

# Mainsail: 8000208 Mike Nonsuch 30 ccmainsV2.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: 28/3/2024  
Boat:  
Nonsuch 30  
Client:  
Far East Sails / Michael

Comments:  
Nonsuch 30, unstayed rig, cc main, 55.6 m2 /598.57 sq.ft.  
Material: 7.48 oz dacron, 54"  
P = 44.75 ft, E = 24.0 ft (loose foot)  
Luff = 44.30 ft, Leech =45.97ft  
Foot = 23.76 ft  
tack angle = 78 degrees  
4 partial horizontal battens. Lengths, from top:  
40, 55", 55", 45"  
13.5 cm head board  
2 reefs @ 64" + 130" above tack, and  
87" + 171" above clew  
No interm. rf. pts.  
seams = 1" , taped leech (no fold over)  
Stack patches, 2 reefs @4.25ft /9.083ft from tack  
cunningham (13" up)  
2 x draft stripes @ 33 + 66%% heights

Design Data  
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### Main

#### Measurements

Luff geodesic: 44.055Ft  
Leech geodesic: 45.765Ft  
Foot geodesic: 23.760Ft  
Head geodesic: 0.443Ft  
Upper width (MUW): 3.948Ft  
Three-quarter width (MTW): 7.555Ft  
Half width (MHW): 13.894Ft  
Quarter width (MQW): 19.130Ft  
Foot median: 44.032Ft  
ORC Mainsail area: 579.903Ft?  
Surface area: 595.403Ft?  
Clew height: 4.440Ft  
Mast rake: 1.000Ft

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	3.333Ft	1.325Ft	60.748?	36.112Ft	36.394Ft	
60.000%	4.583Ft	1.575Ft	60.748?	28.170Ft	27.295Ft	
40.000%	4.583Ft	1.242Ft	60.748?	20.228Ft	18.197Ft	
20.000%	3.750Ft	0.709Ft	60.748?	12.286Ft	9.098Ft	

### Reefing Points

1, Luff: 4.226Ft ; Leech: 4.952Ft ; Offset: 0.000Ft ; Number Eyelets: 0  
2, Luff: 9.033Ft ; Leech: 10.926Ft ; Offset: 0.000Ft ; Number Eyelets: 0

### Draft Stripes

1, Luff: 14.452Ft ; Leech: 11.188Ft ;  
2, Luff: 28.978Ft ; Leech: 27.526Ft ;

### Luff Slides

1, Position: 3.449Ft  
2, Position: 6.827Ft  
3, Position: 10.205Ft  
4, Position: 13.583Ft  
5, Position: 16.961Ft  
6, Position: 20.339Ft  
7, Position: 23.716Ft  
8, Position: 27.094Ft  
9, Position: 30.472Ft  
10, Position: 33.850Ft  
11, Position: 37.228Ft  
12, Position: 40.606Ft

### Luff Curve

		Fanned Luff (@ 5.00% [1.164Ft])	Before BSeam
44.047Ft,	0.000Ft	100% (44.055Ft) :	-0.000Ft
38.583Ft,	-0.224Ft	90% (39.662Ft) :	0.127Ft
33.035Ft,	-0.389Ft	80% (35.240Ft) :	0.238Ft
22.024Ft,	-0.489Ft	70% (30.842Ft) :	0.307Ft
11.012Ft,	-0.362Ft	60% (26.433Ft) :	0.339Ft
5.380Ft,	-0.202Ft	50% (22.028Ft) :	0.341Ft
0.000Ft,	0.000Ft	40% (17.621Ft) :	0.320Ft
		30% (13.217Ft) :	0.275Ft
		20% (8.806Ft) :	0.202Ft
		10% (4.414Ft) :	0.104Ft
		0% (0.000Ft) :	0.000Ft

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### Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1	0.082Ft	0.082Ft	0.082Ft
Zone: 2	0.082Ft	0.082Ft	0.082Ft

### Edge Excesses

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

### Total Seam Lengths (Ft)

Horizontal	169.09
Radial/Vertical	0.00
Bi-Radial Split	0.00

### Materials

Material	Area (Ft <sup>2</sup> )	Panels
8oz p	480.55	2/1,2/2,2/3,2/4,2/5
Material 2	115.52	2/6,2/7,2/8,2/9 1/1,1/2,1/3

