

# Mainsail: 8000518 Paul-1 Nautica 330 fullbatt Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000518 Paul Nautica

Initial Design Date: 27/8/2024  
Boat:  
Nautica 330  
Client:

Comments:

Design Data  
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Main

Measurements

Luff geodesic: 12.177m  
Leech geodesic: 12.773m  
Foot geodesic: 4.059m  
Head geodesic: 0.135m  
Upper width (MUW): 0.773m  
Three-quarter width (MTW): 1.403m  
Half width (MHW): 2.500m  
Quarter width (MQW): 3.379m  
Foot median: 12.439m  
ORC Mainsail area: 28.556m?  
Surface area: 29.235m?  
Clew height: 0.100m  
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.204m	0.296m	71.476?	9.763m	10.184m	Full
60.000%	2.137m	0.362m	71.476?	7.349m	7.638m	Full
40.000%	2.916m	0.319m	71.476?	4.934m	5.092m	Full
20.000%	3.545m	0.184m	71.476?	2.520m	2.546m	Full

Reefing Points

1, Luff: 1.486m ; Leech: 1.535m ; Offset: 0.000m ; Number Eyelets: 3  
2, Luff: 3.166m ; Leech: 3.267m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.044m ; Leech: 3.052m ;  
2, Luff: 6.089m ; Leech: 6.229m ;  
3, Luff: 9.133m ; Leech: 9.440m ;

Luff Slides

1, Position: 0.908m  
2, Position: 1.837m  
3, Position: 3.495m  
4, Position: 4.294m  
5, Position: 5.739m  
6, Position: 6.544m  
7, Position: 8.153m  
8, Position: 8.958m  
9, Position: 10.568m  
10, Position: 11.372m

Luff Curve

Luff Curve		Fanned Luff (@ 5.00% [0.202m])	Before BSeam
12.177m,	0.000m	100% (12.177m) :	0.000m
10.659m,	-0.028m	90% (10.959m) :	0.046m
9.132m,	-0.048m	80% (9.742m) :	0.086m
7.602m,	-0.057m	70% (8.524m) :	0.113m
6.088m,	-0.058m	60% (7.306m) :	0.129m
4.537m,	-0.054m	50% (6.089m) :	0.133m
3.044m,	-0.043m	40% (4.871m) :	0.128m
1.517m,	-0.024m	30% (3.653m) :	0.111m
0.000m,	0.000m	20% (2.435m) :	0.082m
		10% (1.218m) :	0.042m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.030m	0.030m	0.030m

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

Total Seam Lengths (m)

Horizontal	25.60
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	29.23	1,2,3,4,5 6,7,8,9,10 11

