

# Mainsail: 8000607 Dorian-2 Trans World 41 fullbattmizzen.des Fareast Sails

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000607 Dorian T

Initial Design Date: 15/6/2024  
Boat:  
Trans World 41  
Client:  
Fareast Sails

Comments:

Design Data  
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## Main

### Measurements

Luff geodesic: 27.472Ft  
Leech geodesic: 29.150Ft  
Foot geodesic: 10.553Ft  
Head geodesic: 0.377Ft  
Upper width (MUW): 2.062Ft  
Three-quarter width (MTW): 3.736Ft  
Half width (MHW): 6.538Ft  
Quarter width (MQW): 8.796Ft  
Foot median: 27.950Ft  
ORC Mainsail area: 168.505Ft?  
Surface area: 172.237Ft?  
Clew height: 0.422Ft  
Mast rake: 0.000Ft

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	3.287Ft	0.650Ft	71.914?	21.949Ft	23.217Ft	Full
60.000%	5.659Ft	0.851Ft	71.914?	16.450Ft	17.412Ft	Full
40.000%	7.625Ft	0.750Ft	71.914?	10.954Ft	11.608Ft	Full
20.000%	9.228Ft	0.433Ft	71.914?	5.459Ft	5.804Ft	Full

### Reefing Points

1, Luff: 3.350Ft ; Leech: 3.437Ft ; Offset: 0.000Ft ; Number Eyelets: 2  
2, Luff: 7.277Ft ; Leech: 7.454Ft ; Offset: 0.000Ft ; Number Eyelets: 2

### Draft Stripes

1, Luff: 9.062Ft ; Leech: 9.073Ft ;  
2, Luff: 18.126Ft ; Leech: 18.694Ft ;

### Luff Slides

1, Position: 1.820Ft  
2, Position: 4.091Ft  
3, Position: 6.910Ft  
4, Position: 9.122Ft  
5, Position: 12.786Ft  
6, Position: 14.618Ft  
7, Position: 18.283Ft  
8, Position: 20.116Ft  
9, Position: 23.790Ft  
10, Position: 25.631Ft

### Luff Curve

		Fanned Luff (@ 5.00% [0.526Ft])	Before BSeam
27.471Ft,	0.000Ft	100% (27.472Ft) :	-0.000Ft
24.048Ft,	-0.063Ft	90% (24.726Ft) :	0.114Ft
20.603Ft,	-0.109Ft	80% (21.978Ft) :	0.210Ft
17.150Ft,	-0.128Ft	70% (19.231Ft) :	0.275Ft
13.735Ft,	-0.131Ft	60% (16.483Ft) :	0.312Ft
10.236Ft,	-0.121Ft	50% (13.736Ft) :	0.323Ft
6.868Ft,	-0.097Ft	40% (10.989Ft) :	0.313Ft
3.423Ft,	-0.055Ft	30% (8.242Ft) :	0.272Ft
0.000Ft,	0.000Ft	20% (5.494Ft) :	0.200Ft
		10% (2.748Ft) :	0.102Ft
		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	50.04
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft <sup>2</sup> )	Panels
Material 1	171.91	1,2,3,4,5 6,7,8

