

Mainsail: 7000524 Sarah-1 Hanse 540e MainsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000524 Sarah\7000524 Sarah-1 Hanse 540e MainsailV1.des

Initial Design Date: 1/6/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	21.130m
Leech geodesic:	21.880m
Foot geodesic:	6.435m
Head geodesic:	0.160m
Upper width (MUW):	1.070m
Three-quarter width (MTW):	1.969m
Half width (MHW):	3.615m
Quarter width (MQW):	5.090m
Foot median:	21.490m
ORC Mainsail area:	73.816m ²
Surface area:	74.702m ²
Clew height:	0.000m
Mast rake:	0.754m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
83.333%	1.404m	0.145m	75.189°	17.606m	18.183m	Full
66.667%	2.569m	0.207m	75.189°	14.089m	14.547m	Full
50.000%	3.634m	0.198m	75.189°	10.571m	10.910m	Full
33.333%	4.634m	0.163m	75.189°	7.053m	7.273m	Full
16.667%	5.549m	0.088m	75.189°	3.536m	3.637m	Full

Reefing Points

- 1, Luff: 3.063m ; Leech: 3.170m ; Offset: 0.000m ; Number Eyelets: 4
- 2, Luff: 6.338m ; Leech: 6.547m ; Offset: 0.000m ; Number Eyelets: 4
- 3, Luff: 9.507m ; Leech: 9.816m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

- 1, Luff: 5.282m ; Leech: 5.460m ;
- 2, Luff: 10.564m ; Leech: 10.902m ;
- 3, Luff: 15.847m ; Leech: 16.360m ;

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
21.130m,	0.000m	100% (21.130m) :	0.000m
18.497m,	-0.015m	90% (19.017m) :	0.038m
15.847m,	-0.026m	80% (16.904m) :	0.078m
13.192m,	-0.032m	70% (14.791m) :	0.107m
10.565m,	-0.033m	60% (12.678m) :	0.122m
7.873m,	-0.031m	50% (10.565m) :	0.124m
5.282m,	-0.024m	40% (8.452m) :	0.113m
2.633m,	-0.014m	30% (6.339m) :	0.092m
0.000m,	0.000m	20% (4.226m) :	0.062m
		10% (2.113m) :	0.027m
		0% (0.000m) :	0.000m

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

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

Total Seam Lengths (m)

Horizontal	60.78
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	74.84	1,2,3,4,5 6,7,8,9,10 11,12,13,14,15 16,17,18

