6, Position: 5.395m
- 7, Position: 6.383m
- 8, Position: 7.168m
- 9, Position: 8.009m
- 10, Position: 8.851m
- 11, Position: 9.680m
- 12, Position: 10.551m
- 13, Position: 11.423m
- 14, Position: 12.295m

Luff Curve

		Fanned Luff (@ 5.00% [0.197m])	Before BSeam
13.166m,	0.000m	100% (13.167m) :	0.000m
11.526m,	-0.030m	90% (11.851m) :	0.016m
9.875m,	-0.052m	80% (10.534m) :	0.031m
8.220m,	-0.061m	70% (9.217m) :	0.039m
6.583m,	-0.063m	60% (7.900m) :	0.042m
4.906m,	-0.058m	50% (6.584m) :	0.041m
3.292m,	-0.046m	40% (5.267m) :	0.038m
1.641m,	-0.026m	30% (3.950m) :	0.032m
0.000m,	0.000m	20% (2.633m) :	0.024m
		10% (1.317m) :	0.012m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.036m	0.036m	0.036m

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

Total Seam Lengths (m)

Horizontal	27.37
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	31.44	1,2,3,4,5 6,7,8,9,10 11,12