

# Mainsail: 5000911-1 mainsail Kai

Design Info  
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Design File:  
D:\Dropbox\Fareast Sails\2021\5000911 Kai\5000911-1 mainsail Kai.des

Initial Design Date: 5/10/2021  
Boat:

Comments:

Client:

Design Data  
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## Main

### Measurements

Luff geodesic: 11.260m  
Leech geodesic: 11.883m  
Foot geodesic: 4.160m  
Head geodesic: 0.115m  
Upper width (MUW): 0.718m  
Three-quarter width (MTW): 1.325m  
Half width (MHW): 2.441m  
Quarter width (MQW): 3.368m  
Foot median: 11.514m  
ORC Mainsail area: 26.093m?  
Surface area: 26.616m?  
Clew height: 0.100m  
Mast rake: 0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.119m	0.120m	71.595?	9.002m	9.490m	Full
60.000%	2.067m	0.204m	71.595?	6.749m	7.118m	Full
40.000%	2.859m	0.172m	71.595?	4.497m	4.745m	Full
20.000%	3.545m	0.096m	71.595?	2.246m	2.373m	Full

### Reefing Points

1, Luff: 1.463m ; Leech: 1.529m ; Offset: 0.000m ; Number Eyelets: 2  
2, Luff: 2.927m ; Leech: 3.057m ; Offset: 0.000m ; Number Eyelets: 2  
3, Luff: 5.066m ; Leech: 5.295m ; Offset: 0.000m ; Number Eyelets: 2

### Luff Curve

		Fanned Luff (@ 5.00% [0.207m])	Before BSeam
11.260m,	0.000m	100% (11.260m) :	0.000m
10.123m,	-0.023m	90% (10.134m) :	0.041m
9.008m,	-0.041m	80% (9.008m) :	0.075m
7.871m,	-0.052m	70% (7.882m) :	0.100m
6.755m,	-0.057m	60% (6.756m) :	0.117m
5.089m,	-0.055m	50% (5.630m) :	0.123m
3.378m,	-0.043m	40% (4.504m) :	0.119m
1.788m,	-0.025m	30% (3.378m) :	0.103m
0.000m,	0.000m	20% (2.252m) :	0.074m
		10% (1.126m) :	0.036m
		0% (0.000m) :	0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.038m
Zone: 1/b	0.038m	0.015m	0.038m
Zone: 2/a	0.038m	0.015m	0.038m
Zone: 2/b	0.038m	0.015m	0.038m
Zone: 3/a	0.038m	0.015m	0.038m
Zone: 3/b	0.038m	0.015m	0.038m

## Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	5.26
Radial/Vertical	122.30
Bi-Radial Split	11.84

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	26.66	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,2\1 2\2,2\3,2\4,2\5,2b\1 2b\2,2b\3,2b\4,2b\5,3\1 3\2,3\3,3\4,3b\1,3b\2 3b\3,3b\4

