

Mainsail: 8000927 Steele Jeanneau Sun Odyssey 49 fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000927 Steele J

Initial Design Date: 9/10/2024
Boat:
Jeanneau Sun Odyssey 49
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 15.590m
Leech geodesic: 16.420m
Foot geodesic: 5.400m
Head geodesic: 0.155m
Upper width (MUW): 1.085m
Three-quarter width (MTW): 1.960m
Half width (MHW): 3.384m
Quarter width (MQW): 4.473m
Foot median: 15.906m
ORC Mainsail area: 49.136m?
Surface area: 50.255m?
Clew height: -1.089m
Mast rake: 0.300m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
83.333%	1.480m	0.342m	72.758?	12.986m	13.635m	Full
66.667%	2.565m	0.478m	72.758?	10.388m	10.908m	Full
50.000%	3.435m	0.452m	72.758?	7.791m	8.181m	Full
33.333%	4.172m	0.340m	72.758?	5.194m	5.454m	Full
16.667%	4.801m	0.170m	72.758?	2.597m	2.727m	Full

Reefing Points

- 1, Luff: 1.901m ; Leech: 1.969m ; Offset: 0.000m ; Number Eyelets: 0
- 2, Luff: 4.130m ; Leech: 4.272m ; Offset: 0.000m ; Number Eyelets: 0
- 3, Luff: 6.312m ; Leech: 6.529m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

- 1, Luff: 3.896m ; Leech: 3.997m ;
- 2, Luff: 7.949m ; Leech: 8.198m ;
- 3, Luff: 11.691m ; Leech: 12.131m ;

Luff Slides

- 1, Position: 1.298m
- 2, Position: 3.895m
- 3, Position: 6.744m
- 4, Position: 9.090m
- 5, Position: 11.687m
- 6, Position: 14.288m

Luff Curve

		Fanned Luff (@ 5.00% [0.269m])	Before BSeam
15.589m,	0.000m	100% (15.590m) :	0.000m
13.647m,	-0.036m	90% (14.031m) :	0.063m
11.692m,	-0.062m	80% (12.472m) :	0.117m
9.733m,	-0.073m	70% (10.913m) :	0.153m
7.795m,	-0.074m	60% (9.354m) :	0.169m
5.809m,	-0.069m	50% (7.795m) :	0.170m
3.897m,	-0.055m	40% (6.236m) :	0.157m
1.943m,	-0.031m	30% (4.677m) :	0.131m
0.000m,	0.000m	20% (3.118m) :	0.093m
		10% (1.559m) :	0.047m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.045m	0.045m	0.045m

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

Total Seam Lengths (m)

Horizontal	41.86
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
membrane	50.27	1,2,3,4,5 6,7,8,9,10 11,12,13,14

