

# Mainsail: 8000219 Aidan fullbatt main.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000219 Aidan ma

Initial Design Date: 19/2/2024  
Boat:

Comments:

Client:

Design Data  
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## Main

### Measurements

Luff geodesic: 10.642m  
 Leech geodesic: 11.186m  
 Foot geodesic: 3.613m  
 Head geodesic: 0.115m  
 Upper width (MUW): 0.722m  
 Three-quarter width (MTW): 1.311m  
 Half width (MHW): 2.277m  
 Quarter width (MQW): 3.030m  
 Foot median: 10.880m  
 ORC Mainsail area: 22.577m?  
 Surface area: 23.172m?  
 Clew height: 0.100m  
 Mast rake: 0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.146m	0.248m	73.158?	8.509m	8.916m	Full
60.000%	1.971m	0.322m	73.158?	6.382m	6.687m	Full
40.000%	2.638m	0.284m	73.158?	4.255m	4.458m	Full
20.000%	3.173m	0.164m	73.158?	2.129m	2.229m	Full

### Reefing Points

1, Luff: 1.596m ; Leech: 1.644m ; Offset: 0.000m ; Number Eyelets: 2  
 2, Luff: 3.192m ; Leech: 3.290m ; Offset: 0.000m ; Number Eyelets: 2  
 3, Luff: 4.788m ; Leech: 4.940m ; Offset: 0.000m ; Number Eyelets: 2

### Draft Stripes

1, Luff: 3.511m ; Leech: 3.546m ;  
 2, Luff: 7.022m ; Leech: 7.225m ;

### Luff Slides

1, Position: 0.710m  
 2, Position: 1.419m  
 3, Position: 2.838m  
 4, Position: 3.546m  
 5, Position: 5.076m  
 6, Position: 5.765m  
 7, Position: 7.091m  
 8, Position: 7.800m  
 9, Position: 9.220m  
 10, Position: 9.931m

### Luff Curve

		Fanned Luff (@ 5.00% [0.180m])	Before BSeam
10.642m,	0.000m	100% (10.642m) :	0.000m
9.316m,	-0.025m	90% (9.578m) :	0.015m
7.981m,	-0.042m	80% (8.514m) :	0.026m
6.644m,	-0.050m	70% (7.450m) :	0.033m
5.321m,	-0.051m	60% (6.385m) :	0.035m
3.965m,	-0.047m	50% (5.321m) :	0.035m
2.660m,	-0.037m	40% (4.257m) :	0.032m
1.326m,	-0.021m	30% (3.193m) :	0.027m
0.000m,	0.000m	20% (2.128m) :	0.020m
		10% (1.064m) :	0.009m
		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	20.79
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	23.17	1,2,3,4,5 6,7,8,9,10

