

# Mainsail: 8000529 Andy Hunter 30 Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000529 Andy Hunter

Initial Design Date: 14/6/2024  
Boat:  
Hunter 30  
Client:

Comments:

Design Data  
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Main

Measurements

Luff geodesic: 38.097Ft  
Leech geodesic: 39.839Ft  
Foot geodesic: 12.438Ft  
Head geodesic: 0.377Ft  
Upper width (MUW): 2.345Ft  
Three-quarter width (MTW): 4.277Ft  
Half width (MHW): 7.584Ft  
Quarter width (MQW): 10.262Ft  
Foot median: 38.862Ft  
ORC Mainsail area: 271.783Ft?  
Surface area: 278.036Ft?  
Clew height: 0.328Ft  
Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	3.671Ft	0.615Ft	73.834?	30.461Ft	31.802Ft	Full
60.000%	6.487Ft	0.854Ft	73.834?	22.844Ft	23.852Ft	Full
40.000%	8.819Ft	0.753Ft	73.834?	15.228Ft	15.901Ft	Full
20.000%	10.773Ft	0.435Ft	73.834?	7.613Ft	7.951Ft	Full

Reefing Points

1, Luff: 4.646Ft ; Leech: 4.789Ft ; Offset: 0.000Ft ; Number Eyelets: 3  
2, Luff: 10.093Ft ; Leech: 10.399Ft ; Offset: 0.000Ft ; Number Eyelets: 3

Draft Stripes

1, Luff: 12.569Ft ; Leech: 12.704Ft ;  
2, Luff: 25.139Ft ; Leech: 25.849Ft ;

Luff Slides

1, Position: 2.976Ft  
2, Position: 5.906Ft  
3, Position: 9.513Ft  
4, Position: 12.690Ft  
5, Position: 17.766Ft  
6, Position: 20.305Ft  
7, Position: 25.383Ft  
8, Position: 27.922Ft  
9, Position: 33.007Ft  
10, Position: 35.552Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.620Ft])	Before BSeam
38.096Ft,	0.000Ft	100% (38.097Ft) :	0.000Ft
33.349Ft,	-0.088Ft	90% (34.288Ft) :	0.137Ft
28.572Ft,	-0.151Ft	80% (30.478Ft) :	0.257Ft
23.783Ft,	-0.178Ft	70% (26.668Ft) :	0.339Ft
19.048Ft,	-0.181Ft	60% (22.858Ft) :	0.385Ft
14.195Ft,	-0.168Ft	50% (19.049Ft) :	0.397Ft
9.524Ft,	-0.134Ft	40% (15.239Ft) :	0.381Ft
4.747Ft,	-0.076Ft	30% (11.429Ft) :	0.329Ft
0.000Ft,	0.000Ft	20% (7.619Ft) :	0.246Ft
		10% (3.810Ft) :	0.132Ft
		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	74.78
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft <sup>2</sup> )	Panels
Material 1	277.76	1,2,3,4,5 6,7,8,9,10 11

