

Mainsail: 8000127 Todd-1 Venture 21 MainV1.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: 20/2/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 6.349m
 Leech geodesic: 6.931m
 Foot geodesic: 2.885m
 Head geodesic: 0.115m
 Upper width (MUW): 0.552m
 Three-quarter width (MTW): 1.003m
 Half width (MHW): 1.764m
 Quarter width (MQW): 2.392m
 Foot median: 6.522m
 ORC Mainsail area: 10.563m?
 Surface area: 10.877m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.500m	0.169m	67.685?	5.075m	5.521m	
60.000%	0.700m	0.221m	67.685?	3.806m	4.141m	
40.000%	0.700m	0.200m	67.685?	2.537m	2.761m	
20.000%	0.700m	0.115m	67.685?	1.269m	1.380m	

Reefing Points

1, Luff: 0.844m ; Leech: 0.890m ; Offset: 0.000m ; Number Eyelets: 3
 2, Luff: 1.745m ; Leech: 1.842m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.174m ; Leech: 3.315m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.144m])	Before BSeam
6.349m,	0.000m	100% (6.349m) :	0.000m -0.000m
5.558m,	-0.015m	90% (5.714m) :	0.010m 0.027m
4.762m,	-0.025m	80% (5.079m) :	0.017m 0.050m
3.964m,	-0.030m	70% (4.444m) :	0.021m 0.064m
3.174m,	-0.030m	60% (3.809m) :	0.023m 0.072m
2.366m,	-0.028m	50% (3.175m) :	0.022m 0.076m
1.587m,	-0.022m	40% (2.540m) :	0.021m 0.073m
0.791m,	-0.013m	30% (1.905m) :	0.017m 0.066m
0.000m,	0.000m	20% (1.270m) :	0.012m 0.051m
		10% (0.635m) :	0.005m 0.028m
		0% (0.000m) :	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	11.01
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	10.86	1,2,3,4,5 6,7

