

Mainsail: 7000529 Justin-1 Beneteau Oceanis 343 MainsailV1.des

Design Info

=====

Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000529 Justin\7000529 Justin-1 Beneteau Oceanis 343 MainsailV1.des

Initial Design Date: 7/6/2023

Boat:

Client:

Comments:

Design Data

=====

Main

Measurements

Luff geodesic:	11.810m
Leech geodesic:	12.336m
Foot geodesic:	4.089m
Head geodesic:	0.115m
Upper width (MUW):	0.768m
Three-quarter width (MTW):	1.404m
Half width (MHW):	2.493m
Quarter width (MQW):	3.361m
Foot median:	12.054m
ORC Mainsail area:	27.648m ²
Surface area:	28.267m ²
Clew height:	0.164m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	0.800m	0.196m	73.538?	9.677m	10.084m	
62.000%	1.500m	0.278m	73.538?	7.315m	7.625m	
41.500%	2.100m	0.248m	73.538?	4.895m	5.104m	
21.000%	2.800m	0.147m	73.538?	2.476m	2.583m	

Reefing Points

1, Luff: 1.770m ; Leech: 1.830m ; Offset: 0.000m ; Number Eyelets: 3
 2, Luff: 3.541m ; Leech: 3.659m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 2.951m ; Leech: 2.910m ;
 2, Luff: 5.903m ; Leech: 6.004m ;
 3, Luff: 8.855m ; Leech: 9.128m ;

Luff Slides

1, Position: 0.760m
 2, Position: 1.562m
 3, Position: 2.481m
 4, Position: 3.288m
 5, Position: 4.094m
 6, Position: 4.900m
 7, Position: 5.707m
 8, Position: 6.513m
 9, Position: 7.319m
 10, Position: 8.106m
 11, Position: 8.893m
 12, Position: 9.680m
 13, Position: 10.390m
 14, Position: 11.100m

Luff Curve

		Fanned Luff (@ 5.00% [0.204m])	Before BSeam
11.809m,	0.000m	100% (11.810m) :	0.000m
10.338m,	-0.031m	90% (10.629m) :	0.046m
8.857m,	-0.051m	80% (9.448m) :	0.088m
7.373m,	-0.059m	70% (8.267m) :	0.120m
5.905m,	-0.059m	60% (7.086m) :	0.135m
4.400m,	-0.055m	50% (5.905m) :	0.136m
2.952m,	-0.044m	40% (4.724m) :	0.124m
1.472m,	-0.025m	30% (3.543m) :	0.101m
0.000m,	0.000m	20% (2.362m) :	0.070m
		10% (1.181m) :	0.034m
		0% (0.000m) :	0.000m

Mainsail: 7000529 Justin-1 Beneteau Oceanis 343 MainsailV1.des

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

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

Total Seam Lengths (m)

Horizontal	24.86
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	28.29	1,2,3,4,5 6,7,8,9,10 11

