

# Mainsail: 8000127 Todd-1 Venture 21 MainV2.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000127 Todd ma

Initial Design Date: 28/2/2024  
Boat:

Comments:

Client:

Design Data  
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## Main

### Measurements

Luff geodesic: 6.388m  
 Leech geodesic: 6.966m  
 Foot geodesic: 2.885m  
 Head geodesic: 0.115m  
 Upper width (MUW): 0.556m  
 Three-quarter width (MTW): 1.009m  
 Half width (MHW): 1.769m  
 Quarter width (MQW): 2.396m  
 Foot median: 6.560m  
 ORC Mainsail area: 10.653m?  
 Surface area: 10.967m?  
 Clew height: 0.100m  
 Mast rake: 0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.500m	0.169m	67.685?	5.107m	5.550m	
60.000%	0.700m	0.221m	67.685?	3.832m	4.162m	
40.000%	0.700m	0.200m	67.685?	2.557m	2.775m	
20.000%	0.700m	0.115m	67.685?	1.282m	1.387m	

### Reefing Points

1, Luff: 0.849m ; Leech: 0.895m ; Offset: 0.000m ; Number Eyelets: 3  
 2, Luff: 1.756m ; Leech: 1.853m ; Offset: 0.000m ; Number Eyelets: 3

### Draft Stripes

1, Luff: 3.193m ; Leech: 3.333m ;

### Luff Curve

		Fanned Luff (@ 5.00% [0.144m])	Before BSeam
6.388m,	0.000m	100% (6.388m) :	-0.000m
5.592m,	-0.019m	90% (5.749m) :	0.012m
4.791m,	-0.031m	80% (5.110m) :	0.021m
3.988m,	-0.035m	70% (4.472m) :	0.026m
3.194m,	-0.035m	60% (3.833m) :	0.027m
2.380m,	-0.032m	50% (3.194m) :	0.027m
1.597m,	-0.026m	40% (2.555m) :	0.025m
0.796m,	-0.015m	30% (1.916m) :	0.021m
0.000m,	0.000m	20% (1.278m) :	0.015m
		10% (0.639m) :	0.007m
		0% (0.000m) :	0.000m

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

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

Total Seam Lengths (m)

Horizontal	11.08
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	10.94	1,2,3,4,5 6,7

