

Mainsail: 8000222 William Tayana 37 fullbat mainV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000222 William T

Initial Design Date: 2/4/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	44.797Ft
Leech geodesic:	46.886Ft
Foot geodesic:	14.603Ft
Head geodesic:	0.377Ft
Upper width (MUW):	2.806Ft
Three-quarter width (MTW):	5.161Ft
Half width (MHW):	9.139Ft
Quarter width (MQW):	12.248Ft
Foot median:	45.728Ft
ORC Mainsail area:	381.373Ft?
Surface area:	390.532Ft?
Clew height:	0.328Ft
Mast rake:	0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	4.422Ft	0.785Ft	73.793?	35.815Ft	37.386Ft	Full
60.000%	7.834Ft	1.112Ft	73.793?	26.857Ft	28.040Ft	Full
40.000%	10.616Ft	1.011Ft	73.793?	17.902Ft	18.693Ft	Full
20.000%	12.811Ft	0.584Ft	73.793?	8.950Ft	9.347Ft	Full

Reefing Points

- 1, Luff: 5.463Ft ; Leech: 5.632Ft ; Offset: 0.000Ft ; Number Eyelets: 3
- 2, Luff: 11.866Ft ; Leech: 12.228Ft ; Offset: 0.000Ft ; Number Eyelets: 3
- 3, Luff: 19.031Ft ; Leech: 19.621Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 14.777Ft ; Leech: 14.933Ft ;
- 2, Luff: 29.557Ft ; Leech: 30.397Ft ;

Luff Slides

- 1, Position: 3.501Ft
- 2, Position: 6.975Ft
- 3, Position: 11.083Ft
- 4, Position: 13.426Ft
- 5, Position: 15.664Ft
- 6, Position: 20.887Ft
- 7, Position: 23.872Ft
- 8, Position: 29.843Ft
- 9, Position: 32.829Ft
- 10, Position: 38.841Ft
- 11, Position: 41.877Ft
- 12, Position: 43.337Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.727Ft])	Before BSeam
44.793Ft,	0.000Ft	100% (44.797Ft) :	0.000Ft
39.211Ft,	-0.163Ft	90% (40.319Ft) :	0.099Ft
33.595Ft,	-0.280Ft	80% (35.838Ft) :	0.406Ft
27.965Ft,	-0.330Ft	70% (31.359Ft) :	0.530Ft
22.396Ft,	-0.336Ft	60% (26.879Ft) :	0.595Ft
16.690Ft,	-0.311Ft	50% (22.399Ft) :	0.609Ft
11.198Ft,	-0.249Ft	40% (17.918Ft) :	0.585Ft
5.582Ft,	-0.141Ft	30% (13.439Ft) :	0.504Ft
0.000Ft,	0.000Ft	20% (8.959Ft) :	0.369Ft
		10% (4.480Ft) :	0.188Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.115Ft	0.115Ft	0.115Ft

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

Total Seam Lengths (Ft)

Horizontal	101.53
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	390.53	1,2,3,4,5 6,7,8,9,10 11,12

