

Mainsail: 8000317 Rick Nonsuch 30 ccmainsail.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\8000317 Rick Non

Initial Design Date: 27/3/2024
Boat:
Nonsuch 30
Client:
Far East Sails / Michael

Comments:
Nonsuch 30, unstayed rig, cc main, 56.7 m² / 610.8 sq.ft.
Material: 7.18 oz dacron, 54" (51" panels)
P = 45 ft, E = 24 ft (loose foot)
Luff = 44.0 ft, Leech = 45.717 ft
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 = 1.5" , taped leech (no fold over)
Stack patches
2 x draft stripes @ 33 + 66%% heights

Design Data
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Main

Measurements

Luff geodesic:	44.000Ft
Leech geodesic:	45.717Ft
Foot geodesic:	23.760Ft
Head geodesic:	0.443Ft
Upper width (MUW):	3.866Ft
Three-quarter width (MTW):	7.384Ft
Half width (MHW):	13.621Ft
Quarter width (MQW):	18.885Ft
Foot median:	43.976Ft
ORC Mainsail area:	571.615Ft ²
Surface area:	587.823Ft ²
Clew height:	4.440Ft
Mast rake:	1.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	3.333Ft	1.325Ft	60.548?	36.082Ft	36.360Ft	
60.000%	4.583Ft	1.575Ft	60.548?	28.165Ft	27.270Ft	
40.000%	4.583Ft	1.242Ft	60.548?	20.247Ft	18.180Ft	
20.000%	3.750Ft	0.709Ft	60.548?	12.330Ft	9.090Ft	

Reefing Points

- 1, Luff: 5.353Ft ; Leech: 7.289Ft ; Offset: 0.000Ft ; Number Eyelets: 0
- 2, Luff: 10.869Ft ; Leech: 14.299Ft ; Offset: 0.000Ft ; Number Eyelets: 0

Draft Stripes

- 1, Luff: 14.476Ft ; Leech: 11.217Ft ;
- 2, Luff: 28.992Ft ; Leech: 27.542Ft ;

Luff Slides

- 1, Position: 3.444Ft
- 2, Position: 6.818Ft
- 3, Position: 10.192Ft
- 4, Position: 13.566Ft
- 5, Position: 16.939Ft
- 6, Position: 20.313Ft
- 7, Position: 23.687Ft
- 8, Position: 27.061Ft
- 9, Position: 30.434Ft
- 10, Position: 33.808Ft
- 11, Position: 37.182Ft
- 12, Position: 40.556Ft

Luff Curve

		Fanned Luff (@ 5.00% [1.164Ft])	Before BSeam
43.998Ft,	0.000Ft	100% (44.000Ft) :	-0.000Ft
38.540Ft,	-0.111Ft	90% (39.605Ft) :	0.213Ft
32.998Ft,	-0.193Ft	80% (35.198Ft) :	0.416Ft
21.999Ft,	-0.242Ft	70% (30.801Ft) :	0.568Ft
11.000Ft,	-0.179Ft	60% (26.400Ft) :	0.658Ft
5.374Ft,	-0.100Ft	50% (22.000Ft) :	0.676Ft
0.000Ft,	0.000Ft	40% (17.600Ft) :	0.627Ft
		30% (13.201Ft) :	0.521Ft
		20% (8.798Ft) :	0.377Ft
		10% (4.404Ft) :	0.193Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1	0.125Ft	0.125Ft	0.125Ft
Zone: 2	0.125Ft	0.125Ft	0.125Ft

Edge Excesses

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

Total Seam Lengths (Ft)

Horizontal	168.75
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
8oz p	472.50	2\1,2\2,2\3,2\4,2\5
Material 2	115.43	2\6,2\7,2\8,2\9 1\1,1\2,1\3

