

Mainsail: 8000925 Wayne Trojan 750 fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000925 Wayne T

Initial Design Date: 26/9/2024
Boat:
Trojan 750
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 7.845m
Leech geodesic: 8.475m
Foot geodesic: 3.320m
Head geodesic: 0.115m
Upper width (MUW): 0.614m
Three-quarter width (MTW): 1.121m
Half width (MHW): 2.017m
Quarter width (MQW): 2.743m
Foot median: 8.101m
ORC Mainsail area: 14.897m?
Surface area: 15.379m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.972m	0.228m	68.407?	6.275m	6.747m	Full
60.000%	1.733m	0.280m	68.407?	4.706m	5.060m	Full
40.000%	2.367m	0.243m	68.407?	3.137m	3.374m	Full
20.000%	2.883m	0.136m	68.407?	1.568m	1.687m	Full

Reefing Points

1, Luff: 0.957m ; Leech: 1.010m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 2.000m ; Leech: 2.108m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 2.588m ; Leech: 2.661m ;
2, Luff: 5.177m ; Leech: 5.449m ;

Luff Slides

1, Position: 0.523m
2, Position: 1.131m
3, Position: 2.210m
4, Position: 2.682m
5, Position: 3.660m
6, Position: 4.183m
7, Position: 5.229m
8, Position: 5.752m
9, Position: 6.799m
10, Position: 7.322m

Luff Curve

		Fanned Luff (@ 5.00% [0.165m])	Before BSeam
7.845m,	0.000m	100% (7.845m) :	0.000m
6.867m,	-0.021m	90% (7.061m) :	0.036m
5.883m,	-0.036m	80% (6.276m) :	0.067m
4.897m,	-0.042m	70% (5.492m) :	0.088m
3.922m,	-0.043m	60% (4.707m) :	0.100m
2.923m,	-0.040m	50% (3.923m) :	0.104m
1.961m,	-0.032m	40% (3.138m) :	0.100m
0.978m,	-0.018m	30% (2.353m) :	0.087m
0.000m,	0.000m	20% (1.569m) :	0.064m
		10% (0.785m) :	0.032m
		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	14.57
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	15.36	1,2,3,4,5 6,7,8

