

# Mainsail: 8000208 Mike Nonsuch 30 ccmainsail.des

## Far East Sails / MichaelDesign: Azure Project v6.009, Sandy Goodalldesign

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: 21/2/2024  
Boat:  
Nonsuch 30  
Client:  
Far East Sails / Michael

Design: Azure Project v6.009, Sandy Goodall

design = mk3

Design Data  
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Comments:  
Nonsuch 30, unstayed rig, cc main, 56.7 m<sup>2</sup> / 610.8 sq.ft.  
Material: 7.18 oz dacron, 54" (51" panels)  
P = 44.5 ft, E = 24.666 ft (loose foot)  
Luff = 44.0 ft, Leech = 46.035 ft  
Foot = 24.419 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  
cunningham (13" up)  
2 x draft stripes @ 33 + 66%% heights

Main

Measurements

Luff geodesic:	13.411m
Leech geodesic:	14.004m
Foot geodesic:	7.443m
Head geodesic:	0.135m
Upper width (MUW):	1.225m
Three-quarter width (MTW):	2.349m
Half width (MHW):	4.334m
Quarter width (MQW):	5.982m
Foot median:	13.416m
ORC Mainsail area:	55.140m <sup>2</sup>
Surface area:	56.650m <sup>2</sup>
Clew height:	1.353m
Mast rake:	0.305m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.016m	0.404m	59.760?	11.005m	11.134m	
60.000%	1.397m	0.480m	59.760?	8.600m	8.351m	
40.000%	1.397m	0.379m	59.760?	6.194m	5.567m	
20.000%	1.143m	0.216m	59.760?	3.788m	2.784m	

Reefing Points

1, Luff: 1.625m ; Leech: 2.178m ; Offset: 0.000m ; Number Eyelets: 0  
2, Luff: 3.302m ; Leech: 4.312m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 4.399m ; Leech: 3.387m ;  
2, Luff: 8.821m ; Leech: 8.398m ;

Luff Slides

- 1, Position: 1.050m
- 2, Position: 2.078m
- 3, Position: 3.106m
- 4, Position: 4.135m
- 5, Position: 5.163m
- 6, Position: 6.191m
- 7, Position: 7.220m
- 8, Position: 8.248m
- 9, Position: 9.276m
- 10, Position: 10.305m
- 11, Position: 11.333m
- 12, Position: 12.361m

Luff Curve

		Fanned Luff (@ 5.00% [0.365m])	Before BSeam
13.409m,	0.000m	100% (13.411m) :	-0.000m
11.745m,	-0.068m	90% (12.074m) :	0.091m
10.056m,	-0.119m	80% (10.728m) :	0.178m
6.704m,	-0.149m	70% (9.389m) :	0.243m
3.352m,	-0.110m	60% (8.047m) :	0.281m
1.638m,	-0.062m	50% (6.706m) :	0.288m
0.000m,	0.000m	40% (5.364m) :	0.269m
		30% (4.023m) :	0.225m
		20% (2.681m) :	0.159m
		10% (1.344m) :	0.076m
		0% (0.000m) :	0.000m

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Seam Allowances			
	Split	Radial	Cross
Zone: 1	0.025m	0.025m	0.025m
Zone: 2	0.025m	0.025m	0.025m

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

Total Seam Lengths (m)	
Horizontal	54.53
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials		
Material	Area (m <sup>2</sup> )	Panels
Material 2	56.72	1\1,1\2,1\3,2\1,2\2 2\3,2\4,2\5,2\6,2\7 2\8,2\9,2\10

