

# Mainsail: 8000208 Mike Nonsuch 30 ccmainsV4.des

## Far East Sails / Michael

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000208 Mike Nor

Initial Design Date: 3/4/2024  
Boat:  
Nonsuch 30  
Client:  
Far East Sails / Michael

Comments:  
Nonsuch 30, unstayed rig, cc main, 56.279 m2 /605.78 sq.ft.  
Material: 7.48 oz dacron, 54"  
P = 44.50 ft, E = 24.0 ft (loose foot)  
Luff = 43.89 ft, Leech =47.25ft  
Foot = 23.76 ft  
tack angle = 82.27 degrees  
4 partial horizontal battens. Lengths, from top:  
40, 55", 55", 45"  
13.5 cm head board  
2 reefs @ 4'3"+ 9'1" above tack, and  
5'0" + 11'0" above clew  
No interm. rf. pts.  
seams = 1" , taped leech (no fold over)  
Stack patches  
cunningham (13" up)  
2 x draft stripes @ 33 + 66%% heights

Design Data  
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Main

Measurements

Luff geodesic: 43.888Ft  
Leech geodesic: 47.251Ft  
Foot geodesic: 23.760Ft  
Head geodesic: 0.443Ft  
Upper width (MUW): 4.018Ft  
Three-quarter width (MTW): 7.658Ft  
Half width (MHW): 14.039Ft  
Quarter width (MQW): 19.305Ft  
Foot median: 44.931Ft  
ORC Mainsail area: 582.462Ft?  
Surface area: 605.792Ft?  
Clew height: 2.695Ft  
Mast rake: 1.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	3.333Ft	1.325Ft	61.206?	35.650Ft	37.588Ft	
60.000%	4.583Ft	1.575Ft	61.206?	27.411Ft	28.191Ft	
40.000%	4.583Ft	1.242Ft	61.206?	19.173Ft	18.794Ft	
20.000%	3.750Ft	0.709Ft	61.206?	10.935Ft	9.397Ft	

Reefing Points

1, Luff: 4.250Ft ; Leech: 4.994Ft ; Offset: 0.000Ft ; Number Eyelets: 0  
2, Luff: 9.082Ft ; Leech: 10.995Ft ; Offset: 0.000Ft ; Number Eyelets: 0

Draft Stripes

1, Luff: 14.429Ft ; Leech: 13.025Ft ;  
2, Luff: 28.903Ft ; Leech: 29.249Ft ;

Luff Slides

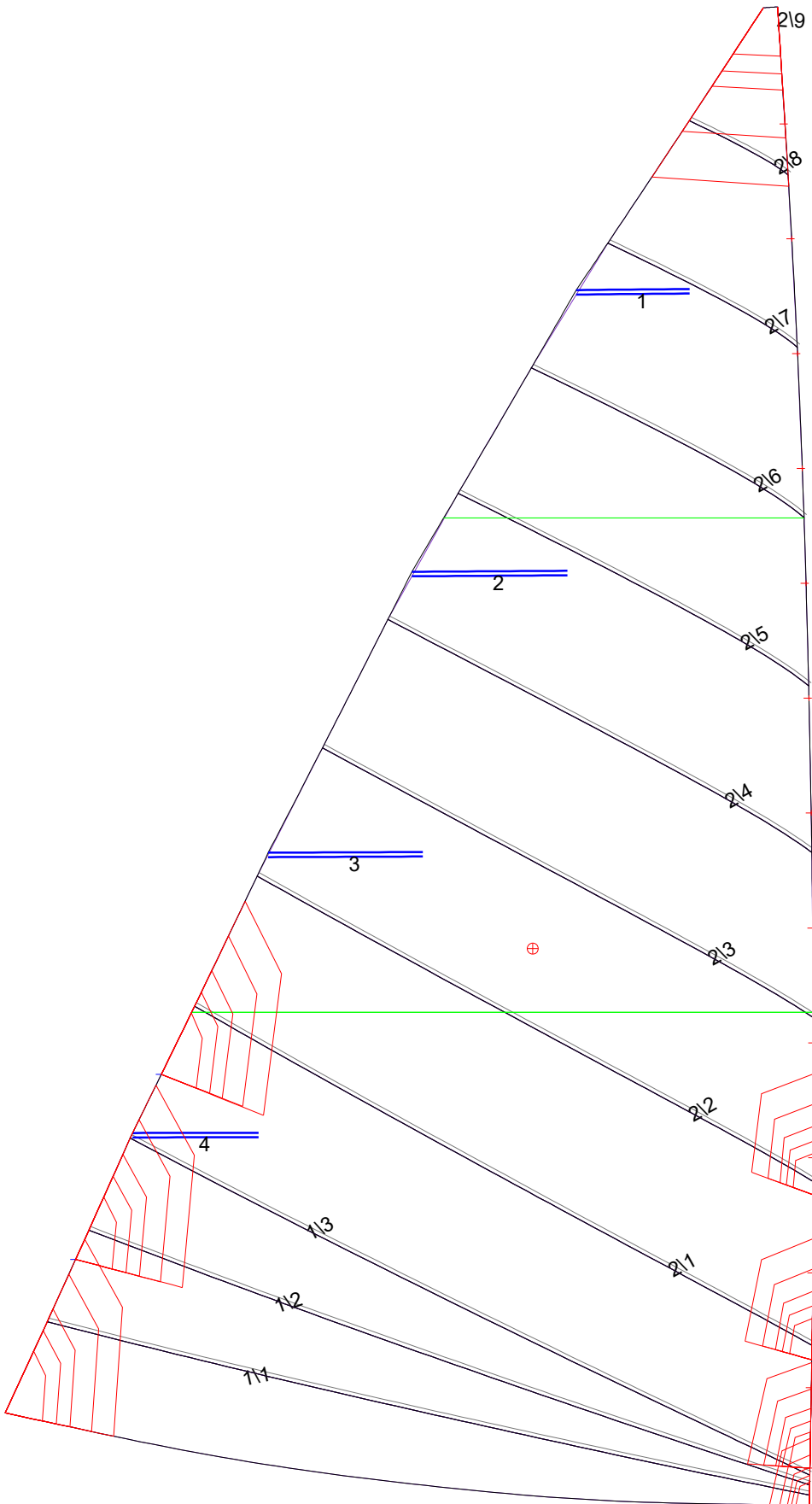
1, Position: 3.436Ft  
2, Position: 6.801Ft  
3, Position: 10.166Ft  
4, Position: 13.531Ft  
5, Position: 16.896Ft  
6, Position: 20.261Ft  
7, Position: 23.627Ft  
8, Position: 26.992Ft  
9, Position: 30.357Ft  
10, Position: 33.722Ft  
11, Position: 37.087Ft  
12, Position: 40.452Ft

Luff Curve

		Fanned Luff (@ 5.00% [1.178Ft])	Before BSeam
43.880Ft,	0.000Ft	100% (43.887Ft) :	0.000Ft
38.437Ft,	-0.224Ft	90% (39.507Ft) :	0.300Ft
32.910Ft,	-0.389Ft	80% (35.108Ft) :	0.573Ft
21.940Ft,	-0.489Ft	70% (30.724Ft) :	0.775Ft
10.970Ft,	-0.362Ft	60% (26.333Ft) :	0.895Ft
5.359Ft,	-0.202Ft	50% (21.944Ft) :	0.921Ft
0.000Ft,	0.000Ft	40% (17.554Ft) :	0.862Ft
		30% (13.166Ft) :	0.728Ft
		20% (8.774Ft) :	0.532Ft
		10% (4.394Ft) :	0.280Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances			
	Split	Radial	Cross
Zone: 1	0.115Ft	0.115Ft	0.115Ft
Zone: 2	0.115Ft	0.115Ft	0.115Ft

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

### Total Seam Lengths (Ft)

Horizontal	171.51
Radial/Vertical	0.00
Bi-Radial Split	0.00

### Materials

Material	Area (Ft <sup>2</sup> )	Panels
8oz p	484.96	2/1,2/2,2/3,2/4,2/5
Material 2	120.22	2/6,2/7,2/8,2/9
		1/1,1/2,1/3