

Mainsail: 7001122 Walter MainsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001122 Walter\7001122 Walter

Initial Design Date: 29/11/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	36.631Ft
Leech geodesic:	38.097Ft
Foot geodesic:	11.549Ft
Head geodesic:	0.377Ft
Upper width (MUW):	2.292Ft
Three-quarter width (MTW):	4.182Ft
Half width (MHW):	7.327Ft
Quarter width (MQW):	9.729Ft
Foot median:	37.345Ft
ORC Mainsail area:	249.142Ft ²
Surface area:	255.172Ft ²
Clew height:	0.328Ft
Mast rake:	0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	3.611Ft	0.755Ft	74.410?	29.292Ft	30.388Ft	Full
60.000%	6.333Ft	1.075Ft	74.410?	21.971Ft	22.791Ft	Full
40.000%	8.469Ft	0.964Ft	74.410?	14.651Ft	15.194Ft	Full
20.000%	10.191Ft	0.595Ft	74.410?	7.332Ft	7.597Ft	Full

Reefing Points

1, Luff: 3.479Ft ; Leech: 3.566Ft ; Offset: 0.000Ft ; Number Eyelets: 3

Draft Stripes

1, Luff: 12.085Ft ; Leech: 12.154Ft ;
2, Luff: 24.172Ft ; Leech: 24.747Ft ;

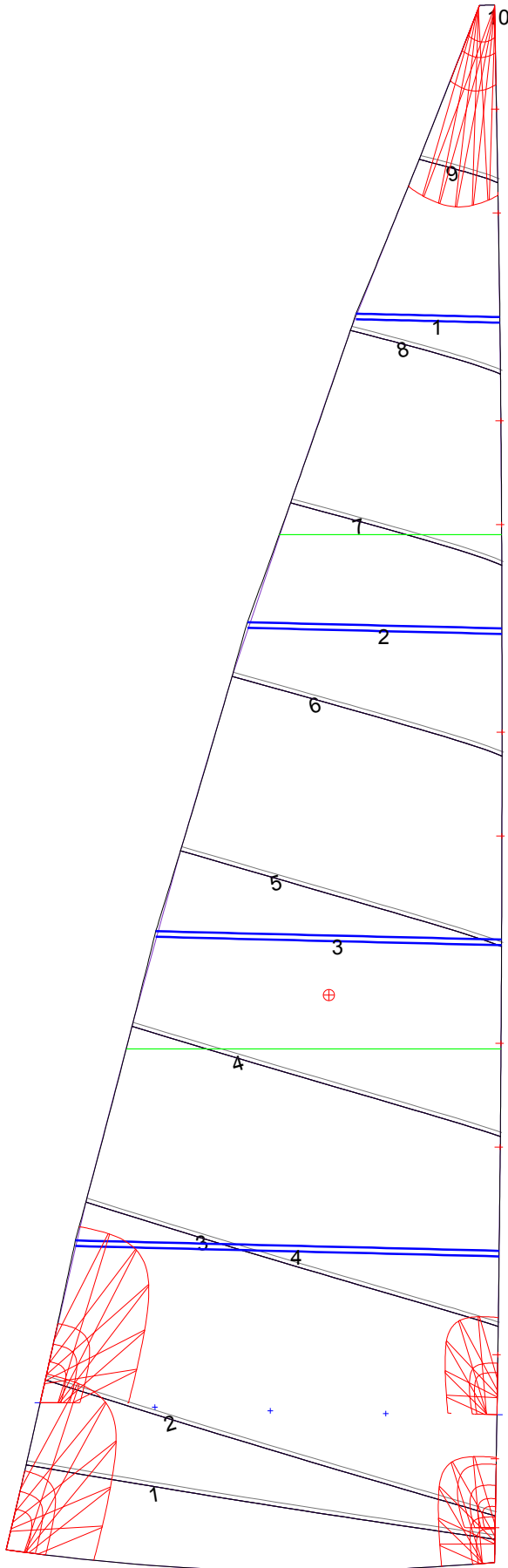
Luff Slides

1, Position: 2.444Ft
2, Position: 4.888Ft
3, Position: 9.772Ft
4, Position: 12.211Ft
5, Position: 17.091Ft
6, Position: 19.531Ft
7, Position: 24.411Ft
8, Position: 26.851Ft
9, Position: 31.738Ft
10, Position: 34.185Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.574Ft])	Before BSeam
36.630Ft,	0.000Ft	100% (36.631Ft) :	0.000Ft
32.065Ft,	-0.085Ft	90% (32.969Ft) :	0.125Ft
27.472Ft,	-0.145Ft	80% (29.305Ft) :	0.243Ft
22.868Ft,	-0.171Ft	70% (25.642Ft) :	0.326Ft
18.314Ft,	-0.174Ft	60% (21.979Ft) :	0.368Ft
13.649Ft,	-0.161Ft	50% (18.316Ft) :	0.376Ft
9.157Ft,	-0.129Ft	40% (14.652Ft) :	0.350Ft
4.565Ft,	-0.073Ft	30% (10.989Ft) :	0.293Ft
0.000Ft,	0.000Ft	20% (7.326Ft) :	0.214Ft
		10% (3.663Ft) :	0.113Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.098Ft	0.098Ft	0.098Ft

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

Total Seam Lengths (Ft)

Horizontal	68.64
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	255.23	1,2,3,4,5 6,7,8,9,10