

# Mainsail: 5000104 Phil Mainsail.des

## Design Info

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## Design File:

F:\Dropbox (个人)\Fareast Sails\2021\5000104 Phil\5000104 Phil Mainsail.des

Initial Design Date: 16/1/2021

Boat:

Comments:

Client:

## Design Data

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### Main

#### Measurements

Luff geodesic:	8.060m
Leech geodesic:	8.471m
Foot geodesic:	2.870m
Head geodesic:	0.115m
Upper width (MUW):	0.562m
Three-quarter width (MTW):	1.017m
Half width (MHW):	1.783m
Quarter width (MQW):	2.373m
Foot median:	8.257m
ORC Mainsail area:	13.426m?
Surface area:	13.819m?
Clew height:	0.100m
Mast rake:	0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.886m	0.160m	72.522?	6.443m	6.753m	Full
60.000%	1.545m	0.220m	72.522?	4.832m	5.065m	Full
40.000%	2.059m	0.183m	72.522?	3.221m	3.377m	Full
20.000%	2.488m	0.104m	72.522?	1.610m	1.688m	Full

### Reefing Points

1, Luff: 1.500m ; Leech: 1.554m ; Offset: 0.000m ; Number Eyelets: 2

### Luff Curve

		Fanned Luff (@ 5.00% [0.143m])	Before BSeam
8.060m,	0.000m	100% (8.060m) :	0.000m
7.055m,	-0.017m	90% (7.254m) :	0.009m
6.045m,	-0.029m	80% (6.448m) :	0.018m
5.032m,	-0.035m	70% (5.642m) :	0.023m
4.030m,	-0.037m	60% (4.836m) :	0.025m
3.003m,	-0.034m	50% (4.030m) :	0.024m
2.015m,	-0.027m	40% (3.224m) :	0.023m
1.004m,	-0.015m	30% (2.418m) :	0.019m
0.000m,	0.000m	20% (1.612m) :	0.014m
		10% (0.806m) :	0.007m
		0% (0.000m) :	0.000m

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## Seam Allowances

	Split	Radial	Cross
Zone: 1	0.025m	0.015m	0.025m
Zone: 2	0.025m	0.015m	0.025m

## Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	10.53
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	13.81	1\1,2\1,2\2,2\3,2\4 2\5,2\6

