

# Mainsail: 7000512 Riku Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000512 Riku\7000512

Initial Design Date: 27/5/2023  
Boat:

Comments:

Client:

Design Data  
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Main

## Measurements

Luff geodesic:	7.524m
Leech geodesic:	8.071m
Foot geodesic:	3.197m
Head geodesic:	0.115m
Upper width (MUW):	0.616m
Three-quarter width (MTW):	1.132m
Half width (MHW):	1.999m
Quarter width (MQW):	2.661m
Foot median:	7.768m
ORC Mainsail area:	14.003m?
Surface area:	14.502m?
Clew height:	0.100m
Mast rake:	0.000m

## Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.001m	0.199m	69.006?	6.018m	6.425m	Full
60.000%	1.743m	0.268m	69.006?	4.518m	4.819m	Full
40.000%	2.327m	0.237m	69.006?	3.018m	3.212m	Full
20.000%	2.793m	0.137m	69.006?	1.518m	1.606m	Full

## Reefing Points

1, Luff: 1.128m ; Leech: 1.182m ; Offset: 0.000m ; Number Eyelets: 0  
2, Luff: 2.256m ; Leech: 2.367m ; Offset: 0.000m ; Number Eyelets: 0

## Draft Stripes

1, Luff: 2.482m ; Leech: 2.524m ;  
2, Luff: 4.965m ; Leech: 5.190m ;

## Luff Slides

1, Position: 0.455m  
2, Position: 0.945m  
3, Position: 2.018m  
4, Position: 2.518m  
5, Position: 3.518m  
6, Position: 4.018m  
7, Position: 5.018m  
8, Position: 5.518m  
9, Position: 6.520m  
10, Position: 7.022m

## Luff Curve

		Fanned Luff (@ 5.00% [0.159m])	Before BSeam
7.524m,	0.000m	100% (7.524m) :	0.000m
6.586m,	-0.017m	90% (6.772m) :	0.033m
5.643m,	-0.030m	80% (6.019m) :	0.065m
4.697m,	-0.035m	70% (5.267m) :	0.089m
3.762m,	-0.036m	60% (4.514m) :	0.103m
2.803m,	-0.033m	50% (3.762m) :	0.105m
1.881m,	-0.026m	40% (3.010m) :	0.095m
0.938m,	-0.015m	30% (2.257m) :	0.076m
0.000m,	0.000m	20% (1.505m) :	0.052m
		10% (0.752m) :	0.025m
		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	13.92
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	14.49	1,2,3,4,5 6,7,8

