

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

## Design Info

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## Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000529 Justin\7000529

Initial Design Date: 7/6/2023

Boat:

Comments:

Client:

## Design Data

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### Main

#### Measurements

Luff geodesic:	11.810m
Leech geodesic:	12.391m
Foot geodesic:	4.089m
Head geodesic:	0.115m
Upper width (MUW):	0.769m
Three-quarter width (MTW):	1.408m
Half width (MHW):	2.506m
Quarter width (MQW):	3.370m
Foot median:	12.085m
ORC Mainsail area:	27.722m <sup>2</sup>
Surface area:	28.369m <sup>2</sup>
Clew height:	0.100m
Mast rake:	0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	0.859m	0.196m	72.750?	9.680m	10.129m	
62.000%	1.227m	0.278m	72.750?	7.319m	7.658m	
41.500%	1.227m	0.248m	72.750?	4.900m	5.126m	
21.000%	1.022m	0.147m	72.750?	2.481m	2.594m	

### Reefing Points

1, Luff: 1.771m ; Leech: 1.836m ; Offset: 0.000m ; Number Eyelets: 3  
 2, Luff: 3.542m ; Leech: 3.673m ; Offset: 0.000m ; Number Eyelets: 3

### Draft Stripes

1, Luff: 2.952m ; Leech: 2.969m ;  
 2, Luff: 5.903m ; Leech: 6.062m ;  
 3, Luff: 8.856m ; Leech: 9.185m ;

### 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,	-0.029m	90% (10.629m) :	0.046m
8.857m,	-0.049m	80% (9.448m) :	0.090m
7.373m,	-0.058m	70% (8.267m) :	0.125m
5.905m,	-0.059m	60% (7.086m) :	0.144m
4.400m,	-0.055m	50% (5.905m) :	0.146m
2.952m,	-0.044m	40% (4.724m) :	0.134m
1.472m,	-0.025m	30% (3.543m) :	0.109m
0.000m,	0.000m	20% (2.362m) :	0.076m
		10% (1.181m) :	0.038m
		0% (0.000m) :	0.000m

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

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

Total Seam Lengths (m)

Horizontal	24.83
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	28.39	1,2,3,4,5 6,7,8,9,10 11

