

Mainsail: 7000524 Sarah-1 Hanse 540e MainsailV3.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 Sarah-1 Hanse 540e MainsailV3.des

Comments:

Design Data

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Main

Measurements

Luff geodesic: 21.130m
Leech geodesic: 21.897m
Foot geodesic: 6.435m
Head geodesic: 0.100m
Upper width (MUW): 1.025m
Three-quarter width (MTW): 1.931m
Half width (MHW): 3.591m
Quarter width (MQW): 5.079m
Foot median: 21.492m
ORC Mainsail area: 73.287m?
Surface area: 74.133m?
Clew height: 0.000m
Mast rake: 0.754m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
83.333%	1.357m	0.148m	75.189?	17.605m	18.198m	Full
66.667%	2.534m	0.211m	75.189?	14.084m	14.558m	Full
50.000%	3.608m	0.202m	75.189?	10.564m	10.919m	Full
33.333%	4.618m	0.167m	75.189?	7.043m	7.279m	Full
16.667%	5.542m	0.090m	75.189?	3.522m	3.640m	Full

Reefing Points

1, Luff: 3.063m ; Leech: 3.172m ; Offset: 0.000m ; Number Eyelets: 4
2, Luff: 6.338m ; Leech: 6.550m ; Offset: 0.000m ; Number Eyelets: 4
3, Luff: 9.507m ; Leech: 9.821m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 5.282m ; Leech: 5.463m ;
2, Luff: 10.564m ; Leech: 10.908m ;
3, Luff: 15.847m ; Leech: 16.369m ;

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) :	0.114m
2.633m,	-0.014m	30% (6.339m) :	0.093m
0.000m,	0.000m	20% (4.226m) :	0.063m
		10% (2.113m) :	0.028m
		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	60.33
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	74.27	1,2,3,4,5 6,7,8,9,10 11,12,13,14,15 16,17,18

