

# Mainsail: 7000126 Kurt mainsail.des

Design Info  
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Design File:  
F:\Dropbox\Dropbox-20221019\Dropbox20221213\Dropbox\Fareast Sails\2023 Order\Need Confrim Order\7000126 K

Initial Design Date: 30/1/2023  
Boat:

Comments:

Client:

Design Data  
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Main

Measurements

Luff geodesic:	17.150m
Leech geodesic:	18.270m
Foot geodesic:	6.350m
Head geodesic:	0.120m
Upper width (MUW):	1.077m
Three-quarter width (MTW):	2.015m
Half width (MHW):	3.685m
Quarter width (MQW):	5.100m
Foot median:	17.642m
ORC Mainsail area:	60.190m?
Surface area:	61.399m?
Clew height:	0.063m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
85.333%	1.285m	0.146m	70.598?	14.631m	15.547m	Full
69.550%	2.451m	0.220m	70.598?	11.924m	12.672m	Full
52.720%	3.549m	0.217m	70.598?	9.038m	9.605m	Full
35.633%	4.549m	0.177m	70.598?	6.108m	6.492m	Full
17.970%	5.470m	0.097m	70.598?	3.080m	3.274m	Full

Reefing Points

1, Luff: 2.100m ; Leech: 2.220m ; Offset: 0.000m ; Number Eyelets: 4  
2, Luff: 4.970m ; Leech: 5.246m ; Offset: 0.000m ; Number Eyelets: 4  
3, Luff: 7.850m ; Leech: 8.287m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 4.287m ; Leech: 4.474m ;  
2, Luff: 8.574m ; Leech: 9.013m ;  
3, Luff: 12.861m ; Leech: 13.575m ;

Luff Slides

1, Position: 1.540m  
2, Position: 4.594m  
3, Position: 7.573m  
4, Position: 10.481m  
5, Position: 13.277m  
6, Position: 15.890m

Luff Curve

		Fanned Luff (@ 5.00% [0.316m])	Before BSeam
17.149m,	0.000m	100% (17.150m) :	0.000m
13.080m,	-0.095m	90% (15.435m) :	0.074m
8.720m,	-0.112m	80% (13.720m) :	0.146m
4.360m,	-0.082m	70% (12.005m) :	0.203m
0.000m,	0.000m	60% (10.290m) :	0.231m
		50% (8.575m) :	0.234m
		40% (6.860m) :	0.217m
		30% (5.145m) :	0.180m
		20% (3.430m) :	0.126m
		10% (1.715m) :	0.059m
		0% (0.000m) :	0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.046m
Cover 1	0.045m	0.045m	0.045m
Cover 2	0.045m	0.045m	0.045m

## Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.000m	0.000m	0.000m
Cover 1	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	49.78
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	61.50	1,2,3,4,5 6,7,8,9,10 11,12,13,14,15

