

Mainsail: 8000227 Eric Hunter 30 MainsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000227 Eric Hunter

Initial Design Date: 5/3/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	10.284m
Leech geodesic:	10.635m
Foot geodesic:	2.918m
Head geodesic:	0.115m
Upper width (MUW):	0.608m
Three-quarter width (MTW):	1.083m
Half width (MHW):	1.849m
Quarter width (MQW):	2.457m
Foot median:	10.388m
ORC Mainsail area:	17.764m ²
Surface area:	18.055m ²
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.943m	0.200m	76.166?	8.222m	8.491m	Full
60.000%	1.598m	0.260m	76.166?	6.166m	6.369m	Full
40.000%	2.135m	0.230m	76.166?	4.110m	4.246m	Full
20.000%	2.570m	0.133m	76.166?	2.055m	2.123m	Full

Reefing Points

- 1, Luff: 1.254m ; Leech: 1.278m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 2.724m ; Leech: 2.777m ; Offset: 0.000m ; Number Eyelets: 3
- 3, Luff: 4.370m ; Leech: 4.457m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 3.393m ; Leech: 3.399m ;
- 2, Luff: 6.786m ; Leech: 6.904m ;

Luff Slides

- 1, Position: 0.685m
- 2, Position: 1.531m
- 3, Position: 2.593m
- 4, Position: 3.425m
- 5, Position: 4.796m
- 6, Position: 5.481m
- 7, Position: 6.852m
- 8, Position: 7.537m
- 9, Position: 8.910m
- 10, Position: 9.597m

Foot Slides

- 1, Position: 0.400m
- 2, Position: 0.917m
- 3, Position: 1.434m
- 4, Position: 1.951m
- 5, Position: 2.468m

Luff Curve

10.284m,	0.000m
9.002m,	-0.024m
7.713m,	-0.041m
6.420m,	-0.048m
5.142m,	-0.049m
3.832m,	-0.045m
2.571m,	-0.036m
1.281m,	-0.021m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.146m])

100% (10.284m) :	0.000m	-0.000m
90% (9.256m) :	0.015m	0.035m
80% (8.227m) :	0.028m	0.064m
70% (7.199m) :	0.034m	0.083m
60% (6.170m) :	0.037m	0.092m
50% (5.142m) :	0.037m	0.095m
40% (4.114m) :	0.035m	0.092m
30% (3.085m) :	0.030m	0.082m
20% (2.057m) :	0.021m	0.063m
10% (1.028m) :	0.011m	0.035m
0% (0.000m) :	0.000m	0.000m

Before BSeam

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.025m	0.025m	0.025m

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

Total Seam Lengths (m)

Horizontal	16.76
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	18.04	1,2,3,4,5 6,7,8,9,10

