

# Mainsail: 8000405 Tim-1 Wylie 38 Mainsail.des

Design Info  
=====

Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000405 Tim Wylie

Initial Design Date: 11/4/2024  
Boat:  
Wylie 38  
Client:

Comments:  
tack angle 88.5 deg

Design Data  
=====

Main

Measurements

Luff geodesic: 12.900m  
Leech geodesic: 13.499m  
Foot geodesic: 4.180m  
Head geodesic: 0.135m  
Upper width (MUW): 0.856m  
Three-quarter width (MTW): 1.536m  
Half width (MHW): 2.643m  
Quarter width (MQW): 3.505m  
Foot median: 13.168m  
ORC Mainsail area: 31.769m?  
Surface area: 32.556m?  
Clew height: -0.253m  
Mast rake: 0.407m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.235m	0.266m	73.960?	10.572m	11.032m	Full
62.000%	2.206m	0.355m	73.960?	7.994m	8.341m	Full
42.000%	1.200m	0.306m	73.960?	5.415m	5.650m	
22.000%	1.050m	0.181m	73.960?	2.837m	2.960m	

Reefing Points

1, Luff: 1.702m ; Leech: 1.754m ; Offset: 0.000m ; Number Eyelets: 3  
2, Luff: 3.546m ; Leech: 3.652m ; Offset: 0.000m ; Number Eyelets: 3  
3, Luff: 6.448m ; Leech: 6.646m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 4.255m ; Leech: 4.389m ;  
2, Luff: 8.512m ; Leech: 8.791m ;

Luff Slides

1, Position: 1.022m  
2, Position: 2.117m  
3, Position: 2.864m  
4, Position: 3.931m  
5, Position: 4.664m  
6, Position: 5.395m  
7, Position: 6.195m  
8, Position: 7.151m  
9, Position: 8.865m  
10, Position: 9.723m  
11, Position: 11.353m  
12, Position: 12.127m

Luff Curve

		Fanned Luff (@ 5.00% [0.208m])	Before BSeam
12.899m,	0.000m	100% (12.900m) :	0.000m
11.292m,	-0.043m	90% (11.610m) :	0.026m
9.674m,	-0.074m	80% (10.320m) :	0.112m
8.053m,	-0.087m	70% (9.030m) :	0.146m
6.449m,	-0.089m	60% (7.740m) :	0.163m
4.806m,	-0.082m	50% (6.450m) :	0.166m
3.225m,	-0.066m	40% (5.160m) :	0.158m
1.607m,	-0.037m	30% (3.870m) :	0.135m
0.000m,	0.000m	20% (2.580m) :	0.099m
		10% (1.290m) :	0.051m
		0% (0.000m) :	0.000m

# Mainsail: 8000405 Tim-1 Wylie 38 Mainsail.des

## Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.032m	0.016m	0.040m
Zone: 1/b	0.032m	0.016m	0.040m
Zone: 2/a	0.032m	0.016m	0.040m
Zone: 2/b	0.032m	0.016m	0.040m
Zone: 3	0.032m	0.016m	0.040m

## Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	5.42
Radial/Vertical	130.37
Bi-Radial Split	8.88

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	32.58	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,2\1 2\2,2\3,2\4,2\5,2b\1 2b\2,2b\3,2b\4,2b\5,3\1 3\2,3\3,3\4,3\5,3\6

