

# Mainsail: 7000617 Duncan -1 Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000617 Duncan\700

Initial Design Date: 25/6/2023  
Boat:

Comments:

Client:

Design Data  
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## Main

### Measurements

Luff geodesic:	10.740m
Leech geodesic:	11.400m
Foot geodesic:	4.140m
Head geodesic:	0.115m
Upper width (MUW):	0.769m
Three-quarter width (MTW):	1.421m
Half width (MHW):	2.530m
Quarter width (MQW):	3.408m
Foot median:	11.040m
ORC Mainsail area:	25.470m?
Surface area:	26.162m?
Clew height:	0.112m
Mast rake:	0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.231m	0.222m	70.888?	8.587m	9.085m	Full
60.000%	2.171m	0.289m	70.888?	6.439m	6.814m	Full
40.000%	2.944m	0.255m	70.888?	4.293m	4.543m	Full
20.000%	3.578m	0.147m	70.888?	2.146m	2.271m	Full

### Reefing Points

1, Luff: 1.610m ; Leech: 1.683m ; Offset: 0.000m ; Number Eyelets: 0  
 2, Luff: 3.221m ; Leech: 3.367m ; Offset: 0.000m ; Number Eyelets: 0

### Draft Stripes

1, Luff: 3.543m ; Leech: 3.617m ;  
 2, Luff: 7.087m ; Leech: 7.384m ;

### Luff Slides

- 1, Position: 0.715m
- 2, Position: 1.431m
- 3, Position: 2.862m
- 4, Position: 3.679m
- 5, Position: 5.008m
- 6, Position: 5.724m
- 7, Position: 7.155m
- 8, Position: 7.871m
- 9, Position: 9.305m
- 10, Position: 10.022m

### Luff Curve

		Fanned Luff (@ 5.00% [0.206m])	Before BSeam
10.740m,	0.000m	100% (10.740m) :	0.000m
9.401m,	-0.025m	90% (9.666m) :	0.043m
8.055m,	-0.043m	80% (8.592m) :	0.085m
6.705m,	-0.050m	70% (7.518m) :	0.117m
5.370m,	-0.051m	60% (6.444m) :	0.135m
4.002m,	-0.047m	50% (5.370m) :	0.138m
2.685m,	-0.038m	40% (4.296m) :	0.126m
1.338m,	-0.021m	30% (3.222m) :	0.103m
0.000m,	0.000m	20% (2.148m) :	0.071m
		10% (1.074m) :	0.034m
		0% (0.000m) :	0.000m

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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	23.03
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	26.18	1,2,3,4,5 6,7,8,9,10

