

Mainsail: 8000925 Wayne Trojan 750 fullbattmainV4.des

Design Info

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Initial Design Date: 1/11/2024
Boat:
Trojan 750
Client:

Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Passed to Production\8000925 Wayne T

Comments:

Design Data

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Main

Measurements

Luff geodesic:	7.680m
Leech geodesic:	8.200m
Foot geodesic:	3.200m
Head geodesic:	0.115m
Upper width (MUW):	0.593m
Three-quarter width (MTW):	1.083m
Half width (MHW):	1.960m
Quarter width (MQW):	2.655m
Foot median:	7.887m
ORC Mainsail area:	14.115m?
Surface area:	14.568m?
Clew height:	0.167m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.939m	0.220m	67.029?	6.177m	6.528m	Full
60.000%	1.690m	0.285m	67.029?	4.675m	4.896m	Full
40.532%	2.288m	0.253m	67.358?	3.201m	3.307m	Full
16.357%	2.872m	0.120m	69.470?	1.281m	1.335m	Full

Reefing Points

1, Luff: 0.936m ; Leech: 0.976m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 1.957m ; Leech: 2.042m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 2.533m ; Leech: 2.511m ;
2, Luff: 5.067m ; Leech: 5.237m ;

Luff Slides

1, Position: 0.512m
2, Position: 1.108m
3, Position: 2.163m
4, Position: 2.626m
5, Position: 3.583m
6, Position: 4.095m
7, Position: 5.119m
8, Position: 5.631m
9, Position: 6.656m
10, Position: 7.168m

Luff Curve

		Fanned Luff (@ 5.00% [0.159m])	Before BSeam
7.680m,	0.000m	100% (7.680m) :	0.000m
6.723m,	-0.021m	90% (6.912m) :	0.013m
5.760m,	-0.036m	80% (6.144m) :	0.023m
4.794m,	-0.042m	70% (5.376m) :	0.029m
3.840m,	-0.043m	60% (4.608m) :	0.031m
2.861m,	-0.040m	50% (3.840m) :	0.031m
1.920m,	-0.032m	40% (3.072m) :	0.028m
0.957m,	-0.018m	30% (2.304m) :	0.024m
0.000m,	0.000m	20% (1.536m) :	0.017m
		10% (0.768m) :	0.008m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000m	0.000m	0.025m

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

Total Seam Lengths (m)

Horizontal	14.23
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	14.55	1,2,3,4,5 6,7,8

