

Mainsail: 7000524 Sarah-1 Hanse 540e MainsailV2.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 MainsailV2.des

Initial Design Date: 1/6/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 21.130m
Leech geodesic: 21.697m
Foot geodesic: 6.435m
Head geodesic: 0.100m
Upper width (MUW): 1.199m
Three-quarter width (MTW): 2.224m
Half width (MHW): 3.927m
Quarter width (MQW): 5.292m
Foot median: 21.387m
ORC Mainsail area: 77.803m?
Surface area: 79.226m?
Clew height: 0.000m
Mast rake: 0.799m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
83.333%	1.629m	0.409m	77.058?	17.601m	18.017m	Full
66.667%	2.916m	0.576m	77.058?	14.081m	14.413m	Full
50.000%	3.972m	0.550m	77.058?	10.560m	10.810m	Full
33.333%	4.916m	0.454m	77.058?	7.040m	7.207m	Full
16.667%	5.701m	0.245m	77.058?	3.520m	3.603m	Full

Reefing Points

1, Luff: 3.063m ; Leech: 3.118m ; Offset: 0.000m ; Number Eyelets: 4
2, Luff: 6.337m ; Leech: 6.443m ; Offset: 0.000m ; Number Eyelets: 4
3, Luff: 9.506m ; Leech: 9.669m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 5.070m ; Leech: 4.971m ;
2, Luff: 10.140m ; Leech: 10.174m ;
3, Luff: 15.212m ; Leech: 15.414m ;

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) :	0.041m
15.847m,	-0.025m	80% (16.904m) :	0.084m
13.192m,	-0.029m	70% (14.791m) :	0.115m
10.564m,	-0.030m	60% (12.678m) :	0.128m
7.873m,	-0.028m	50% (10.565m) :	0.127m
5.282m,	-0.022m	40% (8.452m) :	0.114m
2.633m,	-0.013m	30% (6.339m) :	0.091m
0.000m,	0.000m	20% (4.226m) :	0.060m
		10% (2.113m) :	0.025m
		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	64.90
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	79.35	1,2,3,4,5 6,7,8,9,10 11,12,13,14,15 16,17,18

