

# Mainsail: 7000102 Christian square top main V3.des

## Fareast sails/Michael

### Design Info

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Initial Design Date: 11/1/2023  
 Boat:  
 Pogo 40 square top mainsail  
 Client:  
 Fareast sails/Michael

### Design File:

C:\Users\Administrator\Desktop\0224\7000102 Christian square top main V3.des

### Comments:

Pogo 40 square top mainsail, Cross cut  
 P=16.4m, E=5.585m, loose foot  
 Luff=16.25m, leech=16.9m, foot=5.5m  
 3 reefs, up the luff reef#1@2.35m , reef#2 @5.44m,  
 reef#3@ 9.5m  
 5full 1 partical batten  
 Radial patch

### Design Data

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### Main

#### Measurements

Luff geodesic: 16.250m  
 Leech geodesic: 16.900m  
 Foot geodesic: 5.500m  
 Head geodesic: 1.500m  
 Upper width (MUW): 2.095m  
 Three-quarter width (MTW): 3.052m  
 Half width (MHW): 4.114m  
 Quarter width (MQW): 4.829m  
 Foot median: 16.520m  
 ORC Mainsail area: 62.583m?  
 Surface area: 64.901m?  
 Clew height: 0.368m  
 Mast rake: 0.000m

#### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
100.000%	1.971m	0.050m	114.582?	14.992m	16.799m	Full
86.276%	2.714m	0.512m	84.065?	13.740m	14.494m	Full
69.789%	3.528m	0.587m	79.828?	11.238m	11.724m	Full
54.240%	4.066m	0.496m	79.828?	8.731m	9.112m	Full
38.646%	4.525m	0.371m	79.828?	6.218m	6.492m	Full
18.826%	2.216m	0.155m	79.828?	3.025m	3.163m	

#### Reefing Points

1, Luff: 2.354m ; Leech: 2.384m ; Offset: 0.000m ; Number Eyelets: 3  
 2, Luff: 5.439m ; Leech: 5.496m ; Offset: 0.000m ; Number Eyelets: 3  
 3, Luff: 9.499m ; Leech: 9.590m ; Offset: 0.000m ; Number Eyelets: 2

#### Luff Slides

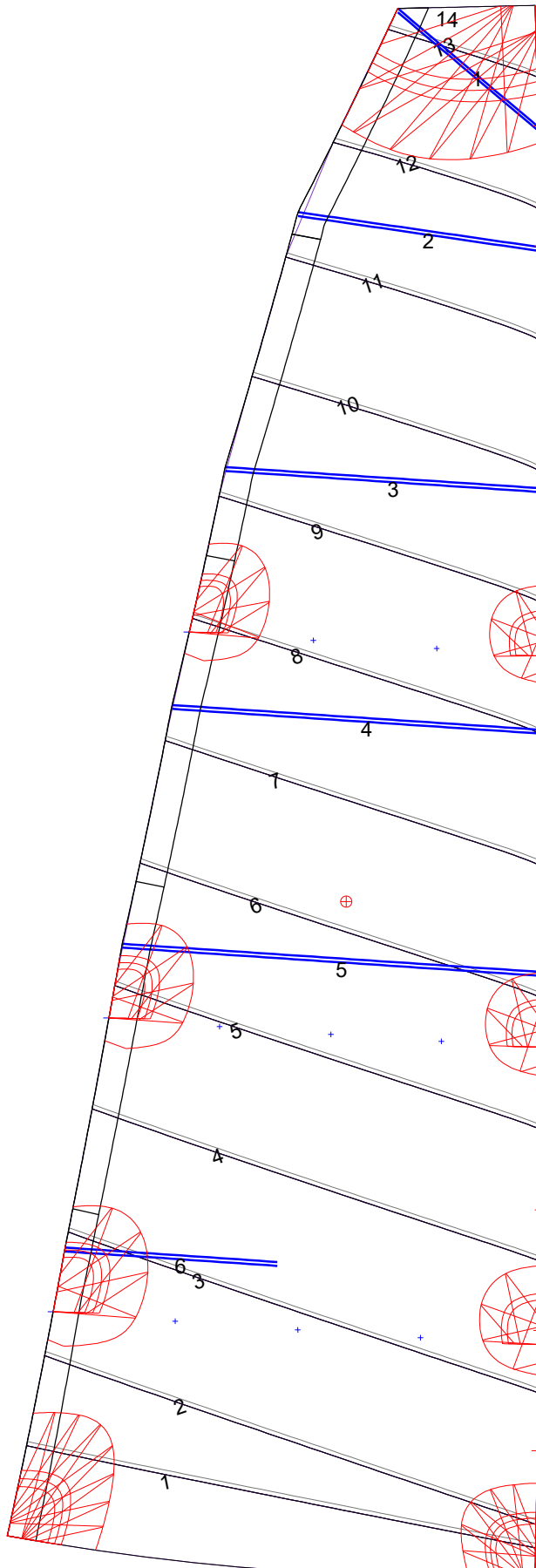
1, Position: 1.250m  
 2, Position: 2.500m  
 3, Position: 3.750m  
 4, Position: 5.000m  
 5, Position: 6.250m  
 6, Position: 7.500m  
 7, Position: 8.750m  
 8, Position: 10.000m  
 9, Position: 11.250m  
 10, Position: 12.500m  
 11, Position: 13.750m  
 12, Position: 15.000m

#### Luff Curve

		Fanned Luff (@ 5.00% [0.274m])	Before BSeam
16.249m,	0.000m	100% (16.250m) :	0.000m
14.224m,	-0.046m	90% (14.626m) :	0.079m
12.187m,	-0.073m	80% (13.000m) :	0.150m
10.144m,	-0.083m	70% (11.375m) :	0.183m
8.124m,	-0.082m	60% (9.750m) :	0.187m
6.055m,	-0.074m	50% (8.125m) :	0.174m
4.062m,	-0.059m	40% (6.500m) :	0.148m
2.025m,	-0.034m	30% (4.875m) :	0.115m
0.000m,	0.000m	20% (3.250m) :	0.075m
		10% (1.625m) :	0.034m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.000m	0.000m	0.045m
Cover 1	0.025m	0.025m	0.025m

Edge Excesses			
Sail:	Luff	Leech	Foot
Cover 0	0.000m	0.000m	0.000m

Total Seam Lengths (m)	
Horizontal	52.91
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials		
Material	Area (m <sup>2</sup> )	Panels
Material 1	64.94	1,2,3,4,5 6,7,8,9,10 11,12,13,14