

# Mainsail: 7000524 Sarah-1 Hanse 540e Mainsail.des

## Design Info

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Initial Design Date: 1/6/2023  
Boat:

Client:

## Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000524 Sarah\7000524

Comments:

## Design Data

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### Main

#### Measurements

Luff geodesic:	21.130m
Leech geodesic:	22.078m
Foot geodesic:	6.435m
Head geodesic:	0.152m
Upper width (MUW):	1.083m
Three-quarter width (MTW):	2.002m
Half width (MHW):	3.672m
Quarter width (MQW):	5.130m
Foot median:	21.594m
ORC Mainsail area:	74.488m <sup>2</sup>
Surface area:	75.456m <sup>2</sup>
Clew height:	0.000m
Mast rake:	0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
83.333%	1.420m	0.124m	73.495?	17.606m	18.363m	Full
66.667%	2.617m	0.188m	73.495?	14.084m	14.690m	Full
50.000%	3.691m	0.180m	73.495?	10.563m	11.018m	Full
33.333%	4.684m	0.148m	73.495?	7.042m	7.345m	Full
16.667%	5.581m	0.080m	73.495?	3.520m	3.673m	Full

### Reefing Points

1, Luff: 3.064m ; Leech: 3.191m ; Offset: 0.000m ; Number Eyelets: 4  
2, Luff: 6.339m ; Leech: 6.600m ; Offset: 0.000m ; Number Eyelets: 4  
3, Luff: 9.509m ; Leech: 9.901m ; Offset: 0.000m ; Number Eyelets: 3

### Draft Stripes

1, Luff: 5.283m ; Leech: 5.503m ;  
2, Luff: 10.565m ; Leech: 10.996m ;  
3, Luff: 15.847m ; Leech: 16.512m ;

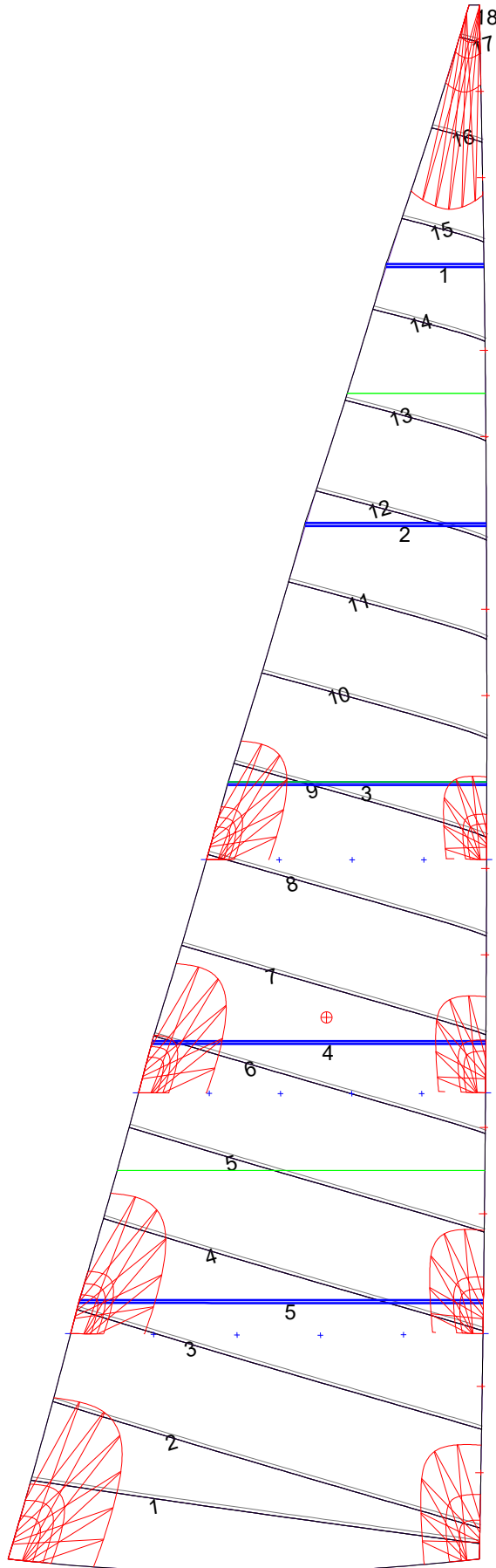
### Luff Slides

1, Position: 1.174m  
2, Position: 2.347m  
3, Position: 4.695m  
4, Position: 5.869m  
5, Position: 8.216m  
6, Position: 9.390m  
7, Position: 11.737m  
8, Position: 12.911m  
9, Position: 15.259m  
10, Position: 16.432m  
11, Position: 18.781m  
12, Position: 19.955m

### Luff Curve

		Fanned Luff (@ 5.00% [0.321m])	Before BSeam
21.129m,	0.000m	100% (21.130m) :	0.000m
18.496m,	-0.049m	90% (19.017m) :	0.064m
15.847m,	-0.084m	80% (16.904m) :	0.123m
13.191m,	-0.099m	70% (14.791m) :	0.169m
10.564m,	-0.100m	60% (12.678m) :	0.192m
7.873m,	-0.093m	50% (10.565m) :	0.198m
5.282m,	-0.074m	40% (8.452m) :	0.185m
2.633m,	-0.042m	30% (6.339m) :	0.154m
0.000m,	0.000m	20% (4.226m) :	0.108m
		10% (2.113m) :	0.053m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.046m	0.046m	0.046m

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

Total Seam Lengths (m)

Horizontal	60.79
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	75.59	1,2,3,4,5 6,7,8,9,10 11,12,13,14,15 16,17,18