

# Mainsail: 8000102 Walter mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000102 Walter\8000102

Initial Design Date: 2/7/2019  
Boat:

Comments:  
tack angle 88.5

Client:

Design Data  
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## Main

### Measurements

Luff geodesic: 5.425m  
 Leech geodesic: 5.935m  
 Foot geodesic: 2.524m  
 Head geodesic: 0.103m  
 Upper width (MUW): 0.456m  
 Three-quarter width (MTW): 0.835m  
 Half width (MHW): 1.500m  
 Quarter width (MQW): 2.059m  
 Foot median: 5.580m  
 ORC Mainsail area: 7.731m?  
 Surface area: 7.882m?  
 Clew height: 0.100m  
 Mast rake: 0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
75.000%	0.475m	0.101m	90.000?	3.751m	4.442m	
50.000%	0.660m	0.111m	90.000?	2.136m	2.961m	
25.000%	0.630m	0.069m	90.000?	0.533m	1.481m	

### Draft Stripes

1, Luff: 1.790m ; Leech: 1.863m ;  
 2, Luff: 3.580m ; Leech: 3.816m ;

### Luff Slides

1, Position: 0.550m  
 2, Position: 1.168m  
 3, Position: 1.786m  
 4, Position: 2.404m  
 5, Position: 3.021m  
 6, Position: 3.639m  
 7, Position: 4.257m  
 8, Position: 4.875m

### Foot Slides

1, Position: 0.500m  
 2, Position: 1.008m  
 3, Position: 1.516m  
 4, Position: 2.024m

### Luff Curve

5.425m, 0.000m  
 4.069m, -0.026m  
 2.712m, -0.035m  
 1.356m, -0.026m  
 0.000m, 0.000m

### Fanned Luff (@ 5.00% [0.126m])

100% (5.425m) : -0.000m  
 90% (4.883m) : 0.008m  
 80% (4.340m) : 0.016m  
 70% (3.798m) : 0.022m  
 60% (3.255m) : 0.024m  
 50% (2.713m) : 0.025m  
 40% (2.170m) : 0.023m  
 30% (1.627m) : 0.019m  
 20% (1.085m) : 0.012m  
 10% (0.543m) : 0.004m  
 0% (0.000m) : 0.000m

### Before BSeam

0.000m  
 0.023m  
 0.045m  
 0.066m  
 0.079m  
 0.083m  
 0.080m  
 0.072m  
 0.053m  
 0.023m  
 0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000m	0.000m	0.013m

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

Total Seam Lengths (m)

Horizontal	6.09
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	7.85	1,2,3,4,5

