

Mainsail: 7000527 Noah-1 Seasprite 23 Mainsail.des Fareastsails/ Michael

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000527 Noah\70005

Initial Design Date: 8/6/2023
Boat:
Seasprite 23
Client:
Fareastsails/ Michael

Comments:

Design Data
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Main

Measurements

Luff geodesic: 25.469Ft
Leech geodesic: 27.245Ft
Foot geodesic: 10.499Ft
Head geodesic: 0.377Ft
Upper width (MUW): 2.085Ft
Three-quarter width (MTW): 3.758Ft
Half width (MHW): 6.501Ft
Quarter width (MQW): 8.677Ft
Foot median: 26.269Ft
ORC Mainsail area: 155.250Ft?
Surface area: 160.407Ft?
Clew height: 0.328Ft
Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.804Ft	0.639Ft	90.000?	20.008Ft	22.247Ft	
62.000%	2.723Ft	0.830Ft	90.000?	14.152Ft	16.821Ft	
41.500%	2.723Ft	0.731Ft	90.000?	8.168Ft	11.259Ft	
21.000%	2.723Ft	0.422Ft	90.000?	2.206Ft	5.697Ft	

Reefing Points

1, Luff: 3.819Ft ; Leech: 4.002Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

1, Luff: 8.402Ft ; Leech: 8.592Ft ;
2, Luff: 16.806Ft ; Leech: 17.571Ft ;

Luff Slides

1, Position: 2.314Ft
2, Position: 4.868Ft
3, Position: 6.739Ft
4, Position: 8.676Ft
5, Position: 10.698Ft
6, Position: 12.734Ft
7, Position: 14.888Ft
8, Position: 17.041Ft
9, Position: 19.194Ft
10, Position: 21.347Ft
11, Position: 23.501Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.523Ft])	Before BSeam
25.468Ft,	0.000Ft	100% (25.469Ft) :	0.000Ft
22.294Ft,	-0.069Ft	90% (22.923Ft) :	0.118Ft
19.101Ft,	-0.114Ft	80% (20.375Ft) :	0.230Ft
15.900Ft,	-0.131Ft	70% (17.829Ft) :	0.298Ft
12.734Ft,	-0.132Ft	60% (15.282Ft) :	0.323Ft
9.490Ft,	-0.122Ft	50% (12.735Ft) :	0.321Ft
6.367Ft,	-0.098Ft	40% (10.188Ft) :	0.291Ft
3.174Ft,	-0.056Ft	30% (7.641Ft) :	0.237Ft
0.000Ft,	0.000Ft	20% (5.094Ft) :	0.163Ft
		10% (2.547Ft) :	0.078Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.082Ft	0.049Ft	0.082Ft
Zone: 1/b	0.082Ft	0.049Ft	0.082Ft
Zone: 2	0.082Ft	0.049Ft	0.082Ft
Zone: 3	0.082Ft	0.049Ft	0.082Ft
Zone: 4	0.082Ft	0.049Ft	0.082Ft

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft

Total Seam Lengths (Ft)

Horizontal	19.26
Radial/Vertical	160.23
Bi-Radial Split	7.05

Materials

Material	Area (Ft ²)	Panels
Material 1	160.67	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,2\1 2\2,2\3,2\4,2\5,2\6 3\1,3\2,3\3,3\4,3\5 4\1,4\2,4\3,4\4

