

Mainsail: 8000127 Todd-1 Venture 21 Main.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\8000127 Todd-1 Venture 21 Main.des

Initial Design Date: 1/2/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	20.830Ft
Leech geodesic:	22.739Ft
Foot geodesic:	9.465Ft
Head geodesic:	0.377Ft
Upper width (MUW):	1.820Ft
Three-quarter width (MTW):	3.308Ft
Half width (MHW):	5.797Ft
Quarter width (MQW):	7.846Ft
Foot median:	21.397Ft
ORC Mainsail area:	113.834Ft ²
Surface area:	117.254Ft ²
Clew height:	0.328Ft
Mast rake:	0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.640Ft	0.573Ft	67.685?	16.650Ft	18.115Ft	
60.000%	2.297Ft	0.745Ft	67.685?	12.487Ft	13.586Ft	
40.000%	2.297Ft	0.656Ft	67.685?	8.325Ft	9.057Ft	
20.000%	2.297Ft	0.379Ft	67.685?	4.164Ft	4.529Ft	

Reefing Points

1, Luff: 2.770Ft ; Leech: 2.921Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

1, Luff: 10.413Ft ; Leech: 10.871Ft ;

Luff Curve

		Fanned Luff (@ 5.00% [0.472Ft])	Before BSeam
20.829Ft,	0.000Ft	100% (20.830Ft) :	-0.000Ft
18.234Ft,	-0.048Ft	90% (18.747Ft) :	0.031Ft
15.622Ft,	-0.083Ft	80% (16.664Ft) :	0.164Ft
13.004Ft,	-0.097Ft	70% (14.581Ft) :	0.213Ft
10.414Ft,	-0.099Ft	60% (12.498Ft) :	0.238Ft
7.761Ft,	-0.092Ft	50% (10.415Ft) :	0.248Ft
5.207Ft,	-0.073Ft	40% (8.332Ft) :	0.241Ft
2.596Ft,	-0.042Ft	30% (6.249Ft) :	0.215Ft
0.000Ft,	0.000Ft	20% (4.166Ft) :	0.166Ft
		10% (2.083Ft) :	0.018Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.082Ft	0.082Ft	0.082Ft

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

Total Seam Lengths (Ft)

Horizontal	36.15
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	117.02	1,2,3,4,5 6,7

