

Mainsail: 8000208 Mike Nonsuch 30 ccmainsV3.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: 2/4/2024
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 = 43.89 ft, Leech =45.63ft
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: 43.888Ft
Leech geodesic: 45.626Ft
Foot geodesic: 23.760Ft
Head geodesic: 0.443Ft
Upper width (MUW): 3.946Ft
Three-quarter width (MTW): 7.553Ft
Half width (MHW): 13.893Ft
Quarter width (MQW): 19.131Ft
Foot median: 43.874Ft
ORC Mainsail area: 577.686Ft?
Surface area: 593.252Ft?
Clew height: 4.440Ft
Mast rake: 1.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	3.333Ft	1.325Ft	60.465?	35.993Ft	36.282Ft	
60.000%	4.583Ft	1.575Ft	60.465?	28.098Ft	27.212Ft	
40.000%	4.583Ft	1.242Ft	60.465?	20.203Ft	18.141Ft	
20.000%	3.750Ft	0.709Ft	60.465?	12.308Ft	9.071Ft	

Reefing Points

1, Luff: 4.210Ft ; Leech: 4.919Ft ; Offset: 0.000Ft ; Number Eyelets: 0
2, Luff: 8.998Ft ; Leech: 10.875Ft ; Offset: 0.000Ft ; Number Eyelets: 0

Draft Stripes

1, Luff: 14.397Ft ; Leech: 11.136Ft ;
2, Luff: 28.868Ft ; Leech: 27.429Ft ;

Luff Slides

1, Position: 3.436Ft
2, Position: 6.801Ft
3, Position: 10.166Ft
4, Position: 13.531Ft
5, Position: 16.896Ft
6, Position: 20.262Ft
7, Position: 23.627Ft
8, Position: 26.992Ft
9, Position: 30.357Ft
10, Position: 33.722Ft
11, Position: 37.087Ft
12, Position: 40.453Ft

Luff Curve

		Fanned Luff (@ 5.00% [1.164Ft])	Before BSeam
43.880Ft,	0.000Ft	100% (43.888Ft) :	0.000Ft
38.437Ft,	-0.224Ft	90% (39.512Ft) :	0.129Ft
32.910Ft,	-0.389Ft	80% (35.107Ft) :	0.242Ft
21.940Ft,	-0.489Ft	70% (30.725Ft) :	0.311Ft
10.970Ft,	-0.362Ft	60% (26.333Ft) :	0.343Ft
5.359Ft,	-0.202Ft	50% (21.945Ft) :	0.345Ft
0.000Ft,	0.000Ft	40% (17.554Ft) :	0.324Ft
		30% (13.167Ft) :	0.278Ft
		20% (8.772Ft) :	0.204Ft
		10% (4.397Ft) :	0.105Ft
		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	169.00
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
8oz p	478.80	2\1,2\2,2\3,2\4,2\5
Material 2	115.10	2\6,2\7,2\8,2\9 1\1,1\2,1\3

